



**OFFICE OF THE
PROJECT ENGINEER REHABILITATION OF NON-FUNCTIONAL
WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH**

Barrack No.94 apposite Sindh Assembly Building Karachi

No: PE/Rehb:/ **225** of /2017, Karachi Dated: **28 / 12 / 2017**

NOTICE FOR INVITING TENDERS

Sealed Tenders for the following works on SPPRA Standard Bidding documents are Invited from the Bidders / Firms meeting eligibility as per Sindh Public Procurement Regulatory Authority Rules 2010 ammended 2013.

| S.# | Name of Work | Estimated Cost (in Million) | 2% Bid Security | Tender Fee | Time of Completion |
|------------------------------------|-----------------------------------------------------------------|--------------------------------|--------------------|------------|-----------------------|
| <u>DISTRICT HYDERABAD</u> | | | | | |
| 1. | Rehabilitation of Water Supply Scheme Tando Ghulam Hyder. | 22.000 | 2% As per Bid Cost | 4000 | 12 Months |
| 2. | Rehabilitation of Water Supply Scheme Tando Ghulam Mohammad. | 15.000 | 2% As per Bid Cost | 3000 | 12 Months |
| 3. | Rehabilitation of Water Supply Scheme Sahib Khan Mirani. | 5.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 4. | Rehabilitation of Water Supply Scheme Mori Shakh. | 5.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 5. | Rehabilitation of Water Supply Scheme Bahawal Zour. | 8.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 6. | Rehabilitation of Water Supply Scheme Mitho Hajano. | 5.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 8 | Rehabilitation of Drainage Scheme Sahib Khan Mirani. | 5.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 9. | Rehabilitation of Drainage Scheme Bahawal Zour. | 13.789 | 2% As per Bid Cost | 3000 | 12 Months |
| 10. | Rehabilitation of Drainage Scheme Hussain Khan Thoro. | 8.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 11. | Rehabilitation of Drainage Scheme Tando Qaisar City. | 13.500 | 2% As per Bid Cost | 3000 | 12 Months |
| 12. | Rehabilitation of Drainage Scheme Tando Fazal. | 15.000 | 2% As per Bid Cost | 3000 | 12 Months |
| <u>DISTRICT BADIN</u> | | | | | |
| 1. | Rehabilitation of Water Supply Scheme Manik Behrani. | 9.000 | 2% As per Bid Cost | 2000 | 12 Months |
| <u>DISTRICT MIRPURKHAS.</u> | | | | | |
| 1. | Rehabilitation of Water Supply Scheme Saindad Aliyani. | 2.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 2. | Rehabilitation of Water Supply Scheme Mohsin Raza farm. | 8.500 | 2% As per Bid Cost | 2000 | 12 Months |
| 3. | Rehabilitation of Water Supply Scheme Haji Mohammad Bux Narejo. | 2.100 | 2% As per Bid Cost | 2000 | 12 Months |
| 4. | Rehabilitation of Water Supply Scheme Bachal Chang. | 8.950 | 2% As per Bid Cost | 2000 | 12 Months |

| S.# | Name of Work | Estimated Cost (in Million) | 2% Bid Security | Tender Fee | Time of Completion |
|---------------------------------------------|-------------------------------------------------------------------|-----------------------------|--------------------|------------|--------------------|
| 5. | Rehabilitation of Drainage Scheme Haji Ahmed Bux Narejo. | 5.800 | 2% As per Bid Cost | 2000 | 12 Months |
| 6. | Rehabilitation of Drainage Scheme Deh-94. | 5.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 7. | Rehabilitation of Drainage Scheme Kalwari. | 5.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 8. | Rehabilitation of Drainage Scheme Phuladyoon. | 14.550 | 2% As per Bid Cost | 3000 | 12 Months |
| <u>DISTRICT KARACH.</u> | | | | | |
| 1. | Rehabilitation of Water Supply Scheme Haji Jamarao Bux | 11.670 | 2% As per Bid Cost | 3000 | 12 Months |
| 2. | Rehabilitation of Water Supply Scheme Phull Goth. | 9.330 | 2% As per Bid Cost | 2000 | 12 Months |
| 3. | Rehabilitation of Water Supply Scheme Saleh Mohammad Juma Goth. | 4.620 | 2% As per Bid Cost | 2000 | 12 Months |
| <u>DISTRICT THATTA.</u> | | | | | |
| 1. | Rehabilitation of Water Supply Scheme Hassan Khan Palijo. | 5.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 2. | Rehabilitation of Water Supply Scheme Gujjo. | 4.000 | 2% As per Bid Cost | 2000 | 12 Months |
| 3. | Rehabilitation of Water Supply Scheme Haji Noor Muhammad Thaheem. | 13.000 | 2% As per Bid Cost | 3000 | 12 Months |
| <u>DISTRICT SUJAWAL.</u> | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Dargah Shah Yaqeeq. | 20.000 | 2% As per Bid Cost | 3000 | 12 Months |
| <u>DISTRICT NOUSHEHRO FEROZE.</u> | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Soomar Channar. | 10.000 | 2% As per Bid Cost | 3000 | 12 Months |
| <u>DISTRICT KHAIRPUR.</u> | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Jalooji. | 15.000 | 2% As per Bid Cost | 3000 | 12 Months |
| 2 | Rehabilitation of Drainage Scheme Nau Goth Pathano. | 20.000 | 2% As per Bid Cost | 4000 | 12 Months |
| <u>DISTRICT KASHMORE @ KANDHKOT.</u> | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Ali Baig Noonari. | 20.000 | 2% As per Bid Cost | 4000 | 12 Months |

The Blank Tender forms can be obtained from office of the undersigned on any working day during office hours upto 01:00 pm of 29-01-2018 on payment of tender fee, specified against each work.

The Tender will be received back on 30-01-2018 upto 01.00 pm and opened on the same day at 2.00 pm in presence of the contractors or their authorized agents before Procurement Committee in this office. If the undersigned is out of Head Quarter, the tender will be opened on next working day. Earnest Money shall be in favour of Project Engineer, Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh. The documents will be required as per SPPRA Rules; otherwise the tender will not be entertained without 2% of Bid Cost.

The Bidders who will provide following documents / information are eligible to participate as per SPPRA Rules 2010 amended 2013.

- i. Valid Registration Certificate of Pakistan Engineering Council, for the tender amount and relevant nature of work Category CE-09 & CE-10 for the year 2017-18.
- ii. Full Name, permanent Address, Telephone and Fax Number, E-Mail & the Organizational structure.
- iii. List, Scope and approximate cost of works in hand.
- iv. Financial stability certificate issued by a scheduled Bank 3 year's turnout.
- v. Affidavit that the Bidder has not been black listed by any Government / Semi Government / Autonomous Body.
- vi. NTN Certificate from FBR including CNIC.
- vii. SBR Certificate from Sindh Board of Revenue.
- viii. Experience Certificate of similar nature of work completed during last 03 years.


**That the Tender Documents shall be issued to the Bidders, who fulfill the criteria mentioned in the NIT.
Received Date & Time 2nd Attempt**

In case of un-responded tenders or any other fact the next date of issue will be upto 01:00 pm of 14-02-2018 & will be received back on 15-02-2018 at 1.00 pm and opened at 2.00 pm," on the same day. In case of ublic Holiday, the bids shall be submitted and opened as per schedule on the next working day" or intimated Local Corrigendum on the Notice Board, respectively at same time with similar conditions. Earnest Money shall be in favour of Project Engineer, Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh. The documents will be required as per SPPRA Rules; otherwise the tender will not be entertained without 2% of Bid Cost. The contractors are not allowed to with draw their earnest money till the period as specified in agreement is exhausted. The programme for un-responded works will be as under.

Conditional or Telegraphic Tenders will not be entertained

"The Procuring Agency may reject all or any bids subjected to the relevant provisions of SPPRA Rules 2010 amended 2013"

The work order of the successful contract will be issued on receipt of funds from the Government.


(SOHAIL AHMED MEMON)
PROJECT ENGINEER
REHABILITATION OF NON-FUNCTIONAL
WATER SUPPLY AND DRAINAGE SCHEMES
IN SINDH

Copy forwarded with compliments for his kind information to:-

1. The Secretary, Public Health Engineering & Rural Development Department Government of Sindh Karachi for his kind information.
2. The Chief Engineer, Public Health Engineering Department Government of Sindh Hyderabad / Sukkur for his kind information.
3. The Executive Engineer, P.H.E.Division, Hyderabad, Badin, Mirpurkhas, Karachi, Thatta, Sujawal, Noushehro Feroze, Khairpur & Kashmore @ Kandhkot for information.
3. The Director, Information Public Relation Department Government of Sindh, Block No.96 Sindh Secretariat Karachi along with (7) Seven Copies for publication in at least three languages leading news papers, i.e. Sindhi, Urdu & English.
4. The Director (C.B) Sindh Public Procurement Regulatory Authority (SPPRA) Government of Sindh Barrack No.08 Secretariat No.04-A, Court Road Karachi. Along with demand draft No. _____ amounting to Rs.2000/- in the name of Director (A&F) SPPRA Government of Sindh.
5. Copy to Notice Board for Local Publicity.
6. Copy to office file.

(Annexure-A)

PROCUREMENT PLAN (Development)

| Serial No/ ADP No: | Name of Scheme & Estimated Cost | Allocated Funds | Cost of ongoing works (Expenditure already incurred) | Funds ongoing works | Cost of new works (components) | Funds for New works | Nature of Procurement | Method of Procurement | Anticipated / Actual Date of Advertisement | Anticipated/ Actual Date of Start | Anticipated/ Actual Date of Completion |
|--------------------|-----------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------|---------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|----------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | 400.00 | 425.000 | 250.0 | | | | | | | |
| | DISTRICT HYDERABAD | | | | | | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Tando Ghulam Hyder Taluka & District Hyderabad | | | | (Rs. 22.00 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 11.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 2 | Rehabilitation of Water Supply Scheme Tando Ghulam Muhammad Taluka & District Hyderabad | | | | (Rs.15.00 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 7.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 3 | Rehabilitation of Water Supply Scheme Sahib Khan Marani Taluka & District Hyderabad | | | | (Rs.5.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 2.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 4 | Rehabilitation of Water Supply Scheme Mori Shakh Taluka & District Hyderabad | | | | (Rs.5.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 2.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 5 | Rehabilitation of Water Supply Scheme Bahawal Zour Taluka & District Hyderabad | | | | (Rs.8.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 4.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 6 | Rehabilitation of Water Supply Scheme Mitho Hajano Taluka & District Hyderabad | | | | (Rs.5.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 2.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 8 | Rehabilitation of Drainage Scheme Sahib Khan Mrani Taluka & District Hyderabad | | | | (Rs.5.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 2.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |

| Serial No/ ADP No: | Name of Scheme & Estimated Cost | Allocated Funds | Cost of ongoing works (Expenditure already incurred) | Funds ongoing works | Cost of new works (components) | Funds for New works | Nature of Procurement | Method of Procurement | Anticipated / Actual Date of Advertisement | Anticipated/ Actual Date of Start | Anticipated/ Actual Date of Completion |
|--------------------|---------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------|---------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|----------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | 400.00 | 425.000 | 250.0 | | | | | | | |
| 9 | Rehabilitation of Drainage Scheme Bahawal Zour Taluka & District Hyderabad | | | | (Rs.13.789 M) 1Repair / Rehabilitation of all Civil Structure & Mechanical work. | 7.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 10 | Rehabilitation of Drainage Scheme Hussain Khan Thoro Taluka & District Hyderabad | | | | (Rs.8.000 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 4.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 11 | Rehabilitation of Drainage Scheme Tando Qasir City Taluka & District Hyderabad | | | | (Rs.13.500 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 6.800 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 12 | Rehabilitation of Drainage Scheme Tando Fazal Taluka & District Hyderabad | | | | (Rs.15.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 7.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| | <u>DISTRICT BADIN</u> | | | | | | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Maink Behrani Taluka & District Badin | | | | (Rs.9.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 4.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| | <u>DISTRICT MIRPURKHAS</u> | | | | | | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Saindad Aliyani Taluka & District Mirpur Khas | | | | (Rs.2.000 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 2.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 2 | Rehabilitation of Water Supply Scheme Moshin Raza Farm Taluka & District Mirpur Khas | | | | (Rs.8.500 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 4.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| 3 | Rehabilitation of Water Supply Scheme Haji Muhammad Bux Narejo Taluka & District Mipur Khas | | | | (Rs.2.100 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 1.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |

| Serial No/ ADP No: | Name of Scheme & Estimated Cost | Allocated Funds | Cost of ongoing works (Expenditure already incurred) | Funds ongoing works | Cost of new works (components) | Funds for New works | Nature of Procurement | Method of Procurement | Anticipated / Actual Date of Advertisement | Anticipated/ Actual Date of Start | Anticipated/ Actual Date of Completion |
|--------------------|-------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------|---------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|----------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | 400.00 | 425.000 | 250.0 | | | | | | | |
| | <u>DISTRICT THATTA.</u> | | | | | | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Hassan Khan Pelijo Taluka & District Thatta | | | | (Rs.5.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 2.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work | 01-2019 |
| 2 | Rehabilitation of Water Supply Scheme Gujjo Taluka & District Thatta | | | | (Rs.4.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 2.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work | 01-2019 |
| 3 | Rehabilitation of Water Supply Scheme Haji Noor Muhammad Thaheem Taluka & District Thatta | | | | (Rs.13.000 M) Repair / Rehabilitation of all Civil Structure & Mechanical work. | 6.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| | <u>DISTRICT SUJAWAL.</u> | | | | | | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Dragah Shah Yaqeeq Taluka & District Sujawal | | | | (Rs.20.000 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 10.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| | <u>DISTRICT N.FEROZE.</u> | | | | | | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Soomar Channar Taluka & District Noushero Feroze | | | | (Rs.10.000 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 5.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| | <u>DISTRICT KHAIRPUR.</u> | | | | | | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Jalooji Taluka & District Khairpur | | | | (Rs.15.000 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 7.500 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |

| Serial No/ ADP No: | Name of Scheme & Estimated Cost | Allocated Funds | Cost of ongoing works (Expenditure already incurred) | Funds ongoing works | Cost of new works (components) | Funds for New works | Nature of Procurement | Method of Procurement | Anticipated / Actual Date of Advertisement | Anticipated/ Actual Date of Start | Anticipated/ Actual Date of Completion |
|--------------------|-------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|---------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|----------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | 400.00 | 425.000 | 250.0 | | | | | | | |
| 2 | Rehabilitation of Drainage Scheme Nau Goth Pathano Taluka & District Khairpur | | | | (Rs.20.000 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 10.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |
| | <u>DISTRICT KASHMORE @ KANDHKOT</u> | | | | | | | | | | |
| 1 | Rehabilitation of Water Supply Scheme Ali Baig Noonari District Kashmore @ Kandhkot | | | | (Rs.20.000 M). Repair / Rehabilitation of all Civil Structure & Mechanical work. | 10.000 | Execution of Rehabilitation work | Single stage Envelope | 11-01-2018 | After issue of work order | 01-2019 |



PROJECT ENGINEER
REHABILITATION OF NON-FUNCTIONAL WATER
SUPPLY AND DRAINAGE SCHEMES
IN SINDH

ANNEXURE-II
PROCUREMENT PLAN (Non-Development)

| S. No | Found Head & Sub head | Name of work and break up | Allocated Found and break up for different locations/sites | Items to be executed | Method of Procurement | Anticipated/Actual of Advertisement | Anticipated/Actual Date of Start | Anticipated/Actual Date of Completion | Remarks |
|-------|-----------------------|---------------------------|------------------------------------------------------------|----------------------|-----------------------|-------------------------------------|----------------------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

-----NIL-----



PROJECT ENGINEER
REHABILITATION OF NON-FUNCTIONAL
WATER SUPPLY AND DRAINAGE SCHEMES
IN SINDH



GOVERNMENT OF SINDH
PUBLIC HEALTH ENGINEERING &
RURAL DEVELOPMENT DEPARTMENT

Karachi dated the, 21st August, 2017

NOTIFICATION

No.SO(T)/PHE/SPPRA-RULES/2013/(Pt-II): In exercise of powers conferred by Rule-7 of SPP Rules-2010 a procurement committee for PHE Division Matiari which was earlier constituted under this department's notification of even number dated 27.01.2017 at serial # 5 is hereby re-constituted as under:

Executive Engineer,
Public Health Engineering Division,
Matiari

CHAIRMAN

Executive Engineer,
Education Works Division,
Matiari

MEMBER

Section Officer (Admn),
Public Health Engineering Department

MEMBER


Terms of reference/functions of the committee:

1. Preparing bidding documents,
2. Carrying out technical as well as financial evaluation of the bids,
3. Preparing evaluation report as provided in Rule-45,
4. Making recommendations for the award of contract to the competent authority, & Perform any other function ancillary and incidental to the above.

(TAMEEZUDDIN KHERO)
Secretary

Cc:

- The Secretary, Education Department, Govt. of Sindh, Karachi
- The Chief Engineer, PHED, Hyderabad.
- The Managing Director, SPPRA, Karachi.
- The Executive Engineer, PHE Div. Matiari
- The Executive Engineer, Education Works Division, Matiari
- The Section Officer (Admn), PHED.
- PS to Secretary, PHE & RDD, Govt: of Sindh, Karachi.


(MUHAMMAD BUX JARWAR)
Section Officer (Technical)



GOVERNMENT OF SINDH
PUBLIC HEALTH ENGINEERING &
RURAL DEVELOPMENT DEPARTMENT

Karachi dated the, 08th February, 2017

NOTIFICATION

No.SO(T)/PHE/SPP-RULES/2010: In exercise of the powers conferred by Rule-31 of SPP Rules-2010, a complaint redressal committee is hereby constituted for the project, " Rehabilitation of Non-functional Water Supply and Drainage Schemes in Sindh", as under:

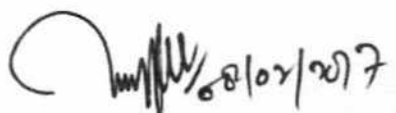
- | | | |
|------|------------------------------------------------------------------------------------|----------|
| i. | Project Director, Rehabilitation of Non-functional Water Supply & Drainage Schemes | Chairman |
| iii. | Representative of A.G Sindh | Member |
| iv. | Independent Professional Expert to be nominated by PHED | Member |

The committee shall act in accordance with SPP Rules-2010.

(TAMEEZUDDIN KHERO)
Secretary

Cc:

- The Chief Engineer, PHED, Hyderabad Sukkur.
- The Managing Director, SPPRA, Karachi.
- The Accountant General, Sindh, Karachi.
- The PS to Secretary, PHE & RDD, Govt. of Sindh, Karachi.


(MUHAMMAD BUX JARWAR)
Section Officer (Technical)

SPPRA BIDDING DOCUMENT

STANDARD FORM OF BIDDING DOCUMENT

FOR

PROCUREMENT OF WORKS

(For Contracts (Small) amounting between Rs.2.5 million to
Rs.50 million)

INSTRUCTIONS TO PROCURING AGENCIES

INSTRUCTIONS TO PROCURING AGENCIES
(Not to be included in Bidding Documents)

A. Basis of Documents

These Documents have been prepared as a global document intended to be used by different agencies/users according to their requirements. This document is envisaged for National Competitive Bidding (NCB), meant for use for Works costing not more than Rs. 25 Million. These documents may be tailored according to the scope of works as well as in case of contracts on International Competitive Bidding (ICB) basis, funded by international financial institutions/donors, with payments in foreign currencies. Procuring agencies are then to tailor the relevant clauses to suit their requirements including appropriate modifications in the relevant sections of the documents in the light of SPPRA Bidding Documents for Large Works.

The Procuring Agency is expected to manage the Contract itself. The role of Engineer may be added by the Procuring Agency, if the Procuring Agency wishes to engage a consultant. The role of the Engineer with specific delegated powers under various clauses of Instructions to Bidders such as clarifications of Bid Documents, Amendment of Bid Documents, evaluation of Bids etc. and to administer the Contract under various clauses of Conditions of Contract should have been specified. The Procuring Agency will be required to set out in the specifications and drawings the full scope of work including the extent of design to be done by the Contractor, if any.

B. Contents of Documents

As stated in Clause IB.4 of Instructions to Bidders, the complete Bidding Documents in addition to Invitation for Bids shall comprise items listed therein including any addendum to Bidding Documents issued in accordance with IB.6. The Standard Form of Bidding Documents (for Small Contracts) includes the following:

1. Instructions to Bidders & Bidding Data
2. Form of Bid & Schedules to Bid
3. Conditions of Contract & Contract Data
4. Standard Forms
5. Specifications
6. Drawings, if any

In addition, Instructions to procuring agencies are also provided at various locations of this document within parenthesis or as a Note(s). Procuring agencies are expected to edit or finalise this document accordingly, by filling in all the relevant blank spaces and forms as per the scope of the work, deleting all notes and instructions intended to help the bidders.

The procuring agency is required to prepare the following for completion of the Bidding Documents:

- (i) Invitation for Bids

- (ii) Bidding Data
- (iii) Schedules to Bid (Samples)
- (iv) Schedule of Prices (Format)
- (v) Contract Data
- (vi) Specifications
- (vii) Drawings, if any

The Procuring agency's attention is drawn to the following while finalizing the Bidding Documents.

C. Notice Inviting Tender/ Invitation for Bids/ Request for Expression of Interest

The —Notice Inviting Tender/ is meant for publication of tenders for calling bids in the newspapers and SPPRA Website.

The blank spaces wherever shown are required to be filled by the Procuring Agency before issuance of Bidding Documents.

The Procuring Agency may modify para 1 of Notice Inviting Tender as per its requirements. The notice should be published so as to give the interested bidders sufficient working period for preparation and submission of bids – not less than 15 days for National Competitive Bidding and 45 days for International Competitive Bidding (SPP Rule 18).

1. The eligible bidders are defined in IB.2; the text can be amended by the Procuring Agency as deemed appropriate.
2. The non-refundable fee for the sale of Bidding Documents should be nominal so as to cover printing/reproduction and mailing costs and to ensure that only bona-fide bidders shall apply (SPP Rule 20).
3. The amount of Bid Security should be a lump sum figure or a percentage, but not less than 1% and more than 5% of bid price and should be in accordance with IB.13.1 (SPP Rule 37).
4. If the venue of receipt of bids and the opening of bids is the same, the times for receipt and opening of bids are to be entered in last Para of the Notice Inviting Tender, otherwise indicate the name, address and exact location for the opening of bids. However the date for the receipt and the opening of bids shall be same (SPP Rule 41).

D. Instructions to Bidders

These Instructions to Bidders will not be part of Contract and will cease to have effect once the Contract is signed along with Bidding Data.

The Instructions to Bidders can be used as given. Procuring agency may have to make changes under Bidding Data.

The Procuring Agency's or Engineer's Representative, if any, shall exercise powers of the Engineer/Procuring Agency under and in connection with Clauses IB.5, IB.6, IB.16, etc. In

case an Engineer has been appointed by the Procuring Agency, the aforesaid clauses may be modified accordingly to specify the role of the Engineer by the Procuring Agency, otherwise the Engineer's reference wherever exist, except Sub-Clause 1.1.20 & Clause 15 of Conditions of Contract and Item 1.1.20 of Contract Data, shall be deleted.

E. Bidding Data

The blank spaces wherever shown in Bidding Data are required to be filled by the Engineer/Procuring Agency before issuance of Bidding Documents.

1. Contents of IB.10.3 may be retained or modified by the Procuring Agency.
2. Procuring Agency should insert required experience in IB.11.2.
3. Referring to IB.14.1, the period of bid validity may range from 30 to 90 days depending upon the size and nature of the works. Number of days shall be filled in as per Procuring Agency's requirements.
4. Contents of IB.16.3 to IB.16.8 may be retained or modified by the Procuring Agency in accordance with its requirements.

F. Schedules to Bid

Specimen of Schedules to Bid including format of Schedule of Prices are provided in this document. The Procuring Agency may add/delete/modify as per its requirement.

The blank spaces wherever shown are required to be filled by the Engineer/Procuring Agency before issuance of Bidding Documents except those required to be provided by the Contractor.

G. Conditions of Contract

The procuring agency while preparing Contract Data, shall ensure that no Clause of Conditions of Contract is deleted and that the changes included in Contract Data shall be such as not to change the spirit of the document. Any adjustment or change in clauses of Conditions of Contract to meet specific project features shall be made with care and incorporated in Contract Data.

H. Contract Data

The blank spaces wherever shown are required to be filled by the Engineer/Procuring Agency before issuance of Bidding Documents.

1. Referring to Sub-Clause 1.1.1 of Conditions of Contract, the Engineer/Procuring Agency may add, in order of priority, such other documents as to form part of the Contract, in Sub-Clause 1.3 of the Contract Data.
2. The Procuring Agency's Representative, if any, shall exercise powers of the Procuring Agency under and in connection with Sub-Clauses 1.3, 2.3, 4.2, 4.3, 5.1, 7.3, 8.2, 9.1, 9.2, 10.1, 10.2, 10.5, 11.1, 11.5, 12.1, 13.2 and 14.1 of the Conditions of Contract. In case an Engineer has been appointed by the Procuring Agency, the aforesaid clauses may be modified accordingly by the Procuring Agency.

3. The sum insured for different insurances including minimum amount of third party insurance should be assessed by the Engineer/Procuring Agency and entered in Contract Data. Such insurance cover shall be carried out with Insurance Company having at least AA rating from PACRA / JCR in the favour of the procuring agency.
4. The time for completion of the whole of the works should be assessed by the Engineer/Procuring Agency and entered in the Contract Data.
5. The Conditions of Contract contain no overall limit on the Contractor's liability. The amount of **liquidated damages** per day of delay shall be entered by the Engineer/Procuring Agency in Contract Data. Usually the liquidated damages are set between **0.05 percent and 0.10 percent per day and the maximum limit as 10 percent of contract price stated in the Letter of Acceptance.**
6. Any amendment and/or additions to the Conditions of the Contract that are specific to a given Bid/Contract should be included by the Procuring agency. This may include but not be limited to the provisions regarding the following:
 - a) Terms of Payment should be prepared and incorporated in Contract Data by the Engineer/Procuring Agency.
 - b) The Engineer/Procuring Agency to make sure that all taxes and duties are included by the Bidders/Contractors in their prices.

I. Specifications

To be prepared and incorporated by the Engineer/Procuring Agency

J. Drawings

To be prepared and incorporated by the Engineer/Procuring Agency, if required.

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INVITATION FOR BIDS

INVITATION FOR BIDS

Date: _____

Bid Reference No.: _____

1. The Procuring Agency, _____ [enter name of the procuring agency], invites sealed bids from interested firms or persons licensed by the Pakistan Engineering Council in the appropriate category(not required for works costing Rs 2.5 million or less) and/or duly pre-qualified(if pre-qualification is done for specific scheme/project) with the Procuring Agency for the Works, _____ [enter title, type and financial volume of work], which will be completed in _____ [enter appropriate time period] days.
2. A complete set of Bidding Documents may be purchased by an interested eligible bidder on submission of a written application to the office given below and upon payment of a non-refundable fee of Rupees _____ (Insert Amount). Bidders may acquire the Bidding Documents from the Office of the Procuring Agency, at _____ (Mailing Address).
3. All bids must be accompanied by a Bid Security in the amount of Rs. _____ (Rupees _____) or _____ percentage of bid price in the form of (pay order / demand draft / bank guarantee) and must be delivered to _____ (Indicate Address and Exact Location) at or before _____ hours, on _____ (Date). Bids will be opened at _____ hours on the same day in the presence of bidders' representatives who choose to attend, at the same address [indicate the address if it differs].

- [Note: 1. Procuring Agency to enter the requisite information in blank spaces.
2. The bid shall be opened within one hour after the deadline for submission of bids.]

**INSTRUCTIONS
TO BIDDERS
&
BIDDING DATA**

Notes on the Instructions to Bidders

This section of the bidding documents should provide the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Agency. It should also give information on bid submission, opening and evaluation, and on the award of contract.

Matters governing the performance of the Contract or payments under the Contract, or matters affecting the risks, rights, and obligations of the parties under the Contract are not normally included in this Section, but rather in the appropriate sections of the *Conditions of Contract* and/or *Contract Data*.

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INSTRUCTIONS TO BIDDERS

(Note: *These Instructions to Bidders (IB) along with Bidding Data will not be part of Contract and will cease to have effect once the Contract is signed.*)

A. GENERAL

IB.1 Scope of Bid & Source of Funds

1.1 Scope of Bid

The Procuring Agency as defined in the Bidding Data (hereinafter called —the Procuring Agency) wishes to receive Bids for the Works summarized in the Bidding Data (hereinafter referred to as —the Works).

Bidders must quote for the complete scope of work. Any Bid covering partial scope of work will be rejected as non-responsive.

1.2 Source of Funds

The Procuring Agency has arranged funds from its own sources or *Federal/ Provincial /Donor agency or any other source*, which may be indicated accordingly in bidding data towards the cost of the project/scheme.

IB.2 Eligible Bidders

2.1 Bidding is open to all firms and persons meeting the following requirements:

- a) duly licensed by the Pakistan Engineering Council (PEC) in the appropriate category for value of works.

Provided that the works costing Rs. 2.5 million or less shall not require any registration with PEC .

- b) duly pre-qualified with the Procuring Agency. (*Where required*).

In the event that prequalification of potential bidders has been undertaken, only bids from prequalified bidders will be considered for award of Contract.

- c) if prequalification has not undertaken , the procuring agency may ask information and documents not limited to following:-
 - (i) company profile;
 - (ii) works of similar nature and size for each performed in last 3/5 years;
 - (iii) construction equipments;
 - (iv) qualification and experience of technical personnel and key site management;

- (v) financial statement of last 3 years;
- (vi) information regarding litigations and abandoned works if any.

IB.3 Cost of Bidding

- 3.1 The bidder shall bear all costs associated with the preparation and submission of its bid and the Procuring Agency will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process (SPP Rules 24 & 25).

B. BIDDING DOCUMENTS

IB.4 Contents of Bidding Documents

- 4.1 In addition to Invitation for Bids, the Bidding Documents are those stated below, and should be read in conjunction with any Addendum issued in accordance with Sub-Clause IB.6.1.

1. Instructions to Bidders & Bidding Data
2. Form of Bid, Qualification Information & Schedules to Bid Schedules to Bid comprise the following:
 - (i) Schedule A: Schedule of Prices/ Bill of Quantities (BoQ).
 - (ii) Schedule B: Specific Works Data
 - (iii) Schedule C: Works to be Performed by Subcontractors
 - (iv) Schedule D: Proposed Programme of Works
 - (v) Schedule E: Method of Performing Works
 - (vi) Schedule F: Integrity Pact (works costing Rs 10 million and above)
3. Conditions of Contract & Contract Data
4. Standard Forms:
 - (i) Form of Bid Security,
 - (ii) Form of Performance Security;
 - (iii) Form of Contract Agreement;
 - (iv) Form of Bank Guarantee for Advance Payment.
5. Specifications
6. Drawings, if any

IB.5 Clarification of Bidding Documents

- 5.1 A prospective bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Engineer/Procuring Agency at the Engineer's/ Procuring Agency's address indicated in the Bidding Data.
- 5.2 An interested bidder, who has obtained bidding documents, may request for clarification

of contents of bidding documents in writing and procuring agency shall respond to such queries in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of bid (SPP Rule 23-1).

IB.6 Amendment of Bidding Documents (SPP Rules 22(2) & 22).

- 6.1 At any time prior to the deadline for submission of Bids, the Procuring Agency may, for any reason, whether at his own initiative or in response to a clarification requested by a interested bidder, modify the Bidding Documents by issuing addendum.
- 6.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 6.1 hereof, and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective bidders shall acknowledge receipt of each addendum in writing to the Procuring Agency.
- 6.3 To afford interested bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Agency may at its discretion extend the deadline for submission of Bids.

C. PREPARATION OF BIDS

IB.7 Language of Bid

- 7.1 All documents relating to the Bid shall be in the language specified in the Contract Data.

IB.8 Documents Comprising the Bid

- 8.1 The Bid submitted by the bidder shall comprise the following:
 - (a) Offer /Covering Letter
 - (b) Form of Bid duly filled, signed and sealed, in accordance with IB.14.3.
 - (c) Schedules (A to F) to Bid duly filled and initialed, in accordance with the instructions contained therein & in accordance with IB.14.3.
 - (d) Bid Security furnished in accordance with IB.13.
 - (e) Power of Attorney in accordance with IB 14.5.
 - (f) Documentary evidence in accordance with IB.2(c) & IB.11
 - (g) Documentary evidence in accordance with IB.12.

IB.9 Sufficiency of Bid

- 9.1 Each bidder shall satisfy himself before Bidding as to the correctness and sufficiency of his Bid and of the premium on the rates of CSR / rates and prices quoted/entered in the Schedule of Prices, which rates and prices shall except in so far as it is otherwise expressly provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper completion of the works.

- 9.2 The bidder is advised to obtain for himself at his own cost and responsibility all information that may be necessary for preparing the bid and entering into a Contract for execution of the Works.

IB.10 Bid Prices, Currency of Bid and Payment

- 10.1 The bidder shall fill up the Schedule of Prices (Schedule A to Bid) indicating the percentage above or below the Composite Schedule of Rates/unit rates and prices of the Works to be performed under the Contract. Prices in the Schedule of Prices/Bill of Quantities shall be quoted entirely in Pak Rupees keeping in view the instructions contained in the Preamble to Schedule of Prices.
- 10.2 Unless otherwise stipulated in the Conditions of Contract, prices quoted by the bidder shall remain fixed during the bidder's performance of the Contract and not subject to variation on any account.
- 10.3 The unit rates and prices in the Schedule of Prices or percentage above or below on the composite schedule of rates shall be quoted by the bidder in the currency as stipulated in Bidding Data.
- 10.4 Items for which no rate or price is entered by the Bidder will not be paid for by the Procuring Agency when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

IB.11 Documents Establishing Bidder's Eligibility and Qualifications

- 11.1 Pursuant to Clause IB.8, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.
- 11.2 Bidder must possess and provide evidence of its capability and the experience as stipulated in Bidding Data and the Qualification Criteria mentioned in the Bidding Documents.

IB.12 Documents Establishing Works' Conformity to Bidding Documents

- 12.1 The documentary evidence of the Works' conformity to the Bidding Documents may be in the form of literature, drawings and data and the bidder shall furnish documentation as set out in Bidding Data.
- 12.2 The bidder shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers, if any, designated by the Procuring Agency in the Technical Provisions are intended to be descriptive only and not restrictive.

IB.13 Bid Security

- 13.1 Each bidder shall furnish, as part of his bid, at the option of the bidder, a Bid Security as percentage of bid price/estimated cost or in the amount stipulated in Bidding Data in Pak. Rupees in the form of *Deposit at Call/ Payee's Order or a Bank Guarantee* issued by a Scheduled Bank in Pakistan in favour of the Procuring Agency valid for a period up to twenty eight (28) days beyond the bid validity date (*Bid security should not be below 1%.and not exceeding 5% of bid price/estimated cost SPP Rule 37*).
- 13.2 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Procuring Agency as non-responsive.
- 13.3 The bid securities of unsuccessful bidders will be returned upon award of contract to the successful bidder or on the expiry of validity of Bid Security whichever is earlier.
- 13.4 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security, and signed the Contract Agreement (SPP Rule 37).
- 13.5 The Bid Security may be forfeited:
- (a) if a bidder withdraws his bid during the period of bid validity; or
 - (b) if a bidder does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) hereof; or
 - (c) in the case of a successful bidder, if he fails within the specified time limit to:
 - (i) furnish the required Performance Security or
 - (ii) sign the Contract Agreement.

IB.14 Validity of Bids, Format, Signing and Submission of Bid

- 14.1 Bids shall remain valid for the period stipulated in the Bidding Data after the date of bid opening.
- 14.2 In exceptional circumstances, Procuring Agency may request the bidders to extend the period of validity for a additional period but not exceeding 1/3 of the original period. The request and the bidders' responses shall be made in writing or by cable. A Bidder may refuse the request without forfeiting the Bid Security. A Bidder agreeing to the request will not be required or permitted to otherwise modify the Bid, but will be required to extend the validity of Bid Security for the period of the extension, and in compliance with IB.13 in all respects (SPP Rule 38).
- 14.3 All Schedules to Bid are to be properly completed and signed.
- 14.4 No alteration is to be made in the Form of Bid except in filling up the blanks as directed. If any alteration be made or if these instructions be not fully complied with, the bid may be rejected.

- 14.5 Each bidder shall prepare Original and number of copies specified in the Bidding Data of the documents comprising the bid as described in IB.8 and clearly mark them —ORIGINAL and —COPY as appropriate. In the event of discrepancy between them, the original shall prevail.
- 14.6 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign (in the case of copies, Photostats are also acceptable). This shall be indicated by submitting a written Power of Attorney authorising the signatory of the bidder to act for and on behalf of the bidder. All pages of the bid shall be initialed and official seal be affixed by the person or persons signing the bid.
- 14.7 The Bid shall be delivered in person or sent by registered mail at the address to Procuring Agency as given in Bidding Data.

D. SUBMISSION OF BID

IB.15 Deadline for Submission, Modification & Withdrawal of Bids

- 15.1 Bids must be received by the Procuring Agency at the address/provided in Bidding Data not later than the time and date stipulated therein.
- 15.2 The inner and outer envelopes shall
- (a) be addressed to the Procuring Agency at the address provided in the Bidding Data;
 - (b) bear the name and identification number of the Contract as defined in the Bidding and Contract Data; and
 - (c) provide a warning not to open before the specified time and date for Bid opening as defined in the Bidding Data.
 - (d) in addition to the identification required in 15.2, the inner envelopes shall indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared late.
 - (e) If the outer envelope is not sealed and marked as above, the Procuring Agency will assume no responsibility for the misplacement or premature opening of the Bid.
- 15.3 Bids submitted through telegraph, telex, fax or e-mail shall not be considered.
- 15.4 Any bid received by the Procuring Agency after the deadline for submission prescribed in Bidding Data will be returned unopened to such bidder.
- 15.5 Any bidder may modify or withdraw his bid after bid submission provided that the modification or written notice of withdrawal is received by the Procuring Agency prior to the deadline for submission of bids.
- 15.6 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security pursuant to IB.13.5 (a).

E. BID OPENING AND EVALUATION

IB.16 Bid Opening, Clarification and Evaluation (SPP Rules 41, 42 & 43)

- 16.1 The Procuring Agency will open the bids, in the presence of bidders' representatives who choose to attend, at the time, date and in the place specified in the Bidding Data.
- 16.2 The bidder's name, Bid Prices, any discount, the presence or absence of Bid Security, and such other details as the Procuring Agency at its discretion may consider appropriate, will be announced by the Procuring Agency at the bid opening. The Procuring Agency will record the minutes of the bid opening. Representatives of the bidders who choose to attend shall sign the attendance sheet.

Any Bid Price or discount which is not read out and recorded at bid opening will not be taken into account in the evaluation of bid.

- 16.3 To assist in the examination, evaluation and comparison of Bids the Engineer/Procuring Agency may, at its discretion, ask the bidder for a clarification of its Bid. The request for clarification and the response shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted (SPP Rule 43).

- 16.4 (a) Prior to the detailed evaluation, pursuant to IB.16.7 to 16.9, the Engineer/Procuring Agency will determine the substantial responsiveness of each bid to the Bidding Documents. For purpose of these instructions, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviations. It will include determining the requirements listed in Bidding Data.

- (b) Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the words and figures the amount in words shall prevail. If there is a discrepancy between the Total Bid price entered in Form of Bid and the total shown in Schedule of Prices-Summary, the amount stated in the Form of Bid will be corrected by the Procuring Agency in accordance with the Corrected Schedule of Prices.

If the bidder does not accept the corrected amount of Bid, his Bid will be rejected and his Bid Security forfeited.

- 16.5 A Bid determined as substantially non-responsive will be rejected and will not subsequently be made responsive by the bidder by correction of the non-conformity.
- 16.6 Any minor informality or non-conformity or irregularity in a Bid which does not constitute a material deviation (**major deviation**) may be waived by Procuring Agency,

provided such waiver does not prejudice or affect the relative ranking of any other bidders.

(A). Major (material) Deviations include:-

- (i) has been not properly signed;
- (ii) is not accompanied by the bid security of required amount and manner;
- (iii) stipulating price adjustment when fixed price bids were called for;
- (iv) failing to respond to specifications;
- (v) failing to comply with Mile-stones/Critical dates provided in Bidding Documents;
- (vi) sub-contracting contrary to the Conditions of Contract specified in Bidding Documents;
- (vii) refusing to bear important responsibilities and liabilities allocated in the Bidding Documents, such as performance guarantees and insurance coverage;
- (viii) taking exception to critical provisions such as applicable law, taxes and duties and dispute resolution procedures;
- (ix) a material deviation or reservation is one :
 - (a) which affect in any substantial way the scope, quality or performance of the works;
 - (b) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

(B) Minor Deviations

Bids that offer deviations acceptable to the Procuring Agency and which can be assigned a monetary value may be considered substantially responsive at least as to the issue of fairness. This value would however be added as an adjustment for evaluation purposes only during the detailed evaluation process.

- 16.7 The Engineer/Procuring Agency will evaluate and compare only the bids previously determined to be substantially responsive pursuant to IB.16.4 to 16.6 as per requirements given hereunder. Bids will be evaluated for complete scope of works. The prices will be compared on the basis of the Evaluated Bid Price pursuant to IB.16.8 herein below.

Technical Evaluation: It will be examined in detail whether the works offered by the bidder complies with the Technical Provisions of the Bidding Documents. For this purpose, the bidder's data submitted with the bid in Schedule B to Bid will be compared with technical features/criteria of the works detailed in the Technical Provisions. Other technical information submitted with the bid regarding the Scope of Work will also be reviewed.

16.8 Evaluated Bid Price

In evaluating the bids, the Engineer/Procuring Agency will determine for each bid in addition to the Bid Price, the following factors (adjustments) in the manner and to the extent indicated below to determine the Evaluated Bid Price:

- (i) making any correction for arithmetic errors pursuant to IB.16.4 hereof.

- (ii) discount, if any, offered by the bidders as also read out and recorded at the time of bid opening.
- (iii) excluding **provisional sums** and the provisions for **contingencies** in the Bill of Quantities **if any**, but including **Day work**, where priced competitively.

IB.17 Process to be Confidential

17.1 Subject to IB.16.3 heretofore, no bidder shall contact Engineer/Procuring Agency on any matter relating to its Bid from the time of the Bid opening to the time the bid evaluation result is announced by the Procuring Agency. The evaluation result shall be announced at least seven (07) days prior to award of Contract (SPP Rule 45). The announcement to all bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated.

17.2 Any effort by a bidder to influence Engineer/Procuring Agency in the Bid evaluation, Bid comparison or Contract Award decisions may result in the rejection of his Bid. Whereas any bidder feeling aggrieved, may lodge a written complaint to Complaint Redressal Committee as per terms and conditions mentioned in SPP Rules 31 & 32. However, mere fact of lodging a complaint shall not warrant suspension of procurement process.

17.3 Bidders may be excluded if involved in "**Corrupt and Fraudulent Practices**" means either one or any combination of the practices given below SPP Rule 2(q);

(i) —**Coercive Practice** means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;

(ii) —**Collusive Practice** means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;

(iii) "**Corrupt Practice**" means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;

(iv) —**Fraudulent Practice**" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(v) "**Obstructive Practice**" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately destroying, falsifying, altering or concealing of

evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the Rules.

F. AWARD OF CONTRACT

IB.18. Post Qualification

- 18.1 The Procuring Agency, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in contractor's capacities, may require the contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided, that such qualification shall only be laid down after recording reasons therefore in writing. They shall form part of the records of that bid evaluation report.

- 18.2 The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidders' qualifications submitted under B.11, as well as such other information required in the Bidding Documents.

IB.19 Award Criteria & Procuring Agency's Right

- 19.1 Subject to IB.19.2, the Procuring Agency will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be qualified to satisfactorily perform the Contract in accordance with the provisions of the IB.18.

- 19.2 Notwithstanding IB.19.1, the Procuring Agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the Procuring Agency's action except that the grounds for its rejection of all bids shall upon request be communicated, to any bidder who submitted a bid, without justification of the grounds. Notice of the rejection of all the bids shall be given promptly to all the bidders (SPP Rule 25).

IB.20 Notification of Award & Signing of Contract Agreement

- 20.1 Prior to expiration of the period of bid validity prescribed by the Procuring Agency, the Procuring Agency will notify the successful bidder in writing (—Letter of Acceptance) that his bid has been accepted (SPP Rule 49).
- 20.2 Within seven (07) days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Procuring Agency will send the successful bidder the Form of Contract Agreement provided in the Bidding Documents, incorporating all agreements between the parties.
- 20.3 The formal Agreement between the Procuring Agency and the successful bidder duly stamped at rate of ----% of bid price(updated from time to time) stated in Letter of Acceptance shall be executed within seven (07) days of the receipt of Form of Contract Agreement by the successful bidder from the Procuring Agency.

IB.21 Performance Security

- 21.1 The successful bidder shall furnish to the Procuring Agency a Performance Security in the form and the amount stipulated in the Conditions of Contract within a period of fourteen (14) days after the receipt of Letter of Acceptance (SPP 39).
- 21.2 Failure of the successful bidder to comply with the requirements of Sub-Clauses IB.20.2 & 20.3 or 21.1 or Clause IB.22 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.
- 21.3 Publication of Award of Contract: within seven days of the award of contract, the procuring shall publish on the website of the authority and on its own website, if such a website exists, the results of the bidding process, identifying the bid through procurement identifying Number if any and the following information:
- (1) Evaluation Report;
 - (2) Form of Contract and letter of Award;
 - (3) Bill of Quantities or Schedule of Requirements. (SPP Rule 50)

IB.22 Integrity Pact The Bidder shall sign and stamp the Form of Integrity Pact provided at Schedule-F to Bid in the Bidding Document for all Sindh Government procurement contracts exceeding Rupees ten (10) million. Failure to provide such Integrity Pact shall make the bid non-responsive (SPP Rule 89).

BIDDING DATA

(This section should be filled in by the Engineer/Procuring Agency before issuance of the Bidding Documents. The following specific data for the works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.)

Instructions to Bidders

Clause Reference

1.1 Name of Procuring Agency

Project Engineer Rehabilitation of Non-Functional Water Supply & Drainage Schemes in Sindh Karachi

5.1 (a) Procuring Agency's address:

Barrack No.94 Apposite Sindh Assembly Karachi.

(b) Engineer's address:

Barrack No.94 Apposite Sindh Assembly Karachi.

10.3 Bid shall be quoted entirely in Pak. Rupees. The payment shall be made in Pak. Rupees.

11.2 The bidder has the financial, technical and constructional capability necessary to perform the Contract as follows: *(Insert required capabilities and documents)*

i. Financial capacity: *(must have turnover of Rs 1.0 Million);*

ii. Technical capacity: *(mention the appropriate category of registration with PEC and qualification and experience of the staff);*

iii. Construction Capacity: *(mention the names and number of equipments required for the work).*

- 12.1 (a) A detailed description of the Works, essential technical and performance characteristics.
- (b) Complete set of technical information, description data, literature and drawings as required in accordance with Schedule B to Bid, Specific Works Data. This will include but not be limited to a sufficient number of drawings, photographs, catalogues, illustrations and such other information as is necessary to illustrate clearly the significant characteristics such as general construction dimensions and other relevant information about the works to be performed.

13.1 **Amount of Bid Security**

2% OF BID

14.1 **Period of Bid Validity**

90 DAYS

14.4 **Number of Copies of the Bid to be submitted:**

One original plus 0 copies.

14.6 (a) **Procuring Agency's Address for the Purpose of Bid Submission**

Project Engineer Rehabilitation of Non-Functional Water Supply & Drainage Schemes
In Sindh Karachi Barrack No.94 Apposite Sindh Assembly Karachi

15.1 **Deadline for Submission of Bids**

Time: 1:00 PM on 30/01/2018.

16.1 **Venue, Time, and Date of Bid Opening**

Venue: Project Engineer Rehabilitation of Non-Functional Water Supply & Drainage Schemes in Sindh Karachi.

Time: 2:00 P.M Date:30/01/2018

16.4 **Responsiveness of Bids**

- * (ii) Bid prices are firm during currency of contract/Price adjustment;
- (iii) Completion period offered is within specified limits,
- (iv) Bidder is eligible to Bid and possesses the requisite experience, capability and qualification.
- (v) Bid does not deviate from basic technical requirements and
- (vi) Bids are generally in order, etc.

*Procuring agency can adopt either of two options. (*Select either of them*)

(a) **NOT APPLICABLE**

(b) **Price adjustment contract:** In these contracts escalation will be paid only on those items and in the manner as notified by Finance Department, Government of Sindh, after bid opening during currency of the contract.

FORM OF BID AND SCHEDULES TO BID

FORM OF BID
(LETTER OF OFFER)

Bid Reference No:-

(A)

Name of Work: -

To:

The Project Engineer
Rehabilitation of Non-Functional
Water Supply & Drainage Schemes
In Sindh Karachi.

Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Contract Data, Specifications, Drawings, if any, Schedule of Prices and Addenda Nos. M/S _____
_____ for the execution of the above-named works, we, the undersigned, being a company doing business under the name of and address _____
_____ and being duly incorporated under the laws of Pakistan hereby offer to execute and complete such works and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Bid Price of Rs _____)only _____
_____ or such other sum as may be ascertained in accordance with the said Documents.
2. We understand that all the Schedules attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount Rs. _____
CD No. _____ Date _____ Bank _____
drawn in your favour or made payable to you and valid for a period of twenty eight (28) days beyond the period of validity of Bid.
4. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s) stated in Contract Data.
5. We agree to abide by this Bid for the period of 90 days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We undertake, if our Bid is accepted, to execute the Performance Security

referred to in Conditions of Contract for the due performance of the Contract.

8. We understand that you are not bound to accept the lowest or any bid you may receive.
9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a bid for the Works.

Dated this _____ day of _____, 20

Signature _____

in the capacity of _____ duly authorized to sign bid for and on behalf of

(Name of Bidder in Block Capitals)

(Seal)

Address

Witness:

(Signature) _____

Name: _____

Address: _____

[SCHEDULES TO BID INCLUDE THE FOLLOWING:

- Schedule A to Bid: Schedule of Prices
- Schedule B to Bid: Specific Works Data
- Schedule C to Bid: Works to be Performed by Subcontractors
- Schedule D to Bid: Proposed Program of Works
- Schedule E to Bid: Method of Performing Works
- Schedule F to Bid: Integrity Pact]

SCHEDULE – A TO BID

SCHEDULE OF PRICES

| <u>Sr. No.</u> | | <u>Page No.</u> |
|----------------|-------------------------------------------------------------|-----------------|
| 1. | Preamble to Schedule of Prices..... | 24 |
| 2. | Schedule of Prices..... | 26 |
| | * (a) Summary of Bid Prices | |
| | * (b) Detailed Schedule of Prices /Bill of Quantities (BOQ) | |

** [To be prepared by the Engineer/Procuring Agency]*

PREAMBLE TO SCHEDULE OF PRICES

1. General

- 1.1 The Schedule of Prices shall be read in conjunction with the Conditions of Contract, Contract Data together with the Specifications and Drawings, if any.
- 1.2 The Contract shall be for the whole of the works as described in these Bidding Documents. Bids must be for the complete scope of works.

2. Description

- 2.1 The general directions and descriptions of works and materials are not necessarily repeated nor summarized in the Schedule of Prices. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the Schedule of Prices.

3. Units & Abbreviations

- 3.1 Units of measurement, symbols and abbreviations expressed in the Bidding Documents shall comply with the Systeme Internationale d'Unites (SI Units).

(Note: The abbreviations to be used in the Schedule of Prices to be defined by the Procuring Agency).

4. Rates and Prices

- 4.1 Except as otherwise expressly provided under the Conditions of Contract, the rates and amounts entered in the Schedule of Prices shall be the rates at which the Contractor shall be paid and shall be the full inclusive value of the works set forth or implied in the Contract; except for the amounts reimbursable, if any to the Contractor under the Contract.
- 4.2 Unless otherwise stipulated in the Contract Data, the premium, rates and prices entered by the bidder shall not be subject to adjustment during the performance of the Contract.
- 4.3 All duties, taxes and other levies payable by the Contractor shall be included in the rates and prices.
- 4.4 The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Schedule of Prices, and where

SCHEDULE - A TO BID

no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works and no separate payment will be made for those items.

The rates, prices and amounts shall be entered against each item in the Schedule of Prices. Any item against which no rate or price is entered by the bidder will not be paid for by the Procuring Agency when executed and shall be deemed covered by the rates and prices for other items in the Schedule of Prices.

- 4.5 (a) The bidder shall be deemed to have obtained all information as to and all requirements related thereto which may affect the bid price.
- * (b) The Contractor shall be responsible to make complete arrangements for the transportation of the Plant to the Site.

**(Procuring Agency may modify as appropriate)*

- 4.6 The Contractor shall provide for all parts of the Works to be completed in every respect. Notwithstanding that any details, accessories, etc. required for the complete installation and satisfactory operation of the Works, are not specifically mentioned in the Specifications, such details shall be considered as included in the Contract Price.

5. Bid Prices

5.1 Break-up of Bid Prices

The various elements of Bid Prices shall be quoted as detailed by the Procuring Agency in the format of Schedule of Prices.

The bidder shall recognize such elements of the costs which he expects to incur the performance of the Works and shall include all such costs in the rates and amounts entered in the Schedule of Prices.

5.2 Total Bid Price

The total of bid prices in the Schedule of Prices shall be entered in the Summary of Bid Prices.

6. Provisional Sums and Day work

- 6.1 Provisional Sums included and so designated in the Schedule of Prices if any, shall be expended in whole or in part at the direction and discretion of the Engineer/Procuring Agency. The Contractor will only receive payment in respect of Provisional Sums, if he has been instructed by the Engineer/Procuring Agency to utilize such sums.

- 6.2 Day work rates in the contractor's bid are to be used for small additional amounts of work and only when the Engineer have given written instructions in advance for additional work to be paid for in that way.

SCHEDULE OF PRICES – SUMMARY OF BID PRICES (Sample)

| Bill No. | Description | Total Amount (Rs) |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| | <p>(A) Building Work</p> <p>1. Civil works</p> <p>2. Internal sanitary and water supply</p> <p>3. Electrification</p> <p>4. External Development works</p> <p>5. Miscellaneous Items</p> <p>(B) Road Work.</p> <p>1. Earthwork</p> <p>2. Hard Crust and Surface Treatment</p> <p>3. Culverts and Bridges</p> <p>4. Miscellaneous Items</p> <p>(C) Public Health Engineering Works.</p> <p>1. Earthwork</p> <p>2. Subsurface Drains</p> <p>3. Pipe Laying and Man holes</p> <p>4. Tube wells, Pump houses</p> <p>5. Compound wall</p> <p>6. Miscellaneous Items</p> <p>Total Bid Price (The amount to be entered in Paragraph 1 of the Form of Bid) (In words).</p> | <p>SCHEDULE B ATTACHED</p> |
| | | |

SCHEDULE OF PRICES

| Item No. | Description | Quantity | Unit Rate(Rs) | Total Amount (Rs) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------|---------------|-------------------|
| 1. 2. 3. | I. (Civil works) | | | |
| 1. 2. 3. | II. Internal sanitary and water supply. | | | |
| 1. 2. 3. | III. Electrification. | | | |
| 1. 2. 3. | IV. External Development works. | | | |
| 1. 2. 3. | V. Miscellaneous Items | | | |
| <p>Total (to be carried to Summary of Bid Price) Add/ Deduct the percentage quoted above/below on the prices of items based on Composite Schedule of Rates.</p> | | | | |

SCHEDULE "B" ATTACHED

SCHEDULE - B TO BID

***SPECIFIC WORKS DATA**

(To be prepared and incorporated by the Procuring Agency)

SCHEDULE "B" ATTACHED

Project Engineer
Rehabilitation of Non-Functional
Water Supply & Drainage Schemes
In Sindh Karachi

**(Note: The Procuring Agency shall spell out the information & data required to be filled out by the bidder and to furnish complementary information).*

4

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SCHEDULE – C TO BID

WORKS TO BE PERFORMED BY SUBCONTRACTORS*

The bidder will do the work with his own forces except the work listed below which he intends to sub-contract.

| Items of Works to be Sub-Contracted | Name and address of Sub-Contractors | Statement of similar works previously executed. (<i>attach evidence</i>) |
|----------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------|
|----------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------|

Note:

* *The Procuring Agency should decide whether to allow subcontracting or not.*

In case Procuring Agency decides to allow subcontracting then following conditions shall be complied with:

1. No change of Sub-Contractors shall be made by the bidder without prior approval of the Procuring Agency.
 2. The truthfulness and accuracy of the statement as to the experience of Sub-Contractors is guaranteed by the bidder. The Procuring Agency's judgment shall be final as to the evaluation of the experience of Sub-Contractors submitted by the bidder.
 3. Statement of similar works shall include description, location & value of works, year completed and name & address of the clients.
-

SCHEDULE – D TO BID

PROPOSED PROGRAMME OF WORKS

Bidder shall provide a programme in a bar-chart or Program Evaluation and Review Technique (PERT) or Critical Path Method (CPM) showing the sequence of work items by which he proposes to complete the works of the entire Contract. The programme should indicate the sequence of work items and the period of time during which he proposes to complete the works including the activities like designing, schedule of submittal of drawings, ordering and procurement of materials, manufacturing, delivering, construction of civil works, erection, testing and commissioning of works to be supplied under the Contract.

SCHEDULE – E TO BID

METHOD OF PERFORMING WORKS

The bidder is required to submit a narrative outlining the method of performing the Works. The narrative should indicate in detail and include but not be limited to:

- The sequence and methods in which he proposes to carry out the Works, including the number of shifts per day and hours per shift, he expects to work.
- A list of all major items of construction and plant erection, tools and vehicles proposed to be used in delivering/carrying out the works at site.
- The procedure for installation of equipment and transportation of equipment and materials to the site.
- Organisation chart indicating head office & field office personnel involved in management, supervision and engineering of the Works to be done under the Contract.

(INTEGRITY PACT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC
PAYABLE BY CONTRACTORS
(FOR CONTRACTS WORTH RS. 10.00 MILLION OR MORE)

Contract No. _____ Dated _____
Contract Value: _____
Contract Title: _____

..... [name of Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from, from Procuring Agency (PA) except that which has been expressly declared pursuant hereto.

[name of Contractor] accepts full responsibility and strict liability that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, [name of Supplier/Contractor/Consultant] agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PA.

.....
[Procuring Agency]

[Contractor]

CONDITIONS OF CONTRACT

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CONDITIONS OF CONTRACT

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CONDITIONS OF CONTRACT

1. GENERAL PROVISIONS

1.1 Definitions

In the Contract as defined below, the words and expressions defined shall have the following meanings assigned to them, except where the context requires otherwise:

The Contract

- 1.1.1 —Contract means the Contract Agreement and the other documents listed in the Contract Data.
- 1.1.2 —Specifications means the document as listed in the Contract Data, including Procuring Agency's requirements in respect of design to be carried out by the Contractor (if any), and any Variation to such document.
- 1.1.3 —Drawings means the Procuring Agency's drawings of the Works as listed in the Contract Data, and any Variation to such drawings.

Persons

- 1.1.4 —Procuring Agency means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.
- 1.1.5 —Contractor means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Procuring Agency) any assignee.
- 1.1.6 —Party means either the Procuring Agency or the Contractor.

Dates, Times and Periods

- 1.1.7 —Commencement Date means the date fourteen (14) days after the date the Contract comes into effect or any other date named in the Contract Data.
- 1.1.8 —Day means a calendar day
- 1.1.9 —Time for Completion means the time for completing the Works as stated in the Contract Data (or as extended under Sub-Clause 7.3), calculated from the Commencement Date.

Money and Payments

- 1.1.10 —Cost means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges but

does not include any allowance for profit.

Other Definitions

- 1.1.11 —Contractor's Equipmentl means all machinery, apparatus and other things required for the execution of the Works but does not include Materials or Plant intended to form part of the Works.
- 1.1.12 —Countryl means the Islamic Republic of Pakistan.
- 1.1.13 —Procuring Agency's Risksl means those matters listed in Sub-Clause 6.1.
- 1.1.14 —Force Majeurel means an event or circumstance which makes performance of a Party's obligations illegal or impracticable and which is beyond that Party's reasonable control.
- 1.1.15 —Materialsl means things of all kinds (other than Plant) to be supplied and incorporated in the Works by the Contractor.
- 1.1.16 —Plantl means the machinery and apparatus intended to form or forming part of the Works.
- 1.1.17 —Sitel means the places provided by the Procuring Agency where the Works are to be executed, and any other places specified in the Contract as forming part of the Site.
- 1.1.18 —Variationl means a change which is instructed by the Engineer/Procuring Agency under Sub-Clause 10.1.
- 1.1.19 —Worksl means any or all the works whether Supply, Installation, Construction etc. and design (if any) to be performed by the Contractor including temporary works and any variation thereof.
- 1.1.20 —Engineerl means the person notified by the Procuring Agency to act as Engineer for the purpose of the Contract and named as such in Contract Data.

1.2 Interpretation

Words importing persons or parties shall include firms and organisations. Words importing singular or one gender shall include plural or the other gender where the context requires.

1.3 Priority of Documents

The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the priority of the documents shall be in accordance with the order as listed in the Contract Data.

1.4 **Law**

The law of the Contract is the relevant Law of Islamic Republic of Pakistan.

1.5 **Communications**

All Communications related to the Contract shall be in English language.

1.6 **Statutory Obligations**

The Contractor shall comply with the Laws of Islamic Republic of Pakistan and shall give all notices and pay all fees and other charges in respect of the Works.

2. **THE PROCURING AGENCY**

2.1 **Provision of Site**

The Procuring Agency shall provide the Site and right of access thereto at the times stated in the Contract Data.

Site Investigation Reports are those that were included in the bidding documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.

2.2 **Permits etc.**

The Procuring Agency shall, if requested by the Contractor, assist him in applying for permits, licences or approvals which are required for the Works.

2.3 **Engineer's/Procuring Agency's Instructions**

The Contractor shall comply with all instructions given by the Procuring Agency or the Engineer, if notified by the Procuring Agency, in respect of the Works including the suspension of all or part of the works.

2.4 **Approvals**

No approval or consent or absence of comment by the Engineer/Procuring Agency shall affect the Contractor's obligations.

3. **ENGINEER'S/PROCURING AGENCY'S REPRESENTATIVES**

3.1 **Authorised Person**

The Procuring Agency shall appoint a duly authorized person to act for him and on his behalf for the purposes of this Contract. Such authorized person shall be duly identified in the Contract Data or otherwise notified in writing to the Contractor as soon as he is so appointed. In either case the Procuring Agency shall notify the Contractor, in writing, the precise scope of the authority of such authorized person at the time of his appointment.

3.2 Engineer's/Procuring Agency's Representative

The name and address of Engineer's/Procuring Agency's Representative is given in Contract Data. However the Contractor shall be notified by the Engineer/Procuring Agency, the delegated duties and authority before the Commencement of works.

4. THE CONTRACTOR

4.1 General Obligations

The Contractor shall carry out the works properly and in accordance with the Contract. The Contractor shall provide all supervision, labour, Materials, Plant and Contractor's Equipment which may be required

4.2 Contractor's Representative

The Contractor shall appoint a representative at site on full time basis to supervise the execution of work and to receive instructions on behalf of the Contractor but only after obtaining the consent of the Procuring Agency for such appointment which consent shall not be withheld without plausible reason(s) by the Procuring Agency. Such authorized representative may be substituted/ replaced by the Contractor at any time during the Contract Period but only after obtaining the consent of the Procuring Agency as aforesaid.

4.3 Subcontracting

The Contractor shall not subcontract the whole of the works. The Contractor shall not subcontract any part of the works without the consent of the Procuring Agency.

4.4 Performance Security

The Contractor shall furnish to the Procuring Agency within fourteen (14) days after receipt of Letter of Acceptance a Performance Security at the option of the bidder, in the form of Payee's order /Bank Draft or Bank Guarantee from scheduled bank for the amount and validity specified in Contract Data.

5. DESIGN BY CONTRACTOR

5.1 Contractor's Design

The Contractor shall carry out design to the extent specified, as referred to in the Contract Data. The Contractor shall promptly submit to the Engineer/Procuring Agency all designs prepared by him, within fourteen (14) days of receipt the Engineer/Procuring Agency shall notify any comments or, if the design submitted is not in accordance with the Contract, shall reject it stating the reasons. The

Contractor shall not construct any element of the works designed by him within fourteen (14) days after the design has been submitted to the Engineer/Procuring Agency or which has been rejected. Design that has been rejected shall be promptly amended and resubmitted. The Contractor shall resubmit all designs commented on taking these comments into account as necessary.

5.2 Responsibility for Design

The Contractor shall remain responsible for his bided design and the design under this Clause, both of which shall be fit for the intended purposes defined in the Contract and he shall also remain responsible for any infringement of any patent or copyright in respect of the same. The Engineer/Procuring Agency shall be responsible for the Specifications and Drawings.

6. PROCURING AGENCY'S RISKS

6.1 The Procuring Agency's Risks

The Procuring Agency's Risks are:-

- a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies, within the Country;
- b) rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war, within the Country;
- c) riot, commotion or disorder by persons other than the Contractor's personnel and other employees including the personnel and employees of Sub-Contractors, affecting the Site and/or the Works;
- d) ionising radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component of such an assembly, except to the extent to which the Contractor/Sub-Contractors may be responsible for the use of any radio-active material;
- e) Pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds;
- f) use or occupation by the Procuring Agency of any part of the Works, except as may be specified in the Contract;
- g) late handing over of sites, anomalies in drawings, late delivery of designs and drawings of any part of the Works by the Procuring Agency's personnel or by others for whom the Procuring Agency is responsible;
- h) a suspension under Sub-Clause 2.3 unless it is attributable to the Contractor's failure; and

- i) physical obstructions or physical conditions other than climatic conditions, encountered on the Site during the performance of the Works, for which the Contractor immediately notified to the Procuring Agency and accepted by the Procuring Agency.

7. TIME FOR COMPLETION

7.1 Execution of the Works

The Contractor shall commence the Works on the Commencement Date and shall proceed expeditiously and without delay and shall complete the Works, subject to Sub-Clause 7.3 below, within the Time for Completion.

7.2 Programme

Within the time stated in the Contract Data, the Contractor shall submit to the Engineer/Procuring Agency a programme for the Works in the form stated in the Contract Data.

7.3 Extension of Time

The Contractor shall, within such time as may be reasonable under the circumstances, notify the Procuring Agency/Engineer of any event(s) falling within the scope of Sub-Clause 6.1 or 10.3 of these Conditions of Contract and request the Procuring Agency/Engineer for a reasonable extension in the time for the completion of works. Subject to the aforesaid, the Procuring Agency/Engineer shall determine such reasonable extension in the time for the completion of works as may be justified in the light of the details/particulars supplied by the Contractor in connection with the such determination by the Procuring Agency/Engineer within such period as may be prescribed by the Procuring Agency/Engineer for the same; and the Procuring Agency may extend the time for completion as determined.

7.4 Late Completion

If the Contractor fails to complete the Works within the Time for Completion, the Contractor's only liability to the Procuring Agency for such failure shall be to pay the amount as **liquidity damages** stated in the Contract Data for each day for which he fails to complete the Works.

8. TAKING-OVER

8.1 Completion

The Contractor may notify the Engineer/Procuring Agency when he considers that the Works are complete.

8.2 **Taking-Over Notice**

Within fourteen (14) days of the receipt of the said notice of completion from the Contractor the Procuring Agency/Engineer shall either takeover the completed works and issue a Certificate of Completion to that effect or shall notify the Contractor his reasons for not taking-over the works. While issuing the Certificate of Completion as aforesaid, the Procuring Agency/Engineer may identify any outstanding items of work which the Contractor shall undertake during the Maintenance Period.

9. **REMEDYING DEFECTS**

9.1 **Remedying Defects**

The Contractor shall for a period stated in the Contract Data from the date of issue of the Certificate of Completion carry out, at no cost to the Procuring Agency, repair and rectification work which is necessitated by the earlier execution of poor quality of work or use of below specifications material in the execution of Works and which is so identified by the Procuring Agency/Engineer in writing within the said period. Upon expiry of the said period, and subject to the Contractor's faithfully performing his aforesaid obligations, the Procuring Agency/Engineer shall issue a Maintenance Certificate whereupon all obligations of the Contractor under this Contract shall come to an end.

Failure to remedy any such defects or complete outstanding work within a reasonable time shall entitle the Procuring Agency to carry out all necessary works at the Contractor's cost. However, the cost of remedying defects not attributable to the Contractor shall be valued as a Variation.

9.2 **Uncovering and Testing**

The Engineer/Procuring Agency may give instruction as to the uncovering and/or testing of any work. Unless as a result of an uncovering and/or testing it is established that the Contractor's design, materials, plant or workmanship are not in accordance with the Contract, the Contractor shall be paid for such uncovering and/or testing as a Variation in accordance with Sub-Clause 10.2.

10. **VARIATIONS AND CLAIMS**

10.1 **Right to Vary**

The Procuring Agency/Engineer may issue Variation Order(s) in writing. Where for any reason it has not been possible for the Procuring Agency/Engineer to issue such Variations Order(s), the Contractor may confirm any verbal orders given by the Procuring Agency/Engineer in writing and if the same are not refuted/denied by the Procuring Agency/Engineer within ten (10) days of the receipt of such confirmation the same shall be deemed to be a Variation Orders for the purposes of this Sub-Clause.

10.2 Valuation of Variations

Variations shall be valued as follows:

- a) at a lump sum price agreed between the Parties, or
- b) where appropriate, at rates in the Contract, or
- c) in the absence of appropriate rates, the rates in the Contract shall be used as the basis for valuation, or failing which
- d) at appropriate new rates, as may be agreed or which the Engineer/Procuring Agency considers appropriate, or
- e) if the Engineer/Procuring Agency so instructs, at day work rates set out in the Contract Data for which the Contractor shall keep records of hours of labour and Contractor's Equipment, and of Materials, used.

10.3 Changes in the Quantities.

- a) If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Initial Contract Price, the Procuring Agency/Engineer shall adjust the rate to allow for the change and will be valued as per sub clause 10.2.
- b) The Engineer shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the prior approval of the Procuring Agency.
- c) If requested by the Engineer, the contractor shall provide the Engineer with a detailed cost breakdown of any rate in the Bill of Quantities.

10.4 Early Warning

The Contractor shall notify the Engineer/Procuring Agency in writing as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment.

To the extent of the Contractor's failure to notify, which results to the Engineer/Procuring Agency being unable to keep all relevant records or not taking steps to minimise any delay, disruption, or Cost, or the value of any Variation, the Contractor's entitlement to extension of the Time for Completion or additional payment shall be reduced/rejected.

10.5 Valuation of Claims

If the Contractor incurs Cost as a result of any of the Procuring Agency's Risks, the Contractor shall be entitled to the amount of such Cost. If as a result of any

Procuring Agency's Risk, it is necessary to change the Works, this shall be dealt with as a Variation subject to Contractor's notification for intention of claim to the Engineer/Procuring Agency within fourteen (14) days of the occurrence of cause.

10.6 **Variation and Claim Procedure**

The Contractor shall submit to the Engineer/Procuring Agency an itemised detailed breakdown of the value of variations and claims within twenty eight (28) days of the instruction or of the event giving rise to the claim. The Engineer/Procuring Agency shall check and if possible agree the value. In the absence of agreement, the Procuring Agency shall determine the value.

11. **CONTRACT PRICE AND PAYMENT**

11.1 (a) **Terms of Payments**

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall , subject to Clause 11.3, be paid by the Procuring Agency to the Contractor within 30 days after such Interim Payment Certificate has been jointly verified by Procuring Agency and Contractor, or, in the case of the Final Certificate referred to in Sub Clause 11.5, within 60days after such Final Payment Certificate has been jointly verified by Procuring Agency and Contractor;

Provided that the Interim Payment shall be caused in thirty (30) days and Final Payment in 60 days in case of foreign funded project. In the event of the failure of the Procuring Agency to make payment within 90 days then Procuring Agency shall pay to the Contractor compensation at the 28 days rate of KIBOR+2% per annum in local currency and LIBOR+1% for foreign currency, upon all sums unpaid from the date by which the same should have been paid.

(b) **Valuation of the Works**

The Works shall be valued as provided for in the Contract Data, subject to Clause 10.

11.2 **Monthly Statements**

The Contractor shall be entitled to be paid at monthly intervals:

- a) the value of the Works executed less to the cumulative amount paid previously; and
- b) value of secured advance on the materials and valuation of variations (if any).

The Contractor shall submit each month to the Engineer/Procuring Agency a statement showing the amounts to which he considers himself entitled.

11.3 **Interim Payments**

Within a period not exceeding seven (07) days from the date of submission of a statement for interim payment by the Contractor, the Engineer shall verify the same and within a period not exceeding thirty (30/60) days from the said date of submission by the Contractor, the Procuring Agency shall pay to the Contractor the sum subject to adjustment for deduction of the advance payments and retention money.

11.4 **Retention**

Retention money shall be paid by the Procuring Agency to the Contractor within fourteen (14) days after either the expiry of the period stated in the Contract Data, or the remedying of notified defects, or the completion of outstanding work, all as referred to in Sub-Clause 9.1, whichever is the later.

11.5 **Final Payment**

Within twenty one (21) days from the date of issuance of the Maintenance Certificate the Contractor shall submit a final account to the Engineer to verify and the Engineer shall verify the same within fourteen (14) days from the date of submission and forward the same to the Procuring Agency together with any documentation reasonably required to enable the Procuring Agency to ascertain the final contract value.

Within sixty (60) days from the date of receipt of the verified final account from the Engineer, the Procuring Agency shall pay to the Contractor any amount due to the Contractor. While making such payment the Procuring Agency may, for reasons to be given to the Contractor in writing, withhold any part or parts of the verified amount.

11.6 **Currency**

Payment shall be in the currency stated in the Contract Data.

12. **DEFAULT**

12.1 **Defaults by Contractor**

If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Engineer/Procuring Agency or fails to proceed expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Procuring Agency may give notice referring to this Sub-Clause and stating the default.

If the Contractor has not taken all practicable steps to remedy the default within fourteen (14) days after receipt of the Procuring Agency's notice, the Procuring Agency may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilize from the Site leaving behind any Contractor's Equipment which the Procuring Agency instructs, in the second notice, to be used for the completion of the Works at the risk and cost of the Contractor.

12.2 Defaults by Procuring Agency

If the Procuring Agency fails to pay in accordance with the Contract, or is, despite a written complaint, in breach of the Contract, the Contractor may give notice referring to this Sub-Clause and stating the default. If the default is not remedied within fourteen (14) days after the Procuring Agency's receipt of this notice, the Contractor may suspend the execution of all or parts of the Works.

If the default is not remedied within twenty eight (28) days after the Procuring Agency's receipt of the Contractor's notice, the Contractor may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilise from the Site.

12.3 Insolvency

If a Party is declared insolvent under any applicable law, the other Party may by notice terminate the Contract immediately. The Contractor shall then demobilise from the site leaving behind, in the case of the Contractor's insolvency, any Contractor's Equipment which the Procuring Agency instructs in the notice is to be used for the completion of the Works.

12.4 Payment upon Termination

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the works executed and of the Materials and Plant reasonably delivered to the site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) any sums to which the Procuring Agency is entitled,
- c) if the Procuring Agency has terminated under Sub-Clause 12.1 or 12.3, the Procuring Agency shall be entitled to a sum equivalent to twenty percent (20%) of the value of parts of the Works not executed at the date of the termination, and
- d) if the Contractor has terminated under Sub-Clause 12.2 or 12.3, the Contractor shall be entitled to the cost of his demobilisation together with a sum equivalent to ten percent (10%) of the value of parts of the works not executed at the date of termination.

The net balance due shall be paid or repaid within twenty eight (28) days of the notice of termination.

13. RISKS AND RESPONSIBILITIES

13.1 Contractor's Care of the Works

Subject to Sub-Clause 9.1, the Contractor shall take full responsibility for the care

of the Works from the Commencement Date until the date of the Procuring Agency's/Engineer's issuance of Certificate of Completion under Sub-Clause 8.2. Responsibility shall then pass to the Procuring Agency. If any loss or damage happens to the Works during the above period, the Contractor shall rectify such loss or damage so that the Works conform with the Contract.

Unless the loss or damage happens as a result of any of the Procuring Agency's Risks, the Contractor shall indemnify the Procuring Agency, or his agents against all claims loss, damage and expense arising out of the Works.

13.2 Force Majeure

If Force Majeure occurs, the Contractor shall notify the Engineer/Procuring Agency immediately. If necessary, the Contractor may suspend the execution of the Works and, to the extent agreed with the Procuring Agency demobilize the Contractor's Equipment.

If the event continues for a period of eighty four (84) days, either Party may then give notice of termination which shall take effect twenty eight (28) days after the giving of the notice.

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) the cost of his demobilization, and
- c) less any sums to which the Procuring Agency is entitled.

The net balance due shall be paid or repaid within thirty five (35) days of the notice of termination.

14. INSURANCE

14.1 Arrangements

The Contractor shall, prior to commencing the Works, effect insurances of the types, in the amounts and naming as insured the persons stipulated in the Contract Data except for items (a) to (e) and (i) of the Procuring Agency's Risks under Sub-Clause 6.1. The policies shall be issued by insurers and in terms approved by the Procuring Agency. The Contractor shall provide the Engineer/Procuring Agency with evidence that any required policy is in force and that the premiums have been paid.

14.2 Default

If the Contractor fails to effect or keep in force any of the insurances referred to in the previous Sub-Clause, or fails to provide satisfactory evidence, policies or receipts, the Procuring Agency may, without prejudice to any other right or

remedy, effect insurance for the cover relevant to such as a default and pay the premiums due and recover the same plus a sum in percentage given in Contractor Data from any other amounts due to the Contractor.

15. RESOLUTION OF DISPUTES

15.1 Engineer's Decision

If a dispute of any kind whatsoever arises between the Procuring Agency and the Contractor in connection with the works, the matter in dispute shall, in the first place, be referred in writing to the Engineer, with a copy to the other party. Such reference shall state that it is made pursuant to this Clause. No later than the twenty eight (28) days after the day on which he received such reference, the Engineer shall give notice of his decision to the Procuring Agency (Superintending Engineer) and the Contractor.

Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the work with all due diligence, and the Contractor and the Procuring Agency (Superintending Engineer) shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided in an arbitral award.

15.2 Notice of Dissatisfaction

If a Party is dissatisfied with the decision of the Engineer of consultant or if no decision is given within the time set out in Sub-Clause 15.1 here above, the Party may give notice of dissatisfaction referring to this Sub-Clause within fourteen (14) days of receipt of the decision or the expiry of the time for the decision. If no notice of dissatisfaction is given within the specified time, the decision shall be final and binding on the Parties. If notice of dissatisfaction is given within the specified time, the decision shall be binding on the Parties who shall give effect to it without delay unless and until the decision of the Engineer is revised by an arbitrator.

If a contractor is dissatisfied with the decision of the Engineer of the department or decision is not given in time then he can approach Superintending Engineer within 14 days, in case of dissatisfaction with decision of Superintending Engineer or not decided within 28 days, then arbitration process would be adopted as per clause 15.3.

15.3 Arbitration

A dispute which has been the subject of a notice of dissatisfaction shall be finally settled as per provisions of Arbitration Act 1940 (Act No. X of 1940) and Rules made there under and any statutory modifications thereto. Any hearing shall be held at the place specified in the Contract Data and in the language referred to in Sub-Clause 1.5.

INTEGRITY PACT

16.1 If the Contractor or any of his Sub-Contractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Schedule-F to his Bid, then the Procuring Agency shall be entitled to:

- (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Sub-Contractors, agents or servants;
- (b) terminate the Contract; and
- (c) recover from the Contractor any loss or damage to the Procuring Agency as a result of such termination or of any other corrupt business practices of the Contractor or any of his Sub-Contractors, agents or servants.

On termination of the Contract under Sub-Para (b) of this Sub-Clause, the Contractor shall demobilize from the site leaving behind Contractor's Equipment which the Procuring Agency instructs, in the termination notice, to be used for the completion of the works at the risk and cost of the Contractor. Payment upon such termination shall be made under Sub-Clause 12.4, in accordance with Sub-Para (c) thereof, after having deducted the amounts due to the Procuring Agency under Sub-Para (a) and (c) of this Sub-Clause.

CONTRACT DATA

(Note: Except where otherwise indicated, all Contract Data should be filled in by the Procuring Agency prior to issuance of the Bidding Documents.)

Sub-Clauses of

Conditions of Contract

1.1.3 Procuring Agency's Drawings, if any
(To be listed by the Procuring Agency)

1.1.4 **The Procuring Agency** means

Project Engineer Rehabilitation of Non-Functional Water Supply & Drainage Schemes in Sindh Karachi

1.1.5 **The Contractor** means

M/s

1.1.7 **Commencement Date** means the date of issue of Engineer's Notice to Commence which shall be issued within fourteen (14) days of the signing of the Contract Agreement.

1.1.9 **Time for Completion** 12 Months

(The time for completion of the whole of the Works should be assessed by the Procuring Agency)

1.1.20 **Engineer (mention the name along with the designation including whether he belongs to department or consultant) and other details**

PROCURING AGENCY (AS MENTIONED ABOVE).

1.3 **Documents forming the Contract listed in the order of priority:**

- (a) The Contract Agreement
- (b) Letter of Acceptance
- (c) The completed Form of Bid
- (d) Contract Data
- (e) Conditions of Contract
- (f) The completed Schedules to Bid including Schedule of Prices
- (g) The Drawings, if any
- (h) The Specifications
- (i) _____
- (j) _____

(The Procuring Agency may add, in order of priority, such other documents as form part of the Contract. Delete the document, if not applicable)

2.1 **Provision of Site:** On the Commencement Date

3.1 **Authorized person:** PROCURING AGENCY

3.2 **Name and address of Engineer's/Procuring Agency's representative**

4.4 **Performance Security:**

Amount NIL

Validity _____

(Form: As provided under Standard Forms of these Documents)

5.1 **Requirements for Contractor's design (if any):**

Specification Clause No's NO

7.2 **Programme:**

Time for submission: Within fourteen (14) days* of the Commencement Date.

Form of programme: _____ *(Bar Chart/CPM/PERT or other)*

7.4 Amount payable due to failure to complete shall be Nil% per day up to a maximum of (10%) of sum stated in the Letter of Acceptance

(Usually the liquidated damages are set between 0.05 percent and 0.10 percent per day.)

7.5 **Early Completion**

In case of earlier completion of the Work, the Contractor is entitled to be paid bonus up-to limit and at a rate equivalent to 50% of the relevant limit and rate of liquidated damages stated in the contract data.

9.1 **Period for remedying defects**

NOT APPLICABLE

10.2 **(e) Variation procedures:**

Day work rates NOT APPLICABLE

_____ (details)

11.1 **Terms of Payments**

a) Mobilization Advance

(1) Mobilization Advance up to 10 % of the Contract Price stated in the Letter of Acceptance shall be paid by the Procuring Agency to the Contractor on the works costing Rs.2.5 million or above on following conditions:

- (i) on submission by the Contractor of a Mobilization Advance Guarantee for the full amount of the Advance in the specified form from a Scheduled Bank in Pakistan to the Procuring Agency;
- (ii) Contractor will pay interest on the mobilization advance at the rate of 10% per annum on the advance; and
- (iii) This Advance including the interest shall be recovered in 5 equal installments from the five (05) R.A bills and in case the number of bills is less than five (05) then $1/5^{\text{th}}$ of the advance **inclusive of the interest** thereon shall be recovered from each bill and the balance together with interest be recovered from the final bill. It may be insured that there is sufficient amount in the final bill to enable recovery of the Mobilization Advance.

OR

2) **Secured Advance on Materials**

- (a) The Contractor shall be entitled to receive from the Procuring Agency Secured Advance against an INDENTURE BOND in P W Account Form No. 31(Fin. R. Form No. 2 acceptable to the Procuring Agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the Site but not yet incorporated in the Permanent Works provided that:
 - (i) The materials are in accordance with the Specifications for the Permanent Works;
 - (ii) Such materials have been delivered to the Site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer but at the risk and cost of the Contractor;
 - (iii) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;
 - (iv) The Contractor shall submit with his monthly statement the estimated value of the materials on Site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;
 - (v) Ownership of such materials shall be deemed to vest in the Procuring Agency and these materials shall not be removed from the Site or otherwise disposed of without written permission of the Procuring Agency;
 - (vi) The sum payable for such materials on Site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;

- (vii) Secured Advance should not be allowed unless & until the previous advance, if an, fully recovered;
 - (viii) Detailed account of advances must be kept in part II of running account bill; and
 - (ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and definitely not for full quantities of materials for the entire work/contract
- (b) Recovery of Secured Advance:
- (i) Secured Advance paid to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis, but not later than period specified in the rules not more than three months (even if unutilized); other conditions.
 - (ii) As recoveries are made the outstanding accounts of the items concerned in Part II should be reduced by making deduction entries in the column; —deduct quantity utilized in work measured since previous bill, equivalent to the quantities of materials used by the contractor on items of work shown as executed in part I of the bill.
- (c) Interim payments: The Contractor shall submit to the Engineer monthly statements of the estimated value of the work completed less the cumulative amount certified previously.
- (i) The value of work completed comprises the value of the quantities of the items in the Bill of Quantities completed.
 - (ii) value of secured advance on the materials and valuation of variations (if any).
 - (iii) Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
 - (v) Retention money and other advances are to be recovered from the bill submitted by contractor.

11.2 *(a) **Valuation of the Works:**

- i) Lump sum price _____ (details), or
- ii) Lump sum price with schedules of rates _____ (details), or
- iii) Lump sum price with bill of quantities _____ (details), or
- iv) Re-measurement with estimated/bid quantities in the Schedule of Prices or on premium above or below quoted on the rates mentioned in CSR _____ (details), or/and
- v) Cost reimbursable _____ (details)

11.3 **Percentage of retention*:** ten (10%)

11.6 **Currency of payment:** Pak. Rupees

14.1 **Insurances:** (Procuring Agency may decide, keeping in view the nature and the scope of the work)

Type of cover

The Works

Amount of cover

The sum stated in the Letter of Acceptance plus fifteen percent (15%)

Type of cover

Contractor's Equipment:

Amount of cover

Full replacement cost

Type of cover

Third Party-injury to persons and damage to property

NOT APPLICABLE

(The minimum amount of third party insurance should be assessed by the Procuring Agency and entered).

Workers:

Other cover*:

(In each case name of insured is Contractor and Procuring Agency)

14.2 **Amount to be recovered**

Premium plus NOT APPLICABLE percent (____%).

15.3 **Arbitration****

Place of Arbitration: _____

* (Procuring Agency to specify as appropriate)

** (It has to be in the Province of Sindh)

STANDARD FORMS

(Note: Standard Forms provided in this document for securities are to be issued by a bank. In case the bidder chooses to issue a bond for accompanying his bid or performance of contract or receipt of advance, the relevant format shall be tailored accordingly without changing the spirit of the Forms of securities).

FORM OF BID SECURITY
(Bank Guarantee)

Guarantee No. _____
Executed on _____

(Letter by the Guarantor to the Procuring Agency)

Name of Guarantor (Scheduled Bank in Pakistan) with address: _____

Name of Principal (Bidder) with address: _____

Sum of Security (express in words and figures): _____

Bid Reference No. _____ Date of Bid _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal, we the Guarantor above-named are held and firmly bound unto the _____, (hereinafter called The —Procuring Agency) in the sum stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has submitted the accompanying Bid numbered and dated as above for _____ (Particulars of Bid) to the said Procuring Agency; and

WHEREAS, the Procuring Agency has required as a condition for considering the said Bid that the Principal furnishes a Bid Security in the above said sum to the Procuring Agency, conditioned as under:

- (1) that the Bid Security shall remain valid for a period of twenty eight (28) days beyond the period of validity of the bid;
- (2) that in the event of;
 - (a) the Principal withdraws his Bid during the period of validity of Bid, or
 - (b) the Principal does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) of Instructions to Bidders, or
 - (c) failure of the successful bidder to
 - (i) furnish the required Performance Security, in accordance with Sub-Clause IB-21.1 of Instructions to Bidders, or
 - (ii) sign the proposed Contract Agreement, in accordance with Sub-Clauses IB-20.2 & 20.3 of Instructions to Bidders,

the entire sum be paid immediately to the said Procuring Agency for delayed completion and not as penalty for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract Agreement with the said Procuring Agency in accordance with his Bid as accepted and furnish within fourteen (14) days of receipt of Letter of Acceptance, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Procuring Agency for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Guarantor shall forthwith pay to the Procuring Agency the said sum stated above upon first written demand of the Procuring Agency without cavil or argument and without requiring the Procuring Agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Procuring Agency by registered post duly addressed to the Guarantor at its address given above.

PROVIDED ALSO THAT the Procuring Agency shall be the sole and final judge for deciding whether the Principal has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Guarantor shall pay without objection the sum stated above upon first written demand from the Procuring Agency forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above bounded Guarantor has executed the instrument under its seal on the date indicated above, the name and seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

Guarantor (Bank)

Witness:

1. Signature _____

1. _____

2. Name _____

Corporate Secretary (Seal)

3. Title _____

2. _____

(Name, Title & Address)

Corporate Guarantor (Seal)

**FORM OF PERFORMANCE SECURITY
(Bank Guarantee)**

Guarantee No. _____
Executed on _____
Expiry Date _____

(Letter by the Guarantor to the Procuring Agency)

Name of Guarantor (Scheduled Bank in Pakistan) with
address: _____

Name of Principal (Contractor) with
address: _____

Penal Sum of Security (express in words and
figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Procuring Agency) in the penal sum of the amount stated above, for the payment of which sum well and truly to be made to the said Procuring Agency, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Procuring Agency's above said Letter of Acceptance for _____
_____ (Name of Contract) for the _____
_____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Procuring Agency, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of the said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 9, Remedying Defects, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall

be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the Procuring Agency without delay upon the Procuring Agency's first written demand without cavil or arguments and without requiring the Procuring Agency to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Procuring Agency's written declaration that the Principal has refused or failed to perform the obligations under the Contract, for which payment will be effected by the Guarantor to Procuring Agency's designated Bank & Account Number.

PROVIDED ALSO THAT the Procuring Agency shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Procuring Agency forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above bounded Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Witness:

1. _____

Corporate Secretary (Seal)

2. _____

(Name, Title & Address)

Guarantor (Bank)

1. Signature _____

2. Name _____

3. Title _____

Corporate Guarantor (Seal)

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the —Agreement) made on the _____ day of _____ 200 _____ between Executive Engineer, Public Health Engg: Division Matiari, _____ (hereinafter called the —Procuring Agency) of the one part and _____ (hereinafter called the —Contractor) of the other part.

WHEREAS the Procuring Agency is desirous that certain Works, viz _____ should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnesseth as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any except those parts relating to Instructions to Bidders, shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Letter of Acceptance;
 - (b) The completed Form of Bid along with Schedules to Bid;
 - (c) Conditions of Contract & Contract Data;
 - (d) The priced Schedule of Prices/Bill of quantities (BoQ);
 - (e) The Specifications; and
 - (f) The Drawings
3. In consideration of the payments to be made by the Procuring Agency to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Procuring Agency to execute and complete the Works and remedy defects therein in conformity and in all respects within the provisions of the Contract.
4. The Procuring Agency hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Contract Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

(Seal)

Signature of the Procuring Agency

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

(Name, Title and Address)

Witness:

(Name, Title and Address)

MOBILIZATION ADVANCE GUARANTEE

Guarantee No. _____

Executed on _____

(Letter by the Guarantor to the Procuring Agency)

WHEREAS the _____ (hereinafter called the Procuring Agency) has entered into a Contract for

_____ (Particulars of Contract), with

_____ (hereinafter called the Contractor).

AND WHEREAS the Procuring Agency has agreed to advance to the Contractor, at the Contractor's request, an amount of Rs. _____ Rupees _____) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS the Procuring Agency has asked the Contractor to furnish Guarantee to secure the advance payment for the performance of his obligations under the said Contract.

AND WHEREAS _____ (Scheduled Bank) (hereinafter called the Guarantor) at the request of the Contractor and in consideration of the Procuring Agency agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW THEREFORE the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails, and commits default in fulfillment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Procuring Agency for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Procuring Agency shall be the sole and final judge, as aforesaid, on the part of the Contractor, shall be given by the Procuring Agency to the Guarantor, and on such first written demand payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall come into force as soon as the advance payment has been credited to the account of the Contractor.

This Guarantee shall expire not later than _____

by which date we must have received any claims by registered letter, telegram, telex or telefax.

It is understood that you will return this Guarantee to us on expiry or after settlement of the total amount to be claimed hereunder.

Witness:

1. _____

Corporate Secretary (Seal)

2. _____

(Name, Title & Address)

Guarantor (Scheduled Bank)

1. Signature _____

2. Name _____

3. Title _____

Corporate Guarantor (Seal)

INDENTURE FOR SECURED ADVANCES.

(For use in cases in which is contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time).

This INDENTURE made the day of
----- -197--"-BETWEEN (hereinafter called "the Contractor" which expression shall where the context so admits or implied be deemed to include his heirs, executors, administrators and assigns) of the one part and THE GOVERNOR OF SINDH (hereinafter called "the Government" of the other part).

WHEREAS by an agreement, dated (hereinafter called the said agreement, the contractor has agreed to perform the under-mentioned works (hereinafter referred to as the said work):-

(Here enter (the description of the works).¹

AND WHEREAS the contractor has applied to the
— for an advance to him of Rupees
(Rs.) on the security of materials absolutely belonging to him and brought by him to the site of the said works the subject of the said agreement for use in the construction of such of the said works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charge) AND WHEREAS the Government has agreed to advance to the Contractor the sum of Rupees,
(Rs.) on the security of materials the quantities and other particulars of which are detailed in Part II of Running Account Bill (E). the said works signed by the contractor
Fin R.Form.17.A

on ----- — and on such covenants and conditions as are hereinafter contained and the Government has reserved to itself the option of marking any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

NOW THIS INDENTURE WTTNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees
(Rs. -----) on or before the execution of these presents paid to the Contractor by the Government (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid (all of which advances are hereinafter collectively referred to as the said amount) the Contractor doth hereby assign unto the Government the said materials by way of security for the said amount

And doth hereby covenant and agree with the Government and declare ay follow :-

(1) That the said sum of Rupees
(RF. -----) so advanced by the Government to the Contractor as aforesaid and all or any further sum or sums which may be advanced aforesaid shall be employed by the contractor in or towards expending the execution of the said works and for no other purpose whatsoever.

(2) That the materials detailed in the said Running Account Bill (B) which have been

Fin R Form No. 17-A

Offered to and accepted by (he Government as security for the said amount are absolutely by the Contractors own property free from encumbrances of any kind and the Contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the contractor hereby agrees, at all times, to indemnify and save harmless the Government against all claims whatsoever to any materials in respect of which an advance has been made to him as aforesaid.

(3) That the said materials detailed in the said Running Account Bill (B) and all other

Fin. R. Form No. 17-A

Materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in *the* execution of the said works in accordance with the directions of the Divisional Officer ----- (hereinafter called the Divisional Officer) and in the terms of the said agreement.

(4) That the Contractor shall make at his own cost all necessary and adequate arrangement for the proper watch, safe custody and protection against all risks of the said material and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and at his own risk and on his own responsibility and shall at all times be open to inspection by (he Divisional Officer or any officer authorized by him. In the event of the said materials of any part (hereof being stolen, destroyed or damaged or becoming deteriorated in a grater degree than is due to reasonable use and wear thereof Contractor will forthwith replace the same with other materials of like qualify or repair and make good the same as required by the Divisional Officer and the materials so brought to replace the said materials so repaired and made good shall also be considered as security for the said amount.

(5) 'Hurt the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorized by him in that behalf

(6) That the said amount shall be payable in full when or before the Contractor receives payment, from the Government of the price payable to him for the said works under the terms and provisions of the said agreement PROVIDED THAT if any intermediate payments are made to the contractor on account of work done then on the occasion of each such payment the Government will be at liberty to make a recovery from the Contractors Bill for such payment by deducting there from in the value of the said materials (hen actually used in the construction and in respect of which recovery has not been made previously the value for this purpose being determined in respect of each description of material at (he rates at which the amount of the advances made under these presents were calculated.

(7) That if the Contractor shall at any time make any default in the performance or observation in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Government shall immediately on the happening of such default be repayable by the Contractor to the Government together with interest thereon at twelve

percent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the Government in or for the recovery thereof or the enforcement of this security or otherwise by reason of (the default of the Contractor and any moneys so becoming due and payable shall constitute a debt due from the Contractor to the Government and the Contractor hereby covenants and agrees with the Government to repay and the same respectively to it accordingly.

(8) That the Contractor hereby charges all the said materials with the repayment to the Government of the said sum of Rupees - (Rs.) and any further sum or sums which may be advanced as aforesaid and all costs charges damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whether the covenant for payment and repayment hereinbefore contained shall become enforceable and the money owing shall not be paid to accordingly.

Once therewith the Government may at any time thereafter adopt all or any of following courses as it may deem best :-

- (a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay the same to the Government on demand.
- (b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable to the Government under these presents and pay over the surplus (if any) to the Contractor.
- (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.

(9) That except as is expressly provided by the presents interest on the aid advance shall not be payable.

(10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been hereinbefore expressly provided for the same shall be referred to the Superintending Engineer Circle whose decision shall be final and the provisions of the Indian Arbitration Act for the time being in force so far as they are applicable shall apply to any such reference.

In witnesses whereof the* ----- — on behalf of the
Governor of Sindh and the said — --have hereunto set
their respective hands and seals the day and first above written.

Signed, sealed and delivered by*
In the presence of

Seal

1st witness 2nd witness

Signed, sealed and delivered by*
In the presence of

Seal

1st Witness 2nd witness

SPECIFICATIONS

[Note for Preparing the Specifications]

A set of precise and clear specifications is a prerequisite for bidders to respond realistically and competitively to the requirements of the user without qualifying their Bids. The specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, performance of the works. Only if this is done objectives of economy, efficiency, and fairness in procurement will be realized and responsiveness of Bids can be ensured, and the subsequent task of bid evaluation can be facilitated. The specifications should require that materials to be incorporated in the works be new, unused, and of the most recent or current models, and incorporated all recent improvements in design and materials unless provided for otherwise in the contract.

Samples of specifications from similar to previous procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the works and the repetitiveness of the type of procurement, it may be advantageous to standardize the Technical Specifications that should cover all classes of workmanship, materials and equipment although not necessarily to be used in a particular procurement.

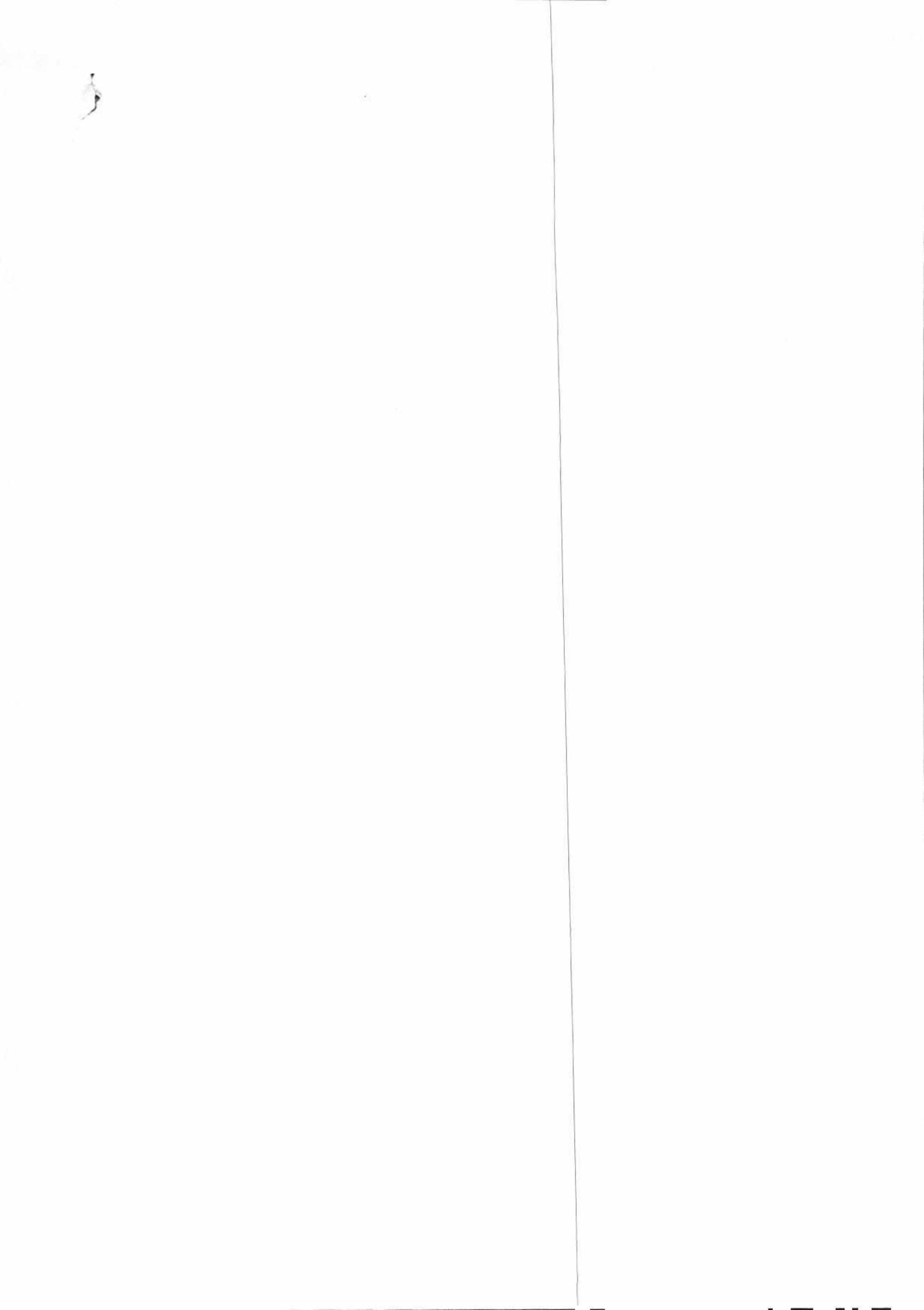
Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized international standards should be used as much as possible. The specifications shall consider all conditions but not limited to seismic conditions, weather conditions and environmental impact. The specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Specifications.

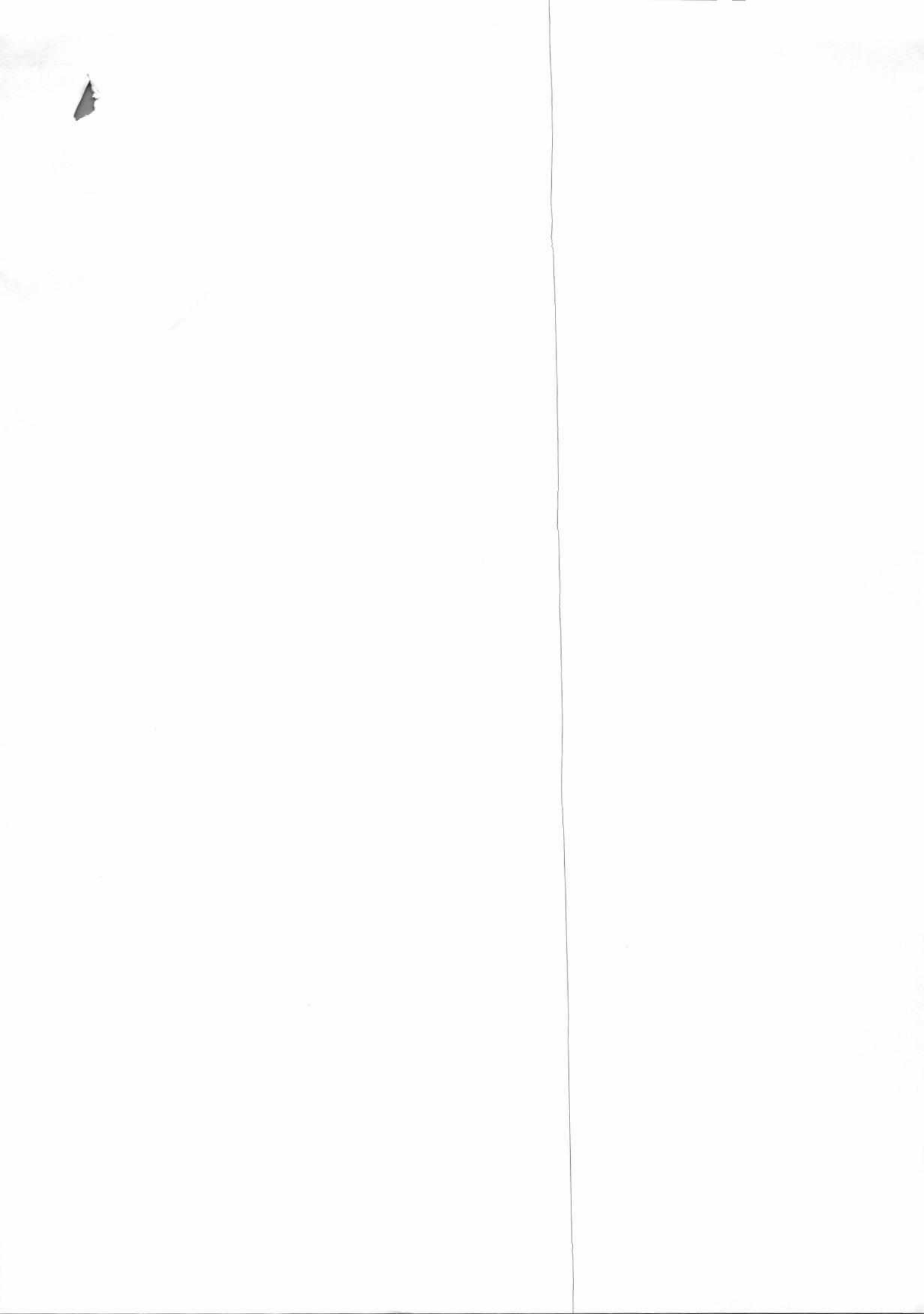
Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Specifications to specific standards and codes to be met by Works to be furnished and tested, the provisions of the latest current edition or revision of the relevant shall apply, unless otherwise expressly stated in the Contract. Other authoritative standards that ensure equivalence to the standards and codes specified will be acceptable.]

***DRAWINGS**

** (Note: The Engineer/Procuring Agency may incorporate specific Drawings for Bidding purposes only or may include the detailed drawings in a separate volume, if necessary).*





REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)


Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- **REHABILITATION OF WATER SUPPLY SCHEME OF TANDO HYDER DISTRICT HYDERABAD**

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-4000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | Rehabilitation of Water Supply Scheme Tando Hyder District Hyderabad. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 22.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 at 1.:00 PM |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh .

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: **REHABILITATION OF RURAL WATER SUPPLY**
SCHEME TANDO HYDER TALUKA HYDERABAD
(RURAL) DISTRICT HYDERABAD

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|---------------|
| <u>GROUP (A) P.E. RISING MAIN 8"DIA</u> | | | | | |
| 1. | Jungle clearance & removing with 100 ft (GSI No.4 P/95) | | | | |
| | 21000.0 Cft @Rs: 151/25 | P%o Sft | | | Rs: 3176/- |
| 2. | Excavation for pipe lines into trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer in charge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5'ft(1.52m) and lead upto one chain (30.5mm)(P.H.S.I.NO. 1 P/60) | | | | |
| | 96250.00 cft @Rs: 3600/- | P%ocft | | | Rs: 346500/- |
| 3. | Providing,laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polyethylene PE Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075B.S 3580 & PSI 3051 (PHSI No. F(1) P/25) | | | | |
| | 8"dia Pipe 11000.00 cft @Rs: 860/- | P.Rft | | | Rs: 9460000/- |
| 4. | Refilling the excavated stuff in trenches 6"thick layers i/c watering ramming to full compaction etc complete (PHSI No.24 P/77). | | | | |
| | 86625.0cft @Rs: 2760/- | P%ocft | | | Rs: 239085/- |
| 5. | High Density polyethylene (PE-100) fitting pcs Each (SMI No. B P/18) | | | | |
| i. | Elbow 90 degree (outer Dia) (SMINO. B P-18) P.No.8 – 225 mm | | | | |
| | 9 Nos @Rs: 6874/- | Each | | | Rs: 61866/- |
| | Elbow 45o | | | | |
| | 2 Nos @Rs: 5500/- | Each | | | Rs: 11000/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|--------------|
| ii. | Equal Tee (outer dia) (SMI No. B P/19) P.N 8 – 225 mm | | | | |
| | 1.0 No @Rs: 8249/- | Each | | | Rs: 8249/- |
| 6. | Air value double acting (Local) (SMI No 8 (b) P/12) | | | | |
| | 8" dia 7.00 Nos @Rs: 6000/- | Each | | | Rs: 42000/- |
| 7. | C.I sluice valve heavy pattern (SMI No.2 (b) P/11). (225mm) | | | | |
| | 8" dia 2.0 Nos @Rs: 23820/- | Each | | | Rs: 47640/- |
| 8. | Fire hydrant Tee (Screened outlets) (SMI No. 7 (c) P/11) | | | | |
| | 3" dia 7.00 Nos @Rs: 1687/50 | Each | | | Rs: 11813/- |
| 9. | Especial Cost Iron Fitting for PVC Pipe (SMI No.1 P/28). | | | | |
| i. | Tail piece 8" dia 4 Nos @Rs: 1907/- | Each | | | Rs: 7628/- |
| 10. | But Fusion Joint (SMI No. H P/20) 225 mm | | | | |
| | 12.00 Nos @Rs: 1800/- | Each | | | Rs: 21600s/- |
| 11. | Jointing CI/M.S flanged Pipe and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts bolts with washers etc and other tools required for jointing and testing the joints to the specified pressure etc complete (PHSI No.1 (d) P/40) (225mm) | | | | |
| | 6" dia 4.0 Joint @Rs: 1060/- | Each | | | Rs: 4240/- |
| 12. | Providing chamber 3' x 2'(915x615mm) inside dimension 4 ½ (1372mm) deep as per approved design for sluice valve 3"dia to 12"dia with 18 (457mm)dia inside cost iron cover and frame (wt=1 cwt 3qr)fixed in RCC 1:2:4(102mm)thick (with 5 lbs steel per cft)9" (2199mm) thick brick masonry wall set in 1:6 cement martyr 6"(1152mm)thick cement concrete 1:3:6 in foundation 1"(25mm) thick c.c 1:2:4 flooring ½" (12.5mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at 4every one foot beyond 2 ½" ft depth curing excavation back filling and disposal of surplus earth etc complete. (PHSI No.1 P/49) | | | | |
| | 9.00 Nos @Rs: 18820/- | Each | | | Rs: 169380/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|----------------------------------------------------------------------------------------------------------------|----------|------|--------------|-----------------------|
| 13. | Providing & fixing M.S. pipe 12" dia 3/8" thick M.S. sheet for causing of 8" dia P.E. pipe.(L.Q.R) | | | | |
| | 12" dia 70.00Rft @Rs: 2000/- | P.Rft | | | Rs: 140000/- |
| 14. | Externally Bitumen (asphalt) 3 layer to Black steel M.S. Pipe of 4.8 m, 5.6mm, 6.4mm, 7.1 mm.(SMINO.1 (f)P-23) | | | | |
| | 70.0 Rft @Rs: 701/07 | P.Rft | | | Rs: 49075/- |
| 15. | Jointing pipeline with welding at site. (SMINO.2 P-24) | | | | |
| | 226.08 Cft @Rs: 140/- | P.Inch | | | Rs: 31651/- |
| 16. | Horizontal boring for road crossing 15 inch dia i/c fitting Ms causing pipe 12 dia (LQR) | | | | |
| | 40.0 Rft @Rs: 2000/- | P.Rft | | | Rs: 80000/- |
| | | | | Total | Rs: 10734903/- |

GROUP 'B' DISTRIBUTION LINE

| | | | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|--------------|
| 1. | Dismantling & Removing road metalling. (GSINO.51 P-13) | | | | |
| | 27738.0 Cft @Rs: 605/- | P%Cft | | | Rs: 167812/- |
| 2. | Dismantling c.c. plain 1:2:4 (GSINO.19(c)P-10) | | | | |
| | 15750.00 Cft @Rs: 3327/50 | P%Cft | | | Rs: 524081/- |
| 3. | Excavation for pipe lines into trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer in charge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5'ft(1.52m) and lead upto one chain (30.5mm)(P.H.S.I.NO. 1 P/60) | | | | |
| | 250131.0 Cft @Rs: 3600/- | P%ocft | | | Rs: 900472/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|------|---------------|
| 4. | Providing Laying uPVC Pressure pipe of class 'B' (equivalent)make fixing in trenches i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 61 meter or 200 ft. (PHSINO.1(a.b.d)P-22) | | | | |
| | 6"dia 8000.0 Rft | @Rs: 262/- | P.Rft | | Rs: 2096000/- |
| | 4"dia 12850.0 Rft | @Rs: 137/- | P.Rft | | Rs: 1760450/- |
| | 3"dia 16700.0 Rft | @Rs: 90/- | P.Rft | | Rs: 1503000/- |
| 5. | PVC 'Z' Joint fitting. (SMINO. 8(I,ii) P-26) | | | | |
| i. | <u>PVC TEE</u> PVC TEE | | | | |
| | 6" dia 8 Nos | @Rs: 1800/- | Each | | Rs: 14400/- |
| | 4"dia 120 Nos | @Rs: 1181/- | Each | | Rs: 141720/- |
| | 3"dia 72 Nos | @Rs: 900/- | Each | | Rs: 64800/- |
| ii. | <u>PVC BEND</u> PVC Bend | | | | |
| | 6" dia 7 Nos | @Rs: 1913/- | Each | | Rs: 13391/- |
| | 4"dia 30 Nos | @Rs: 956/- | Each | | Rs: 28680/- |
| | 3"dia 48 Nos | @Rs: 731/- | Each | | Rs: 25088/- |
| 6. | Special cost iron fitting for PVC pipe.(SMINO.1 P-28) | | | | |
| i. | <u>PVC CROSS PLAIN</u> PVC Cross | | | | |
| | 6" dia 17 No | @Rs: 2475/- | Each | | Rs: 42075/- |
| | 4"dia 72 Nos | @Rs: 1298/- | Each | | Rs: 93456/- |
| | 3"dia 7 Nos | @Rs: 934/- | Each | | Rs: 6538/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|--------------|------|------|-------------|
| ii. | <u>PVC REDUCER PLAIN</u> | | | | |
| | 4"x 3" 30 Nos | @Rs: 1258/- | | Each | Rs: 37740/- |
| | 6"x 3" 6 Nos | @Rs: 1866/- | | Each | Rs: 11196/- |
| iii. | PVC. End Plug. | | | | |
| | 6"dia 7 Nos | @Rs: 850/- | | Each | Rs: 5950/- |
| | 4"dia 48 Nos | @Rs: 544/- | | Each | Rs: 26112/- |
| | 3"dia 252 Nos | @Rs: 382/- | | Each | Rs: 96264/- |
| iv. | C.I. Giboult Joint.(PHSMINO. 14 P-18) | | | | |
| | 6"dia 30 Nos | @Rs: 1062/50 | | Each | Rs: 31875/- |
| | 4"dia 24 Nos | @Rs: 731/25 | | Each | Rs: 17550/- |
| | 3"dia 8 Nos | @Rs: 568/75 | | Each | Rs: 4450/- |
| 7. | PVC Socket.(SMINO.111 P-27) | | | | |
| | 6"dia 12 Nos | @Rs: 1575/- | | Each | Rs: 18900/- |
| | 4"dia 12 Nos | @Rs: 1125/- | | Each | Rs: 13500/- |
| | 3"dia 12 Nos | @Rs: 405/- | | Each | Rs: 4860/- |
| 8. | C.I. Short Piece.(PHSMINO. 9 P-16) | | | | |
| | 6"dia 35 Nos | @Rs: 618/75 | | Each | Rs: 21656/- |
| | 4"dia 24 Nos | @Rs: 487/50 | | Each | Rs: 11700/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|------|----------------------|
| 9. | C.I. Sluice valve heavy pattern (Test Pressure)21.0kg/sq/cm or 300 lb/sq.inch)(imported)(SMINO. 2.(b) P-11) 6"dia 12 Nos | @Rs: 9360/- | Each | | Rs: 112320/- |
| | 4"dia 12 Nos | @Rs: 5460/- | Each | | Rs: 65520/- |
| 10. | Providing chamber 21/2x2 1/2 (750x750'mm) inside dia mansion 4 1/2'(1372mm) Deep as per approved design for sluice valve 3"to 12"dia with 18"(457mm)dia inside cost iron cover and frame (wt=1 Cwt 3 qr)fixed in RCC 1:2:4 (102 mm)thick (with 5 lbs steel per cft)9"(299mm)thick brick masonry walls set in 1:6 cement mortar 6"(1152mm)thick c.c 1:3:6 in foundation 1(25mm)thick c.c 1:2:4 flooring 1/2" (12.5mm)thick cement plaster 1:3 to all inside wall surface and top i/c providing and fixing M.S foot beyond 2 1/2"ft depth curing excavation back filling and disposal of surplus earth etc :complete(PHSINO.1P/49) | | | | |
| | 24.0 Nos | @Rs: 18820/- | Each | | Rs: 451680/- |
| 11. | Refilling the excavated stuff in trenches 6" thick layers i/c watering ramming to full compaction etc: complete.(PHSINO.24 P-77) | | | | |
| | 225118.0 Cft | @Rs: 2760/- | P%oCft | | Rs: 621325/- |
| 12. | Making joint to PVC specials fitting (i/c laying of specials and cost of solvent cement)of required diameter and testing the joint along with PVC pipeline 'B','C' and 'D' class to the specified and making good to all leaky joints etc: complete. (PHSINO.1 P-41) | | | | |
| | 6" 72.0 Nos | @Rs: 96/- | Each | | Rs: 6912/- |
| | 4" 48.0 Nos | @Rs: 70/- | Each | | Rs: 3360/- |
| | 3" 378.0 Nos | @Rs: 59/- | Each | | Rs: 22302/- |
| 13. | Jointing C.I/M..S. flanged pipe and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts bolts with washers etc: and other tools required for jointing and testing the joint to the specified pressure etc: complete.(PHSINO.1(d) P-40) | | | | |
| | 6" 30.0 Joint | @Rs: 938/- | P.Joint | | Rs: 28140/- |
| | 4" 24.0 Joint | @Rs: 513/- | P.Joint | | Rs: 12313/- |
| Total | | | | | Rs: 9076427/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|-----------------------|----------------|----------------|------------|
| 1 | P.E.Rising main 8"dia | 10734903/- | -- | 10734903/- |
| 2 | Distribution System | 9076427/- | -- | 9076427/- |
| | Total | 18342449 | -- | 18342449 |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS



PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)


Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- REHABILITATION OF RURAL WATER SUPPLY SCHEME
GOTH MORI/MORI SHAKH TALUKA HYDERABAD (RURAL)
DISTRICT HYDERABAD

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | Rehabilitation of Rural Water Supply Scheme Goth Mori / Mori Shakh. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 5.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 at 1.:00 PM |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


 PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sind

BILL OF QUANTITY

**(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SHEDULE OF RATES**

NAME OF WORK: REHABILITATION OF RURAL WATER SUPPLY
SCHEME TANDO HYDER TALUKA HYDERABAD
(RURAL) DISTRICT HYDERABAD

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'A' P/L/JOINTING & TESTING PVC DISTT: SYSTEM

- | | | | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------|--------------|
| 1. | Dismantling & Removing road metalling. (GSINO.51 P-13) | 3750.0 Cft | @Rs: 605/- | P%Cft | Rs: 22688/- |
| 2. | Dismantling c.c. plain 1:2:4 (GSINO.19(i)P-10) | 3366.0 Cft | @Rs: 3327/50 | P%Cft | Rs: 112004/- |
| 3. | Dismantling cement with brick aggregate. (GSINO.19(d)P-10) | 5100.0 Cft | @Rs: 907/50 | P%Cft | Rs: 46288/- |
| 4. | Excavation for pipe lines into trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer in charge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5'ft(1.52m) and lead upto one chain (30.5mm)(P.H.S.I.NO. 1 P/60) | 38486.50 Cft | @Rs: 3600/- | P%ocft | Rs: 138552/- |
| 5. | Carriage of 100cft/5 tons of all materials like stone aggregate, spawl, coal, lime, Surkhi etc: B.G Rail fastenings points and crossing bridges, Girders, pipe, Sheets Rails M.S Bars etc. or 1000 Nos 10"x5"x3" or 1000 Nos tiles 12"x6"x2"or 150 cft Of timber or 100 mounds of fuel wood by trucks or any other means owned by the Contractor.(SSINO.1 P/1)(Lead 1 miles) | 12216.00 Cft | @Rs: 407/- | P%cft | Rs: 49719/- |
| 6. | Refilling the excavated stuff in trenches 6" thick layers i/c watering ramming to full compaction etc: complete.(PHSINO.24 P-77) | 34637.0 Cft | @Rs: 2760/- | P%oCft | Rs: 95600/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|--------|--------------|
| 7. | Providing Laying uPVC Pressure pipe of class 'B' (equivalent)make fixing in trenches i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 61 meter or 200 ft. (PHSINO.1(a.b.c.d)P22) | | | | |
| | 4"dia 3200.0 Rft | @Rs: 137/- | | P.Rft | Rs: 438400/- |
| | 3"dia 4900.0 Rft | @Rs: 90/- | | P.Rft | Rs: 441000/- |
| 8. | Cost iron Special for PVC pipe. (SMINO. 1 P-28) | | | | |
| i. | C.I. Bend 90o 4"dia 3 Nos | @Rs: 893/75 | | Each | Rs: 2681/- |
| | 3"dia 13 Nos | @Rs: 650/- | | Each | Rs: 8450/- |
| 9. | C.I. Tee (Equal) 4"dia 15 Nos | @Rs: 1375/- | | Each | Rs: 20625/- |
| | 3"dia 5 Nos | @Rs: 968/75 | | Each | Rs: 4844/- |
| 10. | C.I. Reducer. 4"x 3" 1 No | @Rs: 568/75 | | Each | Rs: 569/- |
| 11. | C.I. End Plug. 4"dia 1 No | @Rs: 425/- | | Each | Rs: 425/- |
| | 3"dia 16 Nos | @Rs: 368/75 | | Each | Rs: 5900/- |
| 12. | C.I. Sluice valve heavy pattern (Test Pressure)21.0kg/sq/cm or 300 lb/sq.inch)(imported)(SMINO. 2.(b) P-11) | | | | |
| | 4"dia 6 Nos | @Rs: 5460/- | | Each | Rs: 32760/- |
| 13. | PVC Socket. (SMINO.III P-27) 4"dia 36 Nos | @Rs: 1125/- | | Each | Rs: 40500/- |
| | 3"dia 39 Nos | @Rs: 405/- | | Each | Rs: 15795/- |
| 14. | Rubber Ring Extra. (SMINO. 7 P-5) 4"dia 72 Nos | @Rs: 95/- | | P.Pair | Rs: 6840/- |
| | 3"dia 78 Nos | @Rs: 58/- | | P.Pair | Rs: 4524/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

15. Fixing of sluice valves with 2-cast iron tail pieces, one end flanged and other socket i/c the cost of nuts bolts and rubber packing labour etc: complete. (PHSINO11(c)P-12)

6"dia 4.0 Nos @Rs: 1886/- Each Rs: 7544/-

4"dia 6.0 Nos @Rs: 1532/- Each Rs: 9192/-

16. Providing chamber 21/2x2 1/2 (750x750' mm) inside dia mansion 4 1/2'(1372mm) Deep as per approved design for sluice valve 3"to 12"dia with 18"(457mm)dia inside cost iron cover and frame (wt=1 Cwt 3 qr)fixed in RCC 1:2:4 (102 mm)thick (with 5 lbs steel per cft)9"(299mm)thick brick masonry walls set in 1:6 cement mortar 6"(1152mm)thick c.c 1:3:6 in foundation 1(25mm)thick c.c 1:2:4 flooring 1/2" (12.5mm)thick cement plaster 1:3 to all inside wall surface and top i/c providing and fixing M.S foot beyond 2 1/2"ft depth curing excavation back filling and disposal of surplus earth etc :complete(PHSINO.1P/49)

10.0 Nos @Rs: 18820/- Each Rs: 188200/-

Total Rs: 1814236/-

GROUP 'B' PUMP HOUSE @ INTAKE WORK

1. Dismantling c.c. reinforced separating reinforcement from concrete cleaning and straightening the same.(GSINO.20 P-10)

120.0 Cft @Rs: 5445/- P%Cft Rs: 6534/-

2. Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" guage.(G.S.I.NO;6(a)P/17)

89.0 Cft @Rs: 337/- P.Cft Rs: 29993/-

3. Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars)(G.S.I.NO.8(b)P/17)

3.57 Cwt @Rs: 5001/70 P.Cwt Rs: 17856/-

4. Providing and laying 2" thick topping cement concrete (1:2:4)including surface finishing and dividing into panels (G.S.I.NO;16(d)P/42)

359.0 Sft @Rs: 3275/50 P%Sft Rs: 11759/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

| | | | | | |
|----|-------------------------------------------------------------------|-----------|--------------|-------|--------------------------|
| 5. | Cement plaster 1:4 up to 12' height 1/2" thick.(GSINO.11(b) P-52) | 323.0 Sft | @Rs: 2282/93 | P%Sft | Rs: 7377/- |
| 6. | White Wash Three Coats (GSINO.25(b)P/53) | 204.0 Sft | @Rs: 829/95 | P%Sft | Rs: 1693/- |
| | | | | | Total Rs: 75212/- |

GROUP 'C' PUMP HOUSE @ WATER WORK

| | | | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|-------|--------------------------|
| 1. | Dismantling c.c. reinforced separating reinforcement from concrete cleaning and straightening the same.(GSINO.20 P-10) | 120.0 Cft | @Rs: 5445/- | P%Cft | Rs: 6534/- |
| 2. | Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)\(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" guage.(G.S.I.NO;6(a)P/17) | 89.0 Cft | @Rs: 337/- | P.Cft | Rs: 29993/- |
| 3. | Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars(G.S.I.NO.8(b)P/17) | 3.57 Cwt | @Rs: 5001/70 | P.Cwt | Rs: 17856/- |
| 4. | Providing and laying 2" thick topping cement concrete (1:2:4)including surface finishing and dividing into panels (G.S.I.NO;16(d)P/42) | 359.0 Sft | @Rs: 3275/50 | P%Sft | Rs: 11759/- |
| 5. | Cement plaster 1:4 up to 12' height 1/2" thick.(GSINO.11(b) P-52) | 323.0 Sft | @Rs: 2282/93 | P%Sft | Rs: 7377/- |
| 6. | White Wash Three Coats (GSINO.25(b)P/53) | 204.0 Sft | @Rs: 829/95 | P%Sft | Rs: 1693/- |
| | | | | | Total Rs: 75212/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'D' C.C. WORK ON PATH OF STORAGE TANK

| | | | | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|---------------------------|--|
| 1. | C.C. brick or stone ballast ½" 2" guage 1:4:8.(GsINO.4 (b)P-14) | | | | |
| | 1504.0 Cft @Rs: 9416/28 | P%Cft | | Rs: 141697/- | |
| 2. | Erection and removal of centering for R.C.C. or plain cement concrete works of deodar wood (2 nd Class)(G.S.I.No:19 b(ii) P/17) | | | | |
| | 2416.0 Sft @Rs: 3127/41 | P%Sft | | Rs: 75559/- | |
| 3. | Cement concrete plain including placing compacting finishing and curing, complete (i/c screening and washing of stone aggregate without shuttering (GSI No5 P/15) R:1:2:4. | | | | |
| | 685.0 Cft @Rs: 14429/25 | P%Cft | | Rs: 98841/- | |
| | Ratio 1:3:6 | | | | |
| | 1092.0 Cft @Rs: 12595/- | P%Cft | | Rs: 137538/- | |
| 4. | Cement Plaster 1:4 upto 12' height ½" thick. (GSINO.11(b)P-52) | | | | |
| | 2912.0 Sft @Rs: 2283/93 | P%Sft | | Rs: 66500/- | |
| | | | | Total Rs: 520143/- | |

GROUP 'E' DE-SILTING OF STORAGE TANK (2 NOS)

| | | | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--------------------------|--|
| 1. | Earth work excavation in ashes, sand, soft, soil or silt clearance undressed lead upto 50'ft(GSINO.2 P-1) | | | | |
| | 14602.0 Cft @Rs: 1663/75 | P%oCft | | Rs: 24294/- | |
| 2. | Extra for wet earth work.(GSINO.15 P-4) | | | | |
| | 14602.0 Cft @Rs: 1058/75 | P%oCft | | Rs: 15459/- | |
| 3. | Carriage of 100cft/5 tons of all materials like stone aggregate, spawl, coal, lime, Surkhi etc: B.G Rail fastenings points and crossing bridges, Girders, pipe, Sheets Rails M.S Bars etc. or 1000 Nos 10"x5"x3" or 1000 Nos tiles 12"x6"x2"or 150 cft Of timber or 100 mounds of fuel wood by trucks or any other means owned by the Contractor.(SSINO.1 P/1)(Lead 1 miles) | | | | |
| | 14602.0 Cft @Rs: 407/- | P%Cft | | Rs: 59430/- | |
| | | | | Total Rs: 99188/- | |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'F' PUMPING MACHINERY

1. Supplying and installing in position i/c transportation to site of work at pangrio A.C electric pumping set consisting of A.C electric motor of type 10 BHP 1450 RPM 160L 60 coupled with KSB pump (ETA 100-315) size 5"x4 1/2" mounted on common steel frame or base plate capable of discharging 300 gallon minute against a head of 110 ft i/c installation of pumping set on c.c foundation ratio (1:2:4) and Ratio (1:4:8) with ballast with M.S nuts and bolts of 5/8" dia to be embedded in c.c foundation i/c providing and fixing on prepared board A.C cycles 3 phase 12/25 ampere trips rating push button type star delta starter complete with no volts and over lead release and required i/c providing and fixing on prepared board iron (clad) triple pole and neutral switch fuse with rewirable type fuse link carried 500 volts grade 30 ampere providing and fixing volts meter 0.500 volts and ampere meter 0.50 ampere installed on metaled board i/c providing and fixing metalled board to accommodated main or sub mains control switch's recessed in the wall size 3"x2"1/2" i/c providing phase indication bulbs with holder and providing internal electric electric wiring for mains with 12A plate size (1 1/2 x2) G.I plate curried and to ground at depth 7ft for base plate and testing of the pumping set against the required head for 72 hours etc complete.

(For Intake Works)3

Motor 10 BHP 1450 RPM

2.0 Sets @Rs: 743150/- P.Set Rs: 1486300/-

2. S/Installing Diesel Engine set i/c transportation to site D/S Landhi Diesel Engine 16 BHP (Golden made) type GD-1100-B 2200 RPM i/c standard accession coupled with (KSB Non clogging pump type KWp2-65-315 capable discharge 180 GPM against head of 80 ft: mounted on common steel frame or base plate i/c installing of diesel pumping set of c.c. foundation Ratio 1:2:4 with M.S. nut & bolt of 5/8" dia to be embedded in c.c. foundation plinth of the pumping set for 72 hours under actual working condition etc: complete.

1.0 Set @Rs: 558257/- P.Set Rs: 558257/-

3. Manufacturing and installing M.S pipe made out of M.S lead 3/16" thick bending folding to correct curvature and shape i/c melding complete (R.A Approved Based on schedule)

48.0 Rft @Rs: 506/60 P.Rft Rs: 24316/-

4. Manufacturing and installing with welding M.S flanged made out of M.S sheet 4/8" thick i/c cutting drilling holes etc complete (R.A. Base of Schedule)

For 4"Dia

12.0 Nos @Rs: 596/75 Each Rs: 7161/-

5. C.I. Sluice valve heavy pattern (Test pressure) 21.0 kg/sq.com or 300lb/sq.inch)(imported)(SMINO..2(b)P-12)

3"dia

2 No @Rs: 4290/- Each Rs: 8580/-

4"dia 2 No @Rs: 5460/- Each Rs: 10920/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|----------------------------|
| 6. | Reflex valve heavy pattern (Test pressure 21 kg/sq.cm or 300 lbs/sq.inch)(imported)(SMINO.6(a)P-12) | | | | |
| | 3"dia 2 No @Rs: 1543/75 | Each | | | Rs: 3088/- |
| | 4"dia 2 No @Rs: 1706/25 | Each | | | Rs: 3413/- |
| 7. | Foot valve heavy pattern with cone type gate.(imported)(SMINO. 4(a)P-12) | | | | |
| | 4"dia 2 No @Rs: 893/75 | Each | | | Rs: 1788/- |
| 8. | C.I tappers flat bottomed or central tapered flanged end with holes i/c turning and facing of flanged for all sizes (SMI NO 9 P/12) | | | | |
| | 0.97 Cwt @Rs: 6096/- | P.Cwt | | | Rs: 5913/- |
| 9. | C.I.Bend with flanged end with holes i/c turning and facing of flanges for all sizes. (SMINO. 8 P-12) | | | | |
| | 1.20 Cwt @Rs: 6096/- | P.Cwt | | | Rs: 7315/- |
| 10. | C.I. Tee flanged end with holes including turning and facing of flanged for all size. (SMINO.12 P-12) | | | | |
| | 0.22 Cwt @Rs: 6096/- | P.Cwt | | | Rs: 1371/- |
| 11. | Jointing C.I/M.S. flanged pipes and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts, bolts with washers etc: and other tools required for jointing and testing the joints to the specified pressure etc: complete.(PHSINO. N-1 P-40) | | | | |
| | 24.0 Joint @Rs: 513/- | P.Joint | | | Rs: 12312/- |
| | c) FOR 3"dia 8.0 Joint @Rs: 499/- | P.Joint | | | Rs: 3992/- |
| | | | | | Total Rs: 2167195/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|--------------------------------------|----------------|----------------|-----------|
| 1 | Distribution System | 1814236/- | -- | 1814236/- |
| 2 | Repair of Pump @ Intake Work | 75212/- | -- | 75212/- |
| 3 | Repair of Pump @ Water Work | 75212/- | -- | 75212/- |
| 4 | C.C.Work on Path of Storage Tank | 520143/- | -- | 520143/- |
| 5 | De-Silting of Storage Tanks (02 Nos) | 99188/- | -- | 99188/- |
| 6 | Pumping Machinery | 122638/- | 2044557/- | 2167195/- |
| 7 | Angle iron Grill | 123163/- | -- | 123163 |
| | Total | 2829792/- | 2044557/- | 4873720/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


 PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- REHABILITATION OF RURAL WATER SUPPLY SCHEME
TANDO GHULAM MOHAMMAD DISTRICT HYDERABAD

Issued to M/s _____ Government Contractor
D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-

STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | Rehabilitation of Rural Water Supply Scheme Tando Ghulam Mohammad. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 5.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 at 1.:00 PM |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sind

BILL OF QUANTITY

**(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SHEDULE OF RATES**

**NAME OF WORK:- RE-HABILITATION OF RURAL WATER SUPPLY SCHEME TANDO
GHULAM MUHAMMAD TALUKA HYDERABAD (RURAL) DISTRICT HYDERABAD**

| S. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|-------|--------------------------------------------|----------|------|------|--------|
|-------|--------------------------------------------|----------|------|------|--------|

GROUP 'A' P/L/JOINTING & TESTING PVC DISTRIBUTION SYSTEME

1. Dismantling & removing road metalling (GSI No.51 P/13).

3262.50 Cft @ Rs. 605.00 P%Cft Rs. 19738 /-

2. Dismantling C.C Plain 1:2:4 (GSI No.19 (1) P/10).

2425.50 Cft @ Rs. 3327.50 P%Cft Rs. 80709 /-

3. Dismantling Cement with brick aggregate (GSI No.19 (d) P/10).

1837.50 Cft @ Rs. 907.50 P%Cft Rs. 16675 /-

4. Excavation for pipe line entrenches, and pits in soft soil i/c Trimming and dressing sides to true alignment and shape leveling Of beds of trenches to correct level and grade, cutting joint holes And disposal of surplus earth within a one chain as directed by Engineer Incharge, providing fence guards lights, flange and temporary Crossing for non vehicular traffic where ever required lift upto 5 ft (1.52 m) and lead upto 1 chain. (30.5 m) (PHSI No.1 P-46)

22354.50 Cft @ Rs. 3600.00 P%oCft Rs. 80476 /-

5. Carriage of 100 cft./5 Tons of all materials like stone aggregate, spawal coal, lime, surkhi, etc. BG. Rails fastenings points and crossing Bridges, Girders, Pipes, Sheets Rails, M.S. Bars etc. or 1000 Nos. bricks, 10"x5"x3" or 1000 Nos. tiles 12"x6"x2" or 150 cft. of timber or 100 maunds of fuel wood by truck or any other means owned by the contractors. (Car. S.I. No.1 P.No.1)

7525.50 Cft @ Rs. 407.00 P%Cft Rs. 30629 /-

6. Refilling the excavated earth stuff in trenches 6" layers i/c watering ramming to full completion etc complete. (PHSI No.24 P-65).

20119.10 Cft @ Rs. 2760.00 P%oCft Rs. 55529 /-

7. Providng Laying uPVC pressure pipe of class 'B' (equivalent) make fixing in trenches i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to head 61 meter or 200 ft (PHSI No.1)a,b,cd)P/22).

For 6" dia

600.00 Rft @ Rs. 262.00 P.Rft Rs. 157200 /-

For 4" dia

1500.00 Rft @ Rs. 137.00 P.Rft Rs. 205500 /-

For 3" dia

| | | | | | | | | |
|---------|-----|---|-----|-------|-------|-----|--------|----|
| 2000.00 | Rft | @ | Rs. | 90.00 | P.Rft | Rs. | 180000 | /- |
|---------|-----|---|-----|-------|-------|-----|--------|----|

8.Cast of iron Special for PVC pipe (SMI No.1 P/28).

For 6" dia

| | | | | | | | | |
|------|----|---|-----|---------|------|-----|------|----|
| 4.00 | No | @ | Rs. | 2212.50 | Each | Rs. | 8850 | /- |
|------|----|---|-----|---------|------|-----|------|----|

For 4" dia

| | | | | | | | | |
|------|----|---|-----|--------|------|-----|------|----|
| 3.00 | No | @ | Rs. | 893.75 | Each | Rs. | 2681 | /- |
|------|----|---|-----|--------|------|-----|------|----|

For 3" dia

| | | | | | | | | |
|-------|----|---|-----|--------|------|-----|------|----|
| 13.00 | No | @ | Rs. | 650.00 | Each | Rs. | 8450 | /- |
|-------|----|---|-----|--------|------|-----|------|----|

9.C.I Tee (Equal)

For 6" dia

| | | | | | | | | |
|------|----|---|-----|---------|------|-----|-------|----|
| 8.00 | No | @ | Rs. | 1950.00 | Each | Rs. | 15600 | /- |
|------|----|---|-----|---------|------|-----|-------|----|

For 4" dia

| | | | | | | | | |
|-------|----|---|-----|---------|------|-----|-------|----|
| 15.00 | No | @ | Rs. | 1375.00 | Each | Rs. | 20625 | /- |
|-------|----|---|-----|---------|------|-----|-------|----|

For 3" dia

| | | | | | | | | |
|-------|----|---|-----|--------|------|-----|------|----|
| 10.00 | No | @ | Rs. | 968.75 | Each | Rs. | 9688 | /- |
|-------|----|---|-----|--------|------|-----|------|----|

10.C.I Reducer

For 6"x4"

| | | | | | | | | |
|------|----|---|-----|---------|------|-----|------|----|
| 1.00 | No | @ | Rs. | 1137.50 | Each | Rs. | 1138 | /- |
|------|----|---|-----|---------|------|-----|------|----|

For 4" x3"

| | | | | | | | | |
|------|----|---|-----|--------|------|-----|-----|----|
| 1.00 | No | @ | Rs. | 568.75 | Each | Rs. | 569 | /- |
|------|----|---|-----|--------|------|-----|-----|----|

11.C.I End Plug

For 4" dia

| | | | | | | | | |
|------|----|---|-----|--------|------|-----|-----|----|
| 1.00 | No | @ | Rs. | 425.00 | Each | Rs. | 425 | /- |
|------|----|---|-----|--------|------|-----|-----|----|

For 3" dia

| | | | | | | | | |
|-------|----|---|-----|--------|------|-----|------|----|
| 16.00 | No | @ | Rs. | 368.75 | Each | Rs. | 5900 | /- |
|-------|----|---|-----|--------|------|-----|------|----|

12.C.I Sluice valve heavy pattern (Test Pressure) 21.0Kg/sq/xm or 300
Ins/sq.inch(importe)(SMI No,2(b) P-11).**For 6" dia**

| | | | | | | | | |
|------|----|---|-----|---------|------|-----|------|----|
| 1.00 | No | @ | Rs. | 9360.00 | Each | Rs. | 9360 | /- |
|------|----|---|-----|---------|------|-----|------|----|

For 4" dia

| | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|-----|----------|------|-----|-------------------|
| 1.00 | No | @ | Rs. | 5460.00 | Each | Rs. | 5460 /- |
| 13. PVC Socket (SMI No, III P-27). | | | | | | | |
| For 6" dia | | | | | | | |
| 12.00 | No | @ | Rs. | 1575.00 | Each | Rs. | 18900 /- |
| For 4" dia | | | | | | | |
| 36.00 | No | @ | Rs. | 1125.00 | Each | Rs. | 40500 /- |
| For 3" dia | | | | | | | |
| 39.00 | No | @ | Rs. | 405.00 | Each | Rs. | 15795 /- |
| 14. Rubber Ring Extra (SMI No, 7 P-5). | | | | | | | |
| For 6" dia | | | | | | | |
| 24.00 | No | @ | Rs. | 129.00 | Each | Rs. | 3096 /- |
| For 4" dia | | | | | | | |
| 72.00 | No | @ | Rs. | 95.00 | Each | Rs. | 6840 /- |
| For 3" dia | | | | | | | |
| 78.00 | No | @ | Rs. | 58.00 | Each | Rs. | 4524 /- |
| 15. Fixing of sluice valves with 2- cast iron tail pieces, one end flanged and other socket i/c the cost of nuts bolts and rubber packing labour etc complete (PHSI NO.11©P-112). | | | | | | | |
| For 6" dia | | | | | | | |
| 1.00 | No | @ | Rs. | 1886.00 | Each | Rs. | 1886 /- |
| For 4" dia | | | | | | | |
| 1.00 | No | @ | Rs. | 1532.00 | Each | Rs. | 1532 /- |
| 16. Providing Chamber 2-1/2x2/2(750x750 MM) inside dimension 4x1/2 ft deep as per approved designed for sluice valve 3" to 12" dia inside C.I cover and frame (wt: 1cwt 3sq fixed in RCC (1:2:4) thick with 5lbs steel per cft thick mortar 6" thick cement concrete (1:3:6) foundation 1" thick cement concrete 1:2:4 flooring 1/2 (12.5mm) thick cement plaster (1:3) in all inside wall surface and to top i/c providing and fixing M.S foot rest at every one foot beyond etc complete. (PHSI No. I P-41). | | | | | | | |
| 2.00 | No | @ | Rs. | 18820.00 | Each | Rs. | 37640 /- |
| TOTAL: | | | | | | Rs. | 1045914 /- |

GROUP 'B' PUMP HOUSE @ INTAKE WORK

1. Excavation in foundation of building bridges and other structure i/c belling dressing refilling around structure with excavated earth watering and ramming lead up to 5 ft in ordinary soil (in as I No:18 (b)p-4)

283.44 Cft @ Rs. 3176.25 P%oCft Rs. 900 /-

2. C.C brick or stone ballast 1 1/2" to 2" guage (GSI No.4(b) P/17).

Ratio 1:4:8

58.75 Cft @ Rs. 9416.28 P%oCft Rs. 5532 /-

b) Ratio 1:5:10 Under floor of Pump House

57.28 Cft @ Rs. 8694.95 P%oCft Rs. 4980 /-

3. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio (1:3:6). (GSI: 5,P-16)

235.00 Cft @ Rs. 12595.00 P%oCft Rs. 29598 /-

4. Errection and removal of centering for RCC or plain cement concrete work of deodar wood (2nd class)vertical (GSI NO.19(a)(ii) P/19).

470.00 Cft @ Rs. 3127.41 P%oCft Rs. 14699 /-

5. Pucca brick work in ground floor i/c striking joint in cement sand mortar (1:6) (GSI No.5(i)(e) -P20).

419.44 Cft @ Rs. 12674.36 P%oCft Rs. 53161 /-

6. Reinforcement cement concrete work including all labours and made except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) (a) R.C work in roof slab, beams columns rafts lintels and other structural members laid in situ or pre cast laid in position complete in all respect (i) (Ratio 1:2:4) 90lbs cement 2 cft sand 4cft shingle 1/8" to 1/4" gauge (GSI No.6(a)(i) P/19).

98.09 Cft @ Rs. 337.00 P.Cft Rs. 33056 /-

7. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints & fastening i/c cost of binding wire (also includes removal rust from bars) (GSI: No: 7(ii) P-19)

4.41 Cwt @ Rs. 5001.70 P.Cwt Rs. 22057 /-

8. Filling watering and ramming earth under floor with new earth excavated from out side lead up to one chain & lift up to 5 ft (GSI No.22 P/4).

| | | | | | | | | |
|--------|-----|---|-----|---------|--------|-----|-----|----|
| 114.56 | Cft | @ | Rs. | 3630.00 | P%oCft | Rs. | 416 | /- |
|--------|-----|---|-----|---------|--------|-----|-----|----|

9. Providing and laying 2" thick topping cement concrete (1:2:4) including surface finishing and dividing into panells (GSI No.16(d)P/41).

| | | | | | | | | | |
|--------|-----|-----|---|-----|---------|-------|-----|------|----|
| 120.00 | Cft | Sft | @ | Rs. | 3275.50 | P%Sft | Rs. | 3931 | /- |
|--------|-----|-----|---|-----|---------|-------|-----|------|----|

10. Cement Plaster 1:4 upto 12" height 1/2 thick (GSI No.10(b)P/51).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|-------|----|
| 969.50 | Sft | @ | Rs. | 2283.93 | P%Sft | Rs. | 22143 | /- |
|--------|-----|---|-----|---------|-------|-----|-------|----|

11. White wash 1 coat (GSI No.26(a) P/54)

| | | | | | | | | |
|-----|-----|---|-----|--------|-------|-----|------|----|
| 909 | Sft | @ | Rs. | 416.63 | P%Sft | Rs. | 3787 | /- |
|-----|-----|---|-----|--------|-------|-----|------|----|

12. White wash 3 coats (GSI No.26(c) P/54)

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|-----|------|----|
| 204.00 | Sft | @ | Rs. | 829.95 | P%Sft | Rs. | 1693 | /- |
|--------|-----|---|-----|--------|-------|-----|------|----|

13. Clour wash 2 coats (GSI No.25(b) P/53)

| | | | | | | | | |
|-----|-----|---|-----|--------|-------|-----|------|----|
| 909 | Sft | @ | Rs. | 859.90 | P%Sft | Rs. | 7816 | /- |
|-----|-----|---|-----|--------|-------|-----|------|----|

14. Making & Fixing steel grated doors with 1/16" thick sheeting i/c angle iron from 2"x2" 3/8" sq bars 4" center to center with locking arrangement (GSI No.24 P/91).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 22.75 | Sft | @ | Rs. | 726.72 | P.Sft | Rs. | 16533 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

15. Painting new surface preparing surface and painting doors windows of any type i/c edge (GSI No 41 P/62).

| | | | | | | | | |
|-------|-----|---|-----|---------|-------|-----|-----|----|
| 45.50 | Sft | @ | Rs. | 2116.41 | P%Sft | Rs. | 963 | /- |
|-------|-----|---|-----|---------|-------|-----|-----|----|

16. Supplying and fixing in position iron steel gril of 3/4"x1/4" size flat iron of approved design i/c painting 3 coats etc complete (weight not to be less than 3.7 Lbs/sq ft finished girl (GSI No.26 P/93).

| | | | | | | | | |
|------|-----|---|-----|--------|-------|-----|---|----|
| 0.00 | Sft | @ | Rs. | 180.50 | P.Sft | Rs. | 0 | /- |
|------|-----|---|-----|--------|-------|-----|---|----|

17. Fabrication of heavy steel work with angles, Tee, flat iron and sheet iron for making trusses girders tanks etc i/c cutting bending handing assembling and fixing but excluding erection in position (GSI No.2 P/96).

| | | | | | | | | |
|------|-----|---|-----|---------|-------|-----|-------|----|
| 2.54 | Cwt | @ | Rs. | 4928.00 | P.Cwt | Rs. | 12517 | /- |
|------|-----|---|-----|---------|-------|-----|-------|----|

18. Erection and fitting in position of iron trusses staging of water tank etc (GSI No.2 P/96).

| | | | | | | | | | |
|---------------|-----|---|-----|--------|-------|--|-----|---------------|----|
| 2.54 | Cwt | @ | Rs. | 271.06 | P.Cwt | | Rs. | 688 | /- |
| TOTAL: | | | | | | | Rs. | <u>234472</u> | /- |

GROUP 'C' PUMP HOUSE @ WATER WORK

1. Dismantling CC reinforced separating reinforcement from concrete cleaning and straightening the same (GSI No.20 P/10).

| | | | | | | | | | |
|-------|-----|---|-----|---------|-------|--|-----|------|----|
| 95.84 | Cft | @ | Rs. | 5445.00 | P%Cft | | Rs. | 5218 | /- |
|-------|-----|---|-----|---------|-------|--|-----|------|----|

2. Dismantling brick work in lime or cement mortar (GSI No.13 P/10).

| | | | | | | | | | |
|-----|-----|---|-----|---------|-------|--|-----|------|----|
| 318 | Cft | @ | Rs. | 1285.63 | P%Cft | | Rs. | 4088 | /- |
|-----|-----|---|-----|---------|-------|--|-----|------|----|

3. Dismantling C.C Plain 1:3:6 (GSI No.19 (b) P/10).

| | | | | | | | | | |
|-----|-----|---|-----|---------|-------|--|-----|------|----|
| 165 | Cft | @ | Rs. | 1306.80 | P%Cft | | Rs. | 2156 | /- |
|-----|-----|---|-----|---------|-------|--|-----|------|----|

4. Excavation in foundation of building bridges and other structure i/c belling dressing refilling around structure with excavated earth watering and ramming lead up to 5 ft in ordinary soil (in as I No:18 (b)p-4)

| | | | | | | | | | |
|--------|-----|---|-----|---------|--------|--|-----|-----|----|
| 283.44 | Cft | @ | Rs. | 3176.25 | P%oCft | | Rs. | 900 | /- |
|--------|-----|---|-----|---------|--------|--|-----|-----|----|

5. C.C brick or stone ballast 1 1/2" to 2" guage (GSI No.4(b) P/17).

Ratio 1:4:8

| | | | | | | | | | |
|-------|-----|---|-----|---------|-------|--|-----|------|----|
| 58.75 | Cft | @ | Rs. | 9416.28 | P%Cft | | Rs. | 5532 | /- |
|-------|-----|---|-----|---------|-------|--|-----|------|----|

b) Ratio 1:5:10 Under floor of Pump House

| | | | | | | | | | |
|-------|-----|---|-----|---------|-------|--|-----|------|----|
| 57.28 | Cft | @ | Rs. | 8694.95 | P%Cft | | Rs. | 4980 | /- |
|-------|-----|---|-----|---------|-------|--|-----|------|----|

6. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio (1:3:6). (GSI: 5,P-16)

| | | | | | | | | | |
|--------|-----|---|-----|----------|-------|--|-----|-------|----|
| 164.50 | Cft | @ | Rs. | 12595.00 | P%Cft | | Rs. | 20719 | /- |
|--------|-----|---|-----|----------|-------|--|-----|-------|----|

7. Erection and removal of centering for RCC or plain cement concrete work of deodar wood (2nd class) vertical (GSI NO.19(a)(ii) P/19).

| | | | | | | | | | |
|--------|-----|---|-----|---------|-------|--|-----|-------|----|
| 329.00 | Cft | @ | Rs. | 3127.41 | P%Cft | | Rs. | 10289 | /- |
|--------|-----|---|-----|---------|-------|--|-----|-------|----|

8. Pucca brick work in ground floor i/c striking joint in cement sand mortar (1:6) (GSI No.5(i)(e) -P20).

| | | | | | | | | | |
|--------|-----|---|-----|----------|-------|--|-----|-------|----|
| 419.44 | Cft | @ | Rs. | 12674.36 | P%Cft | | Rs. | 53161 | /- |
|--------|-----|---|-----|----------|-------|--|-----|-------|----|

9.Reinforcement cement concrete work including all labours and made except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds,lifting shuttering curing rendering and finishing the exposed surface(including screening and washing of shingle)(a)R.C work in roof slab, beams columns rafts lintels and other structural members laid in situ or pre cast laid in position complete in all respect (i)(Ratio 1:2:4)90lbs cement 2 cft sand 4cft shingle 1/8" to 1/4" gauge (GSI No.6(a)(i)P/19).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 98.09 | Cft | @ | Rs. | 337.00 | P.Cft | Rs. | 33056 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

10.Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints & fastening i/c cost of binding wire (also includes removal rust from bars)(GSI: No: 7(ii) P-19)

| | | | | | | | | |
|------|-----|---|-----|---------|-------|-----|-------|----|
| 4.41 | Cwt | @ | Rs. | 5001.70 | P.Cwt | Rs. | 22057 | /- |
|------|-----|---|-----|---------|-------|-----|-------|----|

11.Filling watering and ramming earth under floor with new earth excavated from out side lead up to one chain & lift up to 5 ft (GSI No.22 P/4).

11.75 x 9.75 x 1.00 = 114.56 Cft

| | | | | | | | | |
|--------|-----|---|-----|---------|--------|-----|-----|----|
| 114.56 | Cft | @ | Rs. | 3630.00 | P%oCft | Rs. | 416 | /- |
|--------|-----|---|-----|---------|--------|-----|-----|----|

12.Providing and laying 2" thick topping cement concrete (1:2:4) including surface finishing and dividing into panells (GSI No.16(d)P/41).

| | | | | | | | | | |
|--------|-----|-----|---|-----|---------|-------|-----|------|----|
| 120.00 | Cft | Sft | @ | Rs. | 3275.50 | P%Sft | Rs. | 3931 | /- |
|--------|-----|-----|---|-----|---------|-------|-----|------|----|

13.Cement Plaster 1:4 upto 12" height 1/2 thick (GSI No.10(b)P/51).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|-------|----|
| 940.25 | Sft | @ | Rs. | 2283.93 | P%Sft | Rs. | 21475 | /- |
|--------|-----|---|-----|---------|-------|-----|-------|----|

14.White wash 1 coat (GSI No.26(a) P/54)'

| | | | | | | | | |
|-----|-----|---|-----|--------|-------|-----|------|----|
| 909 | Sft | @ | Rs. | 416.63 | P%Sft | Rs. | 3787 | /- |
|-----|-----|---|-----|--------|-------|-----|------|----|

15.White wash 3 coats (GSI No.26(c) P/54)'

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|-----|------|----|
| 204.00 | Sft | @ | Rs. | 829.95 | P%Sft | Rs. | 1693 | /- |
|--------|-----|---|-----|--------|-------|-----|------|----|

16.Clour wash 2 coats (GSI No.25(b) P/53)'

| | | | | | | | | |
|-----|-----|---|-----|--------|-------|-----|------|----|
| 909 | Sft | @ | Rs. | 859.90 | P%Sft | Rs. | 7816 | /- |
|-----|-----|---|-----|--------|-------|-----|------|----|

17.Making & Fixing steel grated doors with 1/16" thick sheeting i/c angle iron from 2"x2" 3/8" sq bars 4" center to center with locking arrangement (GSI No.24 P/91).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 22.75 | Sft | @ | Rs. | 726.72 | P.Sft | Rs. | 16533 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

18.Painting new surface preparing surface and painting doors windows of any type i/c edge (GSI No 41 P/62).

| | | | | | | | | |
|-------|-----|---|-----|---------|-------|-----|-----|----|
| 45.50 | Sft | @ | Rs. | 2116.41 | P%Sft | Rs. | 963 | /- |
|-------|-----|---|-----|---------|-------|-----|-----|----|

19. Supplying and fixing in position iron steel grill of 3/4"x1/4" size flat iron of approved design i/c painting 3 coats etc complete (weight not to be less than 3.7 Lbs/sq ft finished grill) (GSI No.26 P/93).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|------|----|
| 30.00 | Sft | @ | Rs. | 180.50 | P.Sft | Rs. | 5415 | /- |
|-------|-----|---|-----|--------|-------|-----|------|----|

20. Fabrication of heavy steel work with angles, Tee, flat iron and sheet iron for making trusses girders tanks etc i/c cutting bending handling assembling and fixing but excluding erection in position (GSI No.2 P/96).

| | | | | | | | | |
|------|-----|---|-----|---------|-------|-----|-------|----|
| 2.54 | Cwt | @ | Rs. | 4928.00 | P.Cwt | Rs. | 12517 | /- |
|------|-----|---|-----|---------|-------|-----|-------|----|

21. Erection and fitting in position of iron trusses staging of water tank etc (GSI No.2 P/96).

| | | | | | | | | |
|------|-----|---|-----|--------|-------|-----|-----|----|
| 2.54 | Cwt | @ | Rs. | 271.06 | P.Cwt | Rs. | 688 | /- |
|------|-----|---|-----|--------|-------|-----|-----|----|

| | | | | | | | | |
|---------------|--|--|--|--|--|------------|---------------|-----------|
| TOTAL: | | | | | | Rs. | 225930 | /- |
|---------------|--|--|--|--|--|------------|---------------|-----------|

GROUP 'D' COMPOUND WALL

1. Excavation in foundation of building bridges and other structure i/c belling dressing refilling around structure with excavated earth watering and ramming lead up to 5 ft in ordinary soil (in as I No:18 (b)p-4)

| | | | | | | | | |
|---------|-----|---|-----|---------|--------|-----|-------|----|
| 3648.00 | Cft | @ | Rs. | 3176.25 | P%oCft | Rs. | 11587 | /- |
|---------|-----|---|-----|---------|--------|-----|-------|----|

2. C.C brick or stone ballast 1 1/2" to 2" gauge (GSI No.4(b) P/17).

Ratio 1:4:8

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|-------|----|
| 912.00 | Cft | @ | Rs. | 9416.28 | P%Cft | Rs. | 85876 | /- |
|--------|-----|---|-----|---------|-------|-----|-------|----|

3. Erection and removal of centering for RCC or plain cement concrete work of deodar wood (2nd class) vertical (GSI NO.19(a)(ii) P/19).

| | | | | | | | | |
|---------|-----|---|-----|---------|-------|-----|--------|----|
| 7224.00 | Cft | @ | Rs. | 3127.41 | P%Cft | Rs. | 225924 | /- |
|---------|-----|---|-----|---------|-------|-----|--------|----|

4. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio (1:3:6). (GSI: 5,P-16)

| | | | | | | | | |
|---------|-----|---|-----|----------|-------|-----|--------|----|
| 3612.00 | Cft | @ | Rs. | 12595.00 | P%Cft | Rs. | 454931 | /- |
|---------|-----|---|-----|----------|-------|-----|--------|----|

5. Pucca brick work in other than building in cement sand mortar (1:6) (GSI No.7(d)(e) - P22).

| | | | | | | | | |
|---------|-----|---|-----|----------|-------|-----|--------|----|
| 2170.35 | Cft | @ | Rs. | 12346.65 | P%Cft | Rs. | 267966 | /- |
|---------|-----|---|-----|----------|-------|-----|--------|----|

6. Cement Plaster 1:4 upto 12" height 1/2" thick (GSI No.10(b)P/51).

| | | | | | | | | |
|----------|-----|---|-----|---------|-------|-----|--------|----|
| 15587.33 | Sft | @ | Rs. | 2283.93 | P%Sft | Rs. | 356004 | /- |
|----------|-----|---|-----|---------|-------|-----|--------|----|

7. Making & Fixing steel grated doors with 1/16" thick sheeting i/c angle iron from 2"x2" 3/8" sq bars 4" center to center with locking arrangement (GSI No.24 P/91).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 72.00 | Sft | @ | Rs. | 726.72 | P.Sft | Rs. | 52324 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

8.Reinforcement cement concrete work including all labours and made except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) (a) R.C work in roof slab, beams columns rafts lintels and other structural members laid in situ or pre cast laid in position complete in all respect (i) (Ratio 1:2:4) 90lbs cement 2 cft sand 4cft shingle 1/8" to 1/4" gauge (GSI No.6(a)(i)P/19).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 56.00 | Cft | @ | Rs. | 337.00 | P.Cft | Rs. | 18872 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

9.Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints & fastening i/c cost of binding wire (also includes removal rust from bars) (GSI: No: 7(ii) P-19)

| | | | | | | | | |
|------|-----|---|-----|---------|-------|-----|-------|----|
| 2.25 | Cwt | @ | Rs. | 5001.70 | P.Cwt | Rs. | 11254 | /- |
|------|-----|---|-----|---------|-------|-----|-------|----|

10.Painting new surface preparing surface and painting doors windows of any type i/c edge (GSI No 41 P/62).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|------|----|
| 144.00 | Sft | @ | Rs. | 2116.41 | P%Sft | Rs. | 3048 | /- |
|--------|-----|---|-----|---------|-------|-----|------|----|

11.White wash 1 coats (GSI No.26(A) P/58)

| | | | | | | | | |
|----------|-----|---|-----|--------|-------|-----|-------|----|
| 15587.33 | Sft | @ | Rs. | 416.63 | P%Sft | Rs. | 64941 | /- |
|----------|-----|---|-----|--------|-------|-----|-------|----|

12.Destempring (Three Coats) (GSI No.24(C) P/54)

| | | | | | | | | |
|----------|-----|---|-----|---------|-------|------------|----------------|-----------|
| 15587.33 | Sft | @ | Rs. | 1043.90 | P%Sft | Rs. | 162716 | /- |
| | | | | | | Rs. | 1715443 | /- |

GROUP 'E' STAFF QUARTER

1.Dismantling CC reinforced separating reinforcement from concrete cleaning and straightning the same (GSI No.20 P/10).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|-------|----|
| 186.64 | Cft | @ | Rs. | 5445.00 | P%Cft | Rs. | 10163 | /- |
|--------|-----|---|-----|---------|-------|-----|-------|----|

2.Dismantling brick work in lime or cement mortar (GSI No.13 P/10).

| | | | | | | | | |
|-----|-----|---|-----|---------|-------|-----|------|----|
| 464 | Cft | @ | Rs. | 1285.63 | P%Cft | Rs. | 5965 | /- |
|-----|-----|---|-----|---------|-------|-----|------|----|

3.Dismantling C.C Plain 1:3:6 (GSI No.19 (b) P/10).

| | | | | | | | | |
|-----|-----|---|-----|---------|-------|-----|------|----|
| 146 | Cft | @ | Rs. | 1306.80 | P%Cft | Rs. | 1908 | /- |
|-----|-----|---|-----|---------|-------|-----|------|----|

4.Excavation in foundation of building bridges and other structure i/c belling dressing refilling around structure with excavated earth watering and ramming lead up to 5 ft in ordinary soil (in as I No:18 (b)p-4)

| | | | | | | | | |
|--------|-----|---|-----|---------|--------|-----|------|----|
| 317.00 | Cft | @ | Rs. | 3176.25 | P%oCft | Rs. | 1007 | /- |
|--------|-----|---|-----|---------|--------|-----|------|----|

5. C.C brick or stone ballast 1 1/2" to 2" guage (GSI No.4(b) P/17).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|-------|----|
| 163.19 | Cft | @ | Rs. | 9416.28 | P%Cft | Rs. | 15366 | /- |
|--------|-----|---|-----|---------|-------|-----|-------|----|

6. Erection and removal of centering for RCC or plain cement concrete work of deodar wood (2nd class) vertical (GSI NO. 19(a)(ii) P/19).

381.00 Sft @ Rs. 3127.41 P%Sft Rs. 11915 /-

7. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio (1:3:6). (GSI: 5, P-16)

240.75 Cft @ Rs. 12595.00 P%Cft Rs. 30322 /-

8. Pucca brick work in ground floor i/c striking joint in cement sand mortar (1:6) (GSI No. 5(i)(e) -P20).

477 Cft @ Rs. 12674.36 P%Cft Rs. 60457 /-

9. Reinforcement cement concrete work including all labours and made except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) (a) R.C work in roof slab, beams columns rafts lintels and other structural members laid in situ or pre cast laid in position complete in all respect (i) (Ratio 1:2:4) 90lbs cement 2 cft sand 4cft shingle 1/8" to 1/4" gauge (GSI No. 6(a)(i) P/19).

187.20 Cft @ Rs. 337.00 P.Cft Rs. 63086 /-

10. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints & fastening i/c cost of binding wire (also includes removal rust from bars) (GSI: No: 7(ii) P-19)

7.52 Cwt @ Rs. 5001.70 P.Cwt Rs. 37613 /-

11. Making & Fixing steel grated doors with 1/16" thick sheeting i/c angle iron from 2"x2" 3/8" sq bars 4" center to center with locking arrangement (GSI No. 24 P/91).

22.75 Sft @ Rs. 726.72 P.Sft Rs. 16533 /-

12. Supplying and fixing in position iron steel grill of 3/4"x1/4" size flat iron of approved design i/c painting 3 coats etc complete (weight not to be less than 3.7 Lbs/sq ft finished grill) (GSI No. 26 P/93).

36.00 Sft @ Rs. 180.50 P.Sft Rs. 6498 /-

13. Cement Plaster 1:4 upto 12" height 1/2" thick (GSI No. 10(b) P/51).

1346 Sft @ Rs. 2283.93 P%Sft Rs. 30742 /-

14. Providing and laying 2" thick topping cement concrete (1:2:4) including surface finishing and dividing into panells (GSI No. 16(d) P/41).

238.00 Cft Sft @ Rs. 3275.50 P%Sft Rs. 7796 /-

15. Providing and fixing ornamental cement jali 2" thick 1:2:4 cut steel (GSI No. 1 P/17).

| | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|---|-----|---------|-------|---------------|------------|---------------|-----------|
| 30.00 | Cft | Sft | @ | Rs. | 226.02 | P.Sft | Rs. | 6781 | /- | |
| 16.Painting new surface preparing surface and painting doors windows of any type i/c edge (GSI No 41 P/62). | | | | | | | | | | |
| 45.50 | Sft | | @ | Rs. | 2116.41 | P%Sft | Rs. | 963 | /- | |
| 17.Clour wash 2 coats (GSI No.25 P/53) | | | | | | | | | | |
| 1431.12 | Sft | | @ | Rs. | 859.90 | P%Sft | Rs. | 12306 | /- | |
| 18.White wash 2 coats (GSI No.26 P/53) | | | | | | | | | | |
| 238.00 | Sft | | @ | Rs. | 829.95 | P%Sft | Rs. | 1975 | /- | |
| 19.Fabrication of heavy steel work with angles,Tee, flat iron and sheet iron for making trusses girders tanks etc i/c cutting bending handing assembling and fixing but excluding erection in position (GSI No.2 P/96). | | | | | | | | | | |
| 3.05 | Cwt | | @ | Rs. | 4928.00 | P.Cwt | Rs. | 15030 | /- | |
| 20.Erection and fitting in position of iron trusses staging of water tank etc (GSI No.2 P/96). | | | | | | | | | | |
| 3.05 | Cwt | | @ | Rs. | 271.06 | P.Cwt | Rs. | 827 | /- | |
| | | | | | | | TOTAL: | Rs. | 337253 | /- |

GROUP 'F' SUMP WELL @ WATER WORKS

1.Excavation for Tank and reservoirs in Soft Soil i/c trimming and dressing side to true alignment designe section portles and shape levelling of beds of tanks to correct level and grade i/c laying of earth in 6" layer for construction of tank and dressing and disposal of surplus excavated earth with on chain and directed by Engineer, incharge i/c providing fence guards light flag where ever required lift upto 5ft and lead upto one chain (PHSI No.1 P/69)

| | | | | | | | | | |
|--------|-----|--|---|-----|---------|--------|-----|-----|----|
| 141.69 | Cft | | @ | Rs. | 3000.00 | P%oCft | Rs. | 425 | /- |
|--------|-----|--|---|-----|---------|--------|-----|-----|----|

2.Excavation for Tank and reservoirs in Wet Soil i/c trimming and dressing side to true alignment designe section portles and shape levelling of beds of tanks to correct level and grade i/c laying of earth in 6" layer for construction of tank and dressing and disposal of surplus excavated earth with on chain and directed by Engineer, incharge i/c providing fence guards light flag where ever required lift upto 5ft and lead upto one chain (PHSI No.14 P/52)

| | | | | | | | | | |
|--------|-----|--|---|-----|---------|--------|-----|------|----|
| 212.54 | Cft | | @ | Rs. | 4800.00 | P%oCft | Rs. | 1020 | /- |
|--------|-----|--|---|-----|---------|--------|-----|------|----|

3. Excavation for Tank and reservoirs in Slushy or Daldaly Soil i/c trimming and dressing side to true alignment designe section portles and shape levelling of beds of tanks to correct level and grade i/c laying of earth in 6" layer for construction of tank and dressing and disposal of surplus excavated earth with on chain and directed by Engineer, incharge i/c providing fence guards light flag where ever required lift upto 5ft and lead upto one chain (PHSI No.15 P/74)

| | | | | | | | | |
|--------|-----|---|-----|---------|--------|-----|------|----|
| 354.23 | Cft | @ | Rs. | 7200.00 | P%oCft | Rs. | 2550 | /- |
|--------|-----|---|-----|---------|--------|-----|------|----|

4. Cement Plaster 1:4 upto 12" height 1/2" thick (GSI No.10(b)P/51).

| | | | | | | | | |
|-------|-----|---|-----|---------|--------|-----|------|----|
| 35.42 | Cft | @ | Rs. | 9416.28 | P%oCft | Rs. | 3335 | /- |
|-------|-----|---|-----|---------|--------|-----|------|----|

5. Reinforcement cement concrete work including all labours and made except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) (a) R.C work in roof slab, beams columns rafts lintels and other structural members laid in istu or pre cast laid in position complete in all respect (i) (Ratio 1:2:4) 90lbs cement 2 cft sand 4cft shingle 1/8" to 1/4" gauge (GSI No.6(a)(i)P/19).

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|-----|-------|----|
| 186.93 | Cft | @ | Rs. | 337.00 | P.Cft | Rs. | 62995 | /- |
|--------|-----|---|-----|--------|-------|-----|-------|----|

6. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints & fastening i/c cost of binding wire (also includes removal rust from bars) (GSI: No: 7(ii) P-19)

| | | | | | | | | |
|------|-----|---|-----|---------|-------|-----|-------|----|
| 7.51 | Cwt | @ | Rs. | 5001.70 | P.Cwt | Rs. | 37563 | /- |
|------|-----|---|-----|---------|-------|-----|-------|----|

| | | |
|------------|---------------|-----------|
| Rs. | 107889 | /- |
|------------|---------------|-----------|

GROUP 'G' C.C BLOCK

1. Cement Concrete brick or stone Balllast 1 1/2" to 2" guage (GSI No.4(b)P/15). 1:4:8

| | | | | | | | | |
|---------|-----|---|-----|---------|-------|-----|--------|----|
| 1716.00 | Cft | @ | Rs. | 9416.28 | P%Cft | Rs. | 161583 | /- |
|---------|-----|---|-----|---------|-------|-----|--------|----|

2. Errection and removal of centering for RCC or plain cement concrete work of deodar wood (2nd class) vertical (GSI NO.19(a)(ii) P/19).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|------|----|
| 260.00 | Sft | @ | Rs. | 3127.41 | P%Sft | Rs. | 8131 | /- |
|--------|-----|---|-----|---------|-------|-----|------|----|

3. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio (1:2:4). (GSI: 5,P-16)

| | | | | | | | | |
|---------|-----|---|-----|----------|-------|-----|--------|----|
| 1300.00 | Cft | @ | Rs. | 14429.25 | P%Cft | Rs. | 187580 | /- |
|---------|-----|---|-----|----------|-------|-----|--------|----|

| | | | |
|---------------|------------|---------------|-----------|
| TOTAL: | Rs. | 357295 | /- |
|---------------|------------|---------------|-----------|

GROUP 'H' POLYTHREN P.E RISING MAIN "6" DIA

1.Dismantling & Road metelling (GSI No.51 P-13).

| | | | | | | | | |
|---------|-----|---|-----|--------|-------|-----|-------|----|
| 4500.00 | Cft | @ | Rs. | 605.00 | P%Cft | Rs. | 27225 | /- |
|---------|-----|---|-----|--------|-------|-----|-------|----|

2.Excavation for pipe line entrenches, and pits in soft soil i/c Trimming and dressing sides to true alignment and shape leveling Of beds of trenches to correct level and grade, cutting joint holes And disposal of surplus earth within a one chain as directed by Engineer Incharge, providing fence guards lights, flange and temporary Crossing for non vehicular traffic where ever required lift upto 5 ft (1.52 m) and lead upto 1 chain. (30.5 m) (PHSI No.1 P-46)

| | | | | | | | | |
|--------|-----|---|-----|---------|--------|-----|--------|----|
| 141750 | Cft | @ | Rs. | 3600.00 | P%oCft | Rs. | 510300 | /- |
|--------|-----|---|-----|---------|--------|-----|--------|----|

3.Providing , Laying & Fixing in trenches i/c fitting jointing & testing etc complete in all respect the high Density Polythylene P.E pipes (HDPE-100) fir W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051(PHSI No.1(k) P-25).

6" DIA

| | | | | | | | | |
|----------|-----|---|-----|--------|-------|-----|---------|----|
| 18000.00 | Cft | @ | Rs. | 440.00 | P.Rft | Rs. | 7920000 | /- |
|----------|-----|---|-----|--------|-------|-----|---------|----|

4.High density polyethylen (PE-100) fitting per each (Equvelent made) (SMINO.ix P-18).

P#8(160mm)

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|-------|----|
| 7.00 | Nos | @ | Rs. | 3480.00 | Each | Rs. | 24360 | /- |
|------|-----|---|-----|---------|------|-----|-------|----|

ii.Equal Tee (Outer Dia) (SMINO.D P-20).

P#8(160mm)

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|------|----|
| 2.00 | Nos | @ | Rs. | 4175.00 | Each | Rs. | 8350 | /- |
|------|-----|---|-----|---------|------|-----|------|----|

5.Air Valve double acting (Local) (SMINO.8(b) P-12).

6"Dia

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|-------|----|
| 3.00 | Nos | @ | Rs. | 4000.00 | Each | Rs. | 12000 | /- |
|------|-----|---|-----|---------|------|-----|-------|----|

6.C.I Sluice valve heavy pattern (Test pressure 21.0 kg/sqmm or 300lb/sq inch)(Imported)(SMI No.2(b) P/11).

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|-------|----|
| 3.00 | Nos | @ | Rs. | 9360.00 | Each | Rs. | 28080 | /- |
|------|-----|---|-----|---------|------|-----|-------|----|

7. Fire Hyderent (Screwed outlets)(SMI No.10 (c) P-17)

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|------|----|
| 3.00 | Nos | @ | Rs. | 1375.00 | Each | Rs. | 4125 | /- |
|------|-----|---|-----|---------|------|-----|------|----|

8. Special Cost iron fitting for PVC pipes(SMI No.1 P-16)

i) Tail Piece 6" Dia

| | | | | | | | | |
|------|-----|---|-----|--------|------|-----|------|----|
| 6.00 | Nos | @ | Rs. | 618.75 | Each | Rs. | 3713 | /- |
|------|-----|---|-----|--------|------|-----|------|----|

9. But fusion joint (SMI No.H P-20)

110-160 mm

For Bend 90°

For Tee

| | | | | | | | | |
|-------|-----|---|-----|---------|------|-----|-------|----|
| 11.00 | Nos | @ | Rs. | 1000.00 | Each | Rs. | 11000 | /- |
|-------|-----|---|-----|---------|------|-----|-------|----|

10. Jointing C.I M.S flanged and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts bolts with washer ec complete (PHSI No.1(d) P-40).

For 6" Dia

For S/Valve

| | | | | | | | | |
|------|-------|---|-----|--------|---------|-----|------|----|
| 6.00 | Joint | @ | Rs. | 938.00 | P.Joint | Rs. | 5628 | /- |
|------|-------|---|-----|--------|---------|-----|------|----|

11. Providing chamber 3 1/2 x 2 1/2 (1064x762mm) inside dimension 7'(2.13 meter) deep as provided for sluice valve 15" to 24" dia with 29" dia (457mm) inside a cost iron covers & frame (wt:1cwt:3qr)3ft field in RCC ratio 1:2:4(102mm) thick with 5 lbs steel or per Cft 9"(299mm) thick masonry walls in 1 1/6 cement mortar 6" (1152 mm) thick CC 1:3:6 in foundation 1"(25mm) thick cement concret 1:2:4 (PHSI No.1 P-49).

For Air Valve

For S/Valve

| | | | | | | | | |
|------|-----|---|-----|----------|------|-----|--------|----|
| 6.00 | Nos | @ | Rs. | 18820.00 | Each | Rs. | 112920 | /- |
|------|-----|---|-----|----------|------|-----|--------|----|

12. Refilling the excavated earth stuff in trenches 6" layers i/c watering ramming to full completion etc complete. (PHSI No.24 P-65).

| | | | | | | | | |
|--------|-----|---|-----|---------|--------|-----|--------|----|
| 127575 | Cft | @ | Rs. | 2760.00 | P%oCft | Rs. | 352107 | /- |
|--------|-----|---|-----|---------|--------|-----|--------|----|

TOTAL: Rs. 9019808 /-

GROUP 'I' STORAGE TANK (3 NOS)

1. Cement Plaster 1:4 upto 12' height 1/2 thick (GSI No.10 (b)P/51).

| | | | | | | | | |
|----------|-----|---|-----|---------|--------|-----|--------|----|
| 12000.00 | Cft | @ | Rs. | 2283.93 | P%oCft | Rs. | 274072 | /- |
|----------|-----|---|-----|---------|--------|-----|--------|----|

Total Rs. 274072 /-

GROUP 'J' PUMPING MACHINERY

1. Supplying and installing in position i/c transportation to site of work at Pangrio A.C Electric Pumping Set consisting of A.C Electric Motor of type 20 BHP 1450 RPM 160 L 60 coupled with KSB Pump (ETA 100-315) size 5"x4" 1/2" mounted on common steel frame or base plate capable of discharging 300 gallons /minute against a head of 110 ft i/c installation of pumping set on c.c foundation ratio (1:2:4) and ratio (1:4:8) with ballast with M.S nuts and bolts of dia to be embedded in c.c foundation i/c providing and fixing on prepared board A.C cycles 3 Phase 12/25 ampere trips rating push button type size delta starter complete with no volts and over head release and required i/c providing and fixing on prepared board iron (clad) triple pole and neutral switch fuse with rewirable type fuse link carried 500 volts grade 30 ampere providing and fixing volts meter 0.500 volts and ampere meter 0.50 ampere installed on metal board i/c providing and fixing metal board to accommodate main or sub main control switch recessed in the wall size 3"x2"x1/2" i/c providing phase indicator bulbs with holder and providing internal electric wiring for mains with 12A plate size (1 1/2x2) G.I Plate carried and to ground at depth 7ft for base plate and testing of the pumping set against the required head for 72 hours etc complete (For intake works).

| | | | | | | | | |
|------|------|---|-----|-----------|-------|-----|---------|----|
| 2.00 | Sets | @ | Rs. | 529790.00 | P.Set | Rs. | 1059580 | /- |
|------|------|---|-----|-----------|-------|-----|---------|----|

2. Manufacturing and Installing M.S pipe made out of M.S sheet of 3/16" thick cutting folding proper curvature and shape i/c welding etc complete (R.A based on schedule).

FOR INTAKE WORK

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 57.00 | Rft | @ | Rs. | 749.34 | P.Rft | Rs. | 42712 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

FOR WATER WORK

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 58.00 | Rft | @ | Rs. | 506.60 | P.Rft | Rs. | 29383 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

3. Manufacturing and installing with welding M.S flanged made out of M.S sheet 4/8" thick i/c cutting drilling holes etc complete (R.A based on schedule).

For 6" dia

| | | | | | | | | |
|-------|-----|---|-----|--------|------|-----|-------|----|
| 14.00 | Nos | @ | Rs. | 804.77 | Each | Rs. | 11267 | /- |
|-------|-----|---|-----|--------|------|-----|-------|----|

For 4" dia

| | | | | | | | | |
|-------|-----|---|-----|--------|------|-----|------|----|
| 14.00 | Nos | @ | Rs. | 596.75 | Each | Rs. | 8355 | /- |
|-------|-----|---|-----|--------|------|-----|------|----|

4. C.I Sluice valve heavy pattern (Test pressure 21.0 kg/sqmm or 300lb/sq inch) (Imported) (SMI No.2(b) P/11).

For 3" dia

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|-------|----|
| 4.00 | Nos | @ | Rs. | 4290.00 | Each | Rs. | 17160 | /- |
|------|-----|---|-----|---------|------|-----|-------|----|

For 4" dia

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|-------|----|
| 2.00 | Nos | @ | Rs. | 5460.00 | Each | Rs. | 10920 | /- |
|------|-----|---|-----|---------|------|-----|-------|----|

5. Reflex valve heavy pattern (Test pressure 21 kg/sq cm or 300 lbs/sq.inch (imported) (SMI No.6(a) P/12).

For 3" dia

2.00 Nos @ Rs. 1543.75 Each Rs. 3088 /-

For 4" dia

2.00 Nos @ Rs. 1706.25 Each Rs. 3413 /-

6. Foot valve heavy pattern with cone type gate (Imported) (SMI No.4(a) P/12).

For 6" dia

2.00 Nos @ Rs. 1381.25 Each Rs. 2763 /-

For 4" dia

2.00 Nos @ Rs. 893.75 Each Rs. 1788 /-

7. C.I Tappers flat bottomed or central tapped flanged end with holes i/c turning and facing of flanged for all sizes (SMI No.9 P/12).

0.98 Cwt @ Rs. 6096.00 P.Cwt Rs. 5974 /-

8. C.I bend with flanged and with holes i/c turning and facing of flanges for all size (SMI No.8P-11).

2.30 Cwt @ Rs. 6096.00 P.Cwt Rs. 14021 /-

9. C.I Tees with flanged ends with holes i/c turning and facing of flanges for all size (SMI No.12P-12).

0.64 Cwt @ Rs. 6096.00 P.Cwt Rs. 3901 /-

10. Jointing C.I/M.S flanged pipe and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts ,bolts with washers etc and other tools required for jointing and testing the joint in the special pressure etc complete (PHSI No.1P/40).

a) For 6" Dia

16.00 Joint @ Rs. 938.00 P.Joint Rs. 15008 /-

b) For 4" Dia

24.00 Joint @ Rs. 513.00 P.Joint Rs. 12312 /-

b) For 3" Dia

8.00 Joint @ Rs. 499.00 P.Joint Rs. 3992 /-

11. Providing and laying (main or sub main) PVC insulated with sine 4-3/036 copper conductor in 1" Dia PVC conduit column as required (ESI No.37 P/5).

60.98 M @ Rs. 290.00 P.Meter Rs. 17684 /-

TOTAL: Rs. 1263319 /-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|-------------------------------------|----------------|----------------|------------|
| 1 | Distribution System | 1045914/- | -- | 1045914/- |
| 2 | Constt: of Pump House @ Intake work | 234472/- | -- | 234472/- |
| 3 | Constt: of Pump House @ Water work | 225930/- | -- | 225930/- |
| 4 | Construction of Compound Wall | 1715443/- | -- | 1715443/- |
| 5 | Construction of Staff Quarter | 337253/- | -- | 337253/- |
| 6 | Sump Well @ Water Works | 107889/- | -- | 107889/- |
| 7 | C.C. Block | 357295/- | -- | 357295/- |
| 8 | P.E.Pipe Rising main 6"dia | 9019808/- | -- | 9019808/- |
| 9 | Repair of Storage Tank | 274072/- | -- | 274072/- |
| 6 | Pumping Machinery | 230739/- | 1059580/- | 1290319/- |
| | Total | 13548815/- | 1059580/- | 14608395/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-


Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


 PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- REHABILITATION OF RURAL WATER SUPPLY SCHEME
BHAWAL ZOUR TALUKA HYDERABAD (RURAL) DISTRICT
HYDERABAD

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-

STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | Rehabilitation Of Rural water Supply Scheme Bhawal Zour Taluka Hyderabad (Rural) District Hyderabad |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 8.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 at 1.:00 PM |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: **REHABILITATION OF RURAL WATER SUPPLY**
SCHEME BHAWAL ZOUR TALUKA HYDERABAD
(RURAL) DISTRICT HYDERABAD

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'A' P/L/JOINTING & TESTING PVC DISTT: SYSTEM

- | | | | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--|--------------|
| 1. | Dismantling & Removing road metalling. (GSINO.51 P-13) For 4" dia 3750.0 Cft | @Rs: 605/- | P%Cft | | Rs: 22687/- |
| 2. | Dismantling c.c. plain 1:2:4 (GSINO.19(i)P-10) 3366.0 Cft | @Rs: 3327/50 | P%Cft | | Rs: 112003/- |
| 3. | Dismantling cement with brick aggregate. (GSINO.19(d)P-10) 5100.0 Cft | @Rs: 907/50 | P%Cft | | Rs: 46282/- |
| 4. | Excavation for pipe lines into trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer in charge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5'ft(1.52m) and lead upto one chain (30.5mm)(P.H.S.I.NO. 1 P/60) 36384.0 Cft | @Rs: 3600/- | P%ocft | | Rs: 130982/- |
| 5. | Carriage of 100cft/5 tons of all materials like stone aggregate, spawl, coal, lime, Surkhi etc: B.G Rail fastenings points and crossing bridges, Girders, pipe, Sheets Rails M.S Bars etc. or 1000 Nos 10"x5"x3" or 1000 Nos tiles 12"x6"x2" or 150 cft Of timber or 100 mounds of fuel wood by trucks or any other means owned by the Contractor.(SSINO.1 P/1)(Lead 1 miles) 12216.00 Cft | @Rs: 407/- | P%ocft | | Rs: 49719/- |
| 6. | Refilling the excavated stuff in trenches 6" thick layers i/c watering ramming to full compaction etc: complete.(PHSINO.24 P-77) 32745.0 Cft | @Rs: 2760/- | P%oCft | | Rs: 90377/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|--|--------------|
| 7. | Providing Laying uPVC Pressure pipe of class 'B' (equivalent) make fixing in trenches i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 61 meter or 200 ft. (PHSINO.1(a.b.c.d)P22) | | | | |
| | 4"dia 3200.0 Rft | @Rs: 137/- | P.Rft | | Rs: 438400/- |
| | 3"dia 4900.0 Rft | @Rs: 90/- | P.Rft | | Rs: 441000/- |
| 8. | Cost iron Special for PVC pipe. (SMINO. 1 P-28) | | | | |
| i. | C.I. Bend 90o | | | | |
| | 4"dia 3 Nos | @Rs: 893/75 | Each | | Rs: 2681/- |
| | 3"dia 13 Nos | @Rs: 650/- | Each | | Rs: 8450/- |
| 9. | C.I. Tee (Equal) | | | | |
| | 4"dia 15 Nos | @Rs: 1375/- | Each | | Rs: 20625/- |
| | 3"dia 5 Nos | @Rs: 968/75 | Each | | Rs: 4844/- |
| 10. | C.I. Reducer. | | | | |
| | 4"x 3" 1 No | @Rs: 568/75 | Each | | Rs: 569/- |
| 11. | C.I. End Plug. | | | | |
| | 4"dia 1 No | @Rs: 425/- | Each | | Rs: 425/- |
| | 3"dia 16 Nos | @Rs: 368/75 | Each | | Rs: 5900/- |
| 12. | C.I. Sluice valve heavy pattern (Test Pressure)21.0kg/sq/cm or 300 lb/sq.inch)(imported)(SMINO. 2.(b) P-11) | | | | |
| | 4"dia 1 No | @Rs: 5460/- | Each | | Rs: 5460/- |
| 13. | PVC Socket. (SMINO.III P-27) | | | | |
| | 4"dia 36 Nos | @Rs: 1125/- | Each | | Rs: 40500/- |
| | 3"dia 39 Nos | @Rs: 405/- | Each | | Rs: 15795/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
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| 14. | Rubber Ring Extra. (SMINO. 7 P-5) 4"dia 72 Nos @Rs: 95/- | P.Pair | | | Rs: 6840/- |
| | 3"dia 78 Nos @Rs: 58/- | P.Pair | | | Rs: 4524/- |
| 15. | Fixing of sluice valves with 2-cast iron tail pieces, one end flanged and other socket i/c the cost of nuts bolts and rubber packing labour etc: complete. (PHSINO11(c)P-12) 4"dia 1.0 Nos @Rs: 1532/- | Each | | | Rs: 1532/- |
| 16. | Providing chamber 21/2x2 1/2 (750x750' mm) inside dia mansion 4 1/2' (1372mm) Deep as per approved design for sluice valve 3"to 12"dia with 18"(457mm)dia inside cost iron cover and frame (wt=1 Cwt 3 qr)fixed in RCC 1:2:4 (102 mm)thick (with 5 lbs steel per cft)9"(299mm)thick brick masonry walls set in 1:6 cement mortar 6"(1152mm)thick c.c 1:3:6 in foundation 1(25mm)thick c.c 1:2:4 flooring 1/2" (12.5mm)thick cement plaster 1:3 to all inside wall surface and top i/c providing and fixing M.S foot beyond 2 1/2"ft depth curing excavation back filling and disposal of surplus earth etc :complete(PHSINO.1P/49) 2.0 Nos @Rs: 18820/- | Each | | | Rs: 37640/- |
| | | | | | Total Rs: 1487235/- |

GROUP 'B' PUMP HOUSE @ WATER WORK

| | | | | | |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|------------|
| 1. | Dismantling c.c. reinforced separating reinforcement from concrete cleaning and straightening the same. (GSINO.20 P-10) 95.81 Cft @Rs: 5445/- | P%oCft | | | Rs: 5217/- |
| 2. | Dismantling brick work in lime or cement mortar. (GSINO.13 P-10) 299.0 Cft @Rs: 1285/63 | P%Cft | | | Rs: 3844/- |
| 3. | Dismantling c.c. Plain 1:3:6. (GSINO. 19(b)P-10) 165.0 Cft @Rs: 1306/80 | P%Cft | | | Rs: 2156/- |
| 4. | Excavation in foundation in building bridges and other structure i/c day belling dressing refilling around structure with excavated earth watering and ramming lead up to one chain (In ordinary soil)(GSINO.18(b)P/4) 294.00Cft @Rs: 3176/25 | P%ocft | | | Rs: 934/- |
| 5. a) | Cement Concrete brick or stone ballast 1 1/2 to 2 gauge (GSINO.4)P/14 Ration 1:4:8 59.00Cft @Rs: 9416/28 | P%cft | | | Rs: 5556/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|--------|-------------|
| b) | Ration 1:5:10 Under floor of Pump House | | | | |
| | | 57.00Cft | @Rs: 8694/95 | P%cft | Rs: 4956/- |
| 6. | Cement Concrete plain including placing compacting finishing and curing complete (including screening and washing at stone aggregate without (GSINO.5(h))P/15)(1:3:6) | | | | |
| | | 165.00 Cft | @Rs: 12595/- | P%cft | Rs: 20782/- |
| 7. | Erection and removal of centering for RCC or plain cement concrete works of partial wood (2 nd class)Vertical (GSINO.19(a)(ii)P/17) | | | | |
| | | 329.0 Sft | @Rs: 3127/41 | P%Sft | Rs: 10289/- |
| 8. | Pucca Brick work in ground floor i/c striking joint in cement sand mortar (1:6) (G.S.I.NO;5(i)(e)P/20) | | | | |
| | | 299.00 Cft | @Rs: 12674/36 | P.%Cft | Rs: 37896/- |
| 9. | Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" guage.(G.S.I.NO;6(a)P/17) | | | | |
| | | 100.0 Cft | @Rs: 337/- | P.Cft | Rs: 33700/- |
| 10. | Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars(G.S.I.NO.8(bP/16) | | | | |
| | | 4.01 Cwt | @Rs: 5001/70 | P.Cwt | Rs: 20057/- |
| 11. | Filling watering and ramming earth under floor with new earth excavated from out side lead up to one chain & lift up to 5 ft(GSINO.22 P-4) | | | | |
| | | 115.0 Cft | @Rs: 3630/- | P%oCft | Rs: 417/- |
| 12. | Providing and laying 2" thick topping cement concrete (1:2:4)including surface finishing and dividing into panels (G.S.I.NO;16(d)P/41) | | | | |
| | | 120.0 Sft | @Rs: 3275/50 | P%Sft | Rs: 3931/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|------|---------------------|
| 13. | Cement Plaster 1:4 upto 12"height ½ thick (G.S.I.NO.10(b)P/51) | | | | |
| | 940.0 Sft @Rs: 2283/93 | P%Sft | | | Rs: 21469/- |
| 14. | White wash 1 Coat (G.S.I.NO.26(a)P/53) | | | | |
| | 909.0 Sft @Rs: 416/63 | P%Sft | | | Rs: 3787/- |
| 15. | White wash Three Coat.(G.S.I.NO.26(c)P/54) | | | | |
| | 2040.0 Sft @Rs: 829/95 | P%Sft | | | Rs: 1693/- |
| 16. | Colour wash 2 Coat.(G.S.I.NO.25(b)P/54) | | | | |
| | 909.0 Sft @Rs: 859/90 | P%Sft | | | Rs: 7816/- |
| 17. | Making and fixing steel grated doors 1/16"thick sheeting i/c angle iron frame 2"x2" 3/8 and ¾ sq bars 4" centre to centre with locking arrangement. (G.S.I.NO.24 P/91) | | | | |
| | 22.75 Sft @Rs: 726/72 | P%Sft | | | Rs: 16533/- |
| 18. | Fabrication of heavy steel work with angles, tee, flat iron, and sheet iron for making trusses girders, tanks etc: i/c cutting riveting handling assembling and fixing but excluding erection in position. (GSINO.2 P-96) | | | | |
| | 2.54 Cwt @Rs: 4928/49 | P.Cwt | | | Rs: 12518/- |
| 19. | Erection and fitting in position of iron trusses staging of water tank etc. (GSINO.2 P-96) | | | | |
| | 2.54 Cwt @Rs: 271/06 | P.Cwt | | | Rs: 688/- |
| 20. | Painting new surface preparing surface and painting of door land window any type i/c edges to subsequent cost over primary i/c cost three costs. (GSINO.4 P-68) | | | | |
| | Door | | | | |
| | 45.0 Sft @Rs: 2116/41 | P%Sft | | | Rs: 9524/- |
| 21. | Supplying and fixing in position iron/steel gril of ¾ x ¼ " size flat iron of approved design including painting 3 coats etc complete (weight not to be less than 3/7 lbs/sq foot of finished grill) (G.S.I.NO.26 P/92) | | | | |
| | 30.0 Sft @Rs: 180/50 | P%Sft | | | Rs: 5415/- |
| | | | TOTAL | | Rs: 220636/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'C' COMPOUND WALL

- | | | | | | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|--------|--------------|
| 1. | Excavation in foundation in building bridges and other structure i/c day belling dressing refilling around structure with excavated earth watering and ramming lead up to one chain (In ordinary soil)(GSINO.18(b)P/4) | 3591.0 Cft | @Rs: 3176/25 | P%oCft | Rs: 11406/- |
| 2. | C.C. brick or stone ballast 1 ½” to 2” gauge.(GSINO.4(b)P-15)(1:4:8) | 898.0 Cft | @Rs: 9416/28 | P%oCft | Rs: 84534/- |
| 3. | Erection & removal of centering for RCC or plain c.c. work of portal wood (vertical)(GSINO.19 (B-2) P-19) | 7110.0 Sft | @Rs: 3127/41 | P%Sft | Rs: 222538/- |
| 4. | Cement concrete plain including placing compacting finishing and curing, complete (i/c screening and washing of stone aggregate without shuttering (GSI No5 P/16) R:1:3:6 | 3555.0 Cft | @Rs: 12595/- | P%oCft | Rs: 447752/- |
| 5. | Pucca brick work in other than building in cement sand mortar (1:6)(GSINO.7(d)P-22) | 1959.0 Cft | @Rs: 12346/65 | P%oCft | Rs: 241870/- |
| 6. | Cement plaster 1:4 up to 12’ height ½” thick R(1:4)(GSINO.11(b) P-51) | 14085.0 Sft | @Rs: 2283/93 | P%Sft | Rs: 321691/- |
| 7. | Making and fixing steel grated door with 1/16”thick sheeting i/c angle iron frame 2x2x3/8”and ¾” sq: bas 4”center to center with locking arrangement (GSINO.24P/97) | 72.0 Sft | @Rs: 726/72 | P.Sft | Rs: 52324/- |
| 8. | Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)\(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8” to ¼” gauge.(G.S.I.NO;6(a)P/16) | 56.0 Cft | @Rs: 337/- | P.Cft | Rs: 18872/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

9. Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars)(G.S.I.NO.8(bP/16)

2.25 Cwt @Rs: 5001/70 P.Cwt Rs: 11254/-

10. Painting new surface preparing surface painting doors and window of any type i/c Edge(GSINO.5(C)P/68)

144.0 Sft @Rs: 2116/41 P%Sft Rs: 3048/-

10. White Wash One Coats (GSINO.26(A)P/53)

14085.0 Sft @Rs: 416/63 P%Sft Rs: 58682/-

11. Distempering (Three Coat)(GSINO.24 (C) P-54)

14085.0 Sft @Rs: 1043/90 P%Sft Rs: 147033/-

TOTAL Rs: 1620814/-

GROUP 'D' STAFF QUARTER

1. Dismantling c.c. reinforced separating reinforcement from concrete cleaning and straightening the same. (GSINO.20 P-10)

187.00 Cft @Rs: 5445/- P%Cft Rs: 10182/-

2. Dismantling brick work in lime or cement mortar. (GSINO.13 P-10)

464.0 Cft @Rs: 1285/63 P%Cft Rs: 5965/-

3. Dismantling c.c. Plain 1:3:6. (GSINO. 19(b)P-10)

146.0 Cft @Rs: 1306/80 P%Cft Rs: 1908/-

4. Excavation in foundation in building bridges and other structure i/c day belling dressing refilling around structure with excavated earth watering and ramming lead up to one chain (In ordinary soil)(GSINO.18(b)P/4)

317.00 Cft @Rs: 3176/25 P%ocft Rs: 1007/-

5. Cement Concrete brick or stone ballast 1 ½ to 2 gauge (GSINO.4)P/14)1:4:8

163.00 Cft @Rs: 9416/28 P%ocft Rs: 15349/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|--------|-------------|
| 6. | Erection and removal of centering for RCC or plain cement concrete works of partial wood (2 nd class)vertical (GSINO.19(a-II))P/19) | 381.0 Sft | @Rs: 3127/41 | P%Sft | Rs: 11915/- |
| 7. | Cement Concrete plain including placing compacting finishing and curing complete (including screening and washing at stone aggregate without (GSINO.5(h))P/16) 1:3:6 | 241.0 Cft | @Rs: 12595/- | P%cft | Rs: 30354/- |
| 8. | Pacca Brick work in ground floor i/c striking of joint cement sand mortar(1:6) (G.S.I.NO.5 (e)P/20) | 474.00 Cft | @Rs: 12674/36 | P.%Cft | Rs: 60076/- |
| 9. | Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)\(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" guage.(G.S.I.NO.6(a)P/16) For Lintel | 187.0 Cft | @Rs: 337/- | P.Cft | Rs: 63019/- |
| 10. | Fabrication of mild steel reinforcement for cement concrete i/c cutting bending. laying in position making joints and fastenings i/c cost of binding wire (also includes removal of rust from bars.)(GSI No.8 (b) P/16) | 7.51 cwt | @ Rs: 5001/70 | P.cwt | Rs: 37563/- |
| 11. | Making and fixing steel grated doors with 1/16" hick sheeting i/c angle iron from 2"x2" 3/8 and 3/4 sq bars 4" centre to centre with locking arrangement (G.S.I.NO.24 P/91) | 22.75 Sft | @Rs: 726/72 | P.Sft | Rs: 16533/- |
| 12. | S/Fixing in position iron steel grill of 3/4"x1/4" size flat iron of approved design i/c painting 3 coats etc: complete(weight not less than 3.7 lbs/sq.foot of finished grill.(GSINO.26 P-92) | 36.0 Sft | @Rs: 180/50 | P.Sft | Rs: 6498/- |
| 13. | Cement Plaster 1:4 upto 12"high 1/2 thick (G.S.I.NO;11(b)P/51) | 1346.0 Sft | @Rs: 2283/93 | P%Sft | Rs: 30742/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|--------------|---------------------|
| 14. | Providing and Laying 2" thick topping c.c.1:2:4 i/c surface finishing and dividing into panels.(GSINO.16(d)P-41) | 238.0 Sft | @Rs: 3275/50 | P%Sft | Rs: 7796/- |
| 15. | Providing and fixing ornamental cement jail 2" thick 1:2:4 out steel. (GSINO. 1 P-17) | 30.0 Sft | @Rs: 226/02 | P.Sft | Rs: 6781/- |
| 16. | Painting new surface preparing surface and painting doors and window of any type i/c edge. (G.S.I.NO.5(c) P/70) | 45.50 Sft | @Rs: 2116/40 | P%Sft | Rs: 963/- |
| 17. | Colour wash 2 Coat.(G.S.I.NO.25 P/53) | 1431.0 Sft | @Rs: 859/90 | P%Sft | Rs: 12305/- |
| 18. | White wash 2 Coat (G.S.I.NO.26 P/53) | 238.0 Sft | @Rs: 829/95 | P%Sft | Rs: 1975/- |
| 19. | Fabrication of heavy steel work with angles, tee, flat iron, and sheet iron for making trusses girders, tanks etc: i/c cutting riveting handling assembling and fixing but excluding erection in position. (GSINO.2 P-96) | 3.05 Cwt | @Rs: 4928/49 | P.Cwt | Rs: 15032/- |
| 20. | Erection and fitting in position of iron trusses staging of water tank etc. (GSINO.2 P-96) | 3.05 Cwt | @Rs: 271/06 | P.Cwt | Rs: 827/- |
| | | | | Total | Rs: 336790/- |
| | <u>GROUP 'E' C.C. BLOCK</u> | | | | |
| 1. | C.C. Brick or stone ballast 1 1/2" to 2" guage. (GSINO.4(b)P15)(1:4:8) | 3289.0 Cft | @Rs: 9416/28 | P%Cft | Rs: 309743/- |
| 2. | Erection and removal of centering for RCC or plain c.c. work of deodar wood (2 nd class)(vertical)(GSINO. 18(b)P-20) | 1350.0 Sft | @Rs: 3127/41 | P%Sft | Rs: 43570/- |
| 2. | C.C. Plain i/c placing compacting finishing and curing complete (i/c screening and washing of stone aggregate)(without shuttering)(GSINO.5 P-16)1:2:4 | 2492.0 Cft | @Rs: 14429/25 | P%Cft | Rs: 359577/- |
| | | | | Total | Rs: 712890/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
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GROUP 'F' APPROACH ROAD AND REPAIR OF STORAGE TANK

| | | | | | |
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| 1. | Earth work excavation in aches, sand, soft soil or silt clearance undressed lead up to 50 ft: (a) ordinary soil(GsINO.1 P-1) | 33000.0 Cft | @Rs: 1663/75 | P%oCft | Rs: 54903/- |
| 7. | Earth for wet earth work. (GSINO.15 P-3) | 33000.0 Cft | @Rs: 1058/75 | P%oCft | Rs: 34938/- |
| 3. | Carriage of 100cft/5 tons of all materials like stone aggregate, spawl, coal, lime, Surkhi etc: B.G Rail fastenings points and crossing bridges, Girders, pipe, Sheets Rails M.S Bars etc. or 1000 Nos 10"x5"x3" or 1000 Nos tiles 12"x6"x2" or 150 cft Of timber or 100 mounds of fuel wood by trucks or any other means owned by the Contractor.(SSINO.1 P/1)(Lead 1 miles) | 33000.0 Cft | @Rs: 407/- | P%Cft | Rs: 134310/- |
| 4. | Filling watering and ramming earth under floor (GSINO. 22 P-4) | 12100.0 Cft | @Rs: 3630/- | P%Cft | Rs: 43928/- |
| 5. | C.C. brick or stone ballast ½" 2" guage 1:4:8.(GsINO.4 (b)P-17) | 5203.60 Cft | @Rs: 9416/28 | P%Cft | Rs: 489985/- |
| 6. | Cement concrete plain including placing compacting finishing and curing, complete (i/c screening and washing of stone aggregate without shuttering (GSI No5 P/18) R:1:2:4. | 7466.0 Cft | @Rs: 14429/75 | P%Cft | Rs: 1077287/- |
| 7. | Erection and removal of centering for R.C.C. or plain cement concrete works of deodar wood (2 nd Class)(G.S.I.No:19 v(ii) P/18) | 2400.0 Sft | @Rs: 3127/41 | P%Sft | Rs: 75057/- |

Total Rs: 1910403/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
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GROUP 'G' PUMPING MACHINERY

1. Supplying and installing in position i/c transportation to site of work at pangrio A.C electric pumping set consisting of A.C electric motor of type 20 BHP 1450 RPM 160L 60 coupled with KSB pump (ETA 100-315) size 5"x4 1/2" mounted on common steel frame or base plate capable of discharging 300 gallon minute against a head of 110 ft i/c installation of pumping set on c.c foundation ratio (1:2:4) and Ratio (1:4:8) with ballast with M.S nuts and bolts of 5/8" dia to be embedded in c.c foundation i/c providing and fixing on prepared board A.C cycles 3 phase 12/25 ampere trips rating push button type star delta starter complete with no volts and over lead release and required i/c providing and fixing on prepared board iron (clad) triple pole and neutral switch fuse with rewire able type fuse link carried 500 volts grade 30 ampere providing and fixing volts meter 0.500 volts and ampere meter 0.50 ampere installed on metaled board i/c providing and fixing metalled board to accommodated main or sub mains control switch's recessed in the wall size 3"x2"1/2" i/c providing phase indication bulbs with holder and providing internal electric electric wiring for mains with 12A plate size (1 1/2 x2) G.I plate curried and to ground at depth 7ft for base plate and testing of the pumping set against the required head for 72 hours etc complete.
(For Intake Works)3

Motor 20 BHP 1450 RPM

1.0 Set @Rs: 529790/- P.Set Rs: 529790/-

2. Manufacturing and installing M.S pipe made out of M.S lead 3/16" thick bending folding to correct curvature and shape i/c melding complete (R.A Approved Based on schedule)

FOR INTAKE WORK

57.0 Rft @Rs: 749/34 P.Rft Rs: 42712/-

FOR WATER WORK

58.0 Rft @Rs: 506/60 P.Rft Rs: 29383/-

4. Manufacturing and installing with welding M.S flanged made out of M.S sheet 4/8" thick i/c cutting drilling holes etc complete (R.A. Base of Schedule)

For 4" Dia

14.0 Nos @Rs: 596/75 Each Rs: 8355/-

5. C.I. Sluice valve heavy pattern (Test pressure) 21.0 kg/sq.com or 300lb/sq.inch)(imported)(SMINO..2(b)P-12)

3" dia

2 No @Rs: 4290/- Each Rs: 8580/-

4" dia

2 No @Rs: 5460/- Each Rs: 10920/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|--------------|---------------------|
| 6. | Reflex valve heavy pattern (Test pressure 21 kg/sq.cm or 300 lbs/sq.inch)(imported)(SMINO.6(a)P-12) | | | | |
| | 3"dia | | | | |
| | 2 No | @Rs: 1543/75 | Each | | Rs: 3088/- |
| | 4"dia | | | | |
| | 2 No | @Rs: 1706/25 | Each | | Rs: 3413/- |
| 7. | Foot valve heavy pattern with cone type gate.(imported)(SMINO. 4(a)P-12) | | | | |
| | 4"dia | | | | |
| | 2 No | @Rs: 893/75 | Each | | Rs: 1788/- |
| 8. | C.I tappers flat bottomed or central tapered flanged end with holes i/c turning and facing of flanged for all sizes (SMI NO 9 P/12) | | | | |
| | 0.97 Cwt | @Rs: 6096/- | P.Cwt | | Rs: 5913/- |
| 9. | C.I.Bend with flanged end with holes i/c tunning and facing of flanges for all sizes. (SMINO. 8 P-12) | | | | |
| | 1.20 Cwt | @Rs: 6096/- | P.Cwt | | Rs: 7315/- |
| 10. | C.I. Tee flanged end with holes including turning and facing of flanged for all size. (SMINO.12 P-12) | | | | |
| | 0.22 Cwt | @Rs: 6096/- | P.Cwt | | Rs: 1371/- |
| 11. | Jointing C.I/M.S. flanged pipes and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts, bolts with washers etc: and other tools required for jointing and testing the joints to the specified pressure etc: complete.(PHSINO. N-1 P-40) | | | | |
| | <u>b) FOR 4"dia</u> | | | | |
| | 24.0 Joint | @Rs: 513/- | P.Joint | | Rs: 12312/- |
| | <u>c) FOR 3"dia</u> | | | | |
| | 8.0 Joint | @Rs: 499/- | P.Joint | | Rs: 3992/- |
| 12. | Providing and laying (main or sub main) PVC insulated with sine 4-3/036 copper conductor in 1" dia PVC conduit column as required.(ESI NO.37 P/5) | | | | |
| | 61.0 Meter | @Rs: 290/- | P.Meter | | Rs: 17690/- |
| | | | | Total | Rs: 643911/- |
| 13. | Repair of Transformer 25 k.v. | | | | |
| | 1 Job | @Rs: 66800/- | P.Job | | Rs: 66800/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

14. Providing & Laying (Main or sub-main)PVC conducting size 7/0.64 PVC conduit on common.(ESINO. P-)

72.50 #Rs: 1213/- P.Meter Rs: 87942/-
Grand Total Rs: 802892/-

GROUP 'H' FEEDING CHANNEL

1. Earth work excavation undressed lead up to a single throw of Kassi Phawrah or shovel (b) (in ordinary soil)
1125.0 Cft @Rs: 1361/25 P%Cft Rs: 1531/-
2. Cement Concrete brick or stone ballast ½" to 2" guage (R: 1:4:8)(GSINO.9 P-16)
300.00 Cft @Rs: 9416/28 P%Cft Rs: 28249/-
3. Erection and removal of centering for R.C.C. or plain cement concrete works of deodar wood (2nd Class)(G.S.I.No:19 v(ii) P/18)
1800.0 Sft @Rs: 3127/41 P%Sft Rs: 56293/-
4. Cement concrete plain including placing compacting finishing and curing, complete (i/c screening and washing of stone aggregate without shuttering (GSI No5 P/18) R:1:3:6.
787.50 Cft @Rs: 12595/- P%Cft Rs: 99185/-
5. Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)\(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" guage.(G.S.I.NO.6(a)P/16)
33.75 Cft @Rs: 337/- P.Cft Rs: 11373/-
6. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending, laying in position making joints and fastenings i/c cost of binding wire (also includes removal of rust from bars.)(GSI No.8 (b) P/16)
1.05 cwt @Rs: 5001/70 P.cwt Rs: 5051/-
7. Providing Laying ASTM RCC Pipe of ASTM C-76-62 T/C-76-70 of class II wall B and fixing in trenches i/c cutting fitting and jointing with rubber ring i/c testing with water to specified pressure.(PHSINO.B-1 P-17)
24.0 Rft @Rs: 618/- P.Rft Rs: 14832/-

Total Rs: 216714/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|--------------------------|----------------|----------------|-----------|
| 1 | Distribution System | 1487235/- | -- | 1487235/- |
| 2 | Pump House @ Water Works | 220636/- | -- | 220636/- |
| 3 | Compound Wall | 1620814/- | -- | 1620814/- |
| 4 | Staff Quarter | 336790/- | -- | 336790/- |
| 5 | C.C. Block | 712890/- | -- | 712890/- |
| 6 | Storage Tank (02 Nos) | 1910403/- | -- | 1910403/- |
| 7 | Pumping Machinery | 202064/- | 596590/- | 798654/- |
| 8 | Feeding Channel | 216714/- | -- | 216714/- |
| | Total | 7607546/- | 596590/- | 7304136/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS



PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- **REHABILITATION OF WATER SUPPLY SCHEME OF VILLAGE MITHO KHAN HAJANO TALUKA HYDERABAD (R)DISTRICT HYDERABAD**

Issued to M/s _____ Government Contractor
D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-

STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF WATER SUPPLY SCHEME OF VILLAGE MITHO KHAN HAJANO TALUKA HYDERABAD (R) DISTRICT HYDERABAD |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 5.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1.:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost) Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: REHABILITATION OF WATER SUPPLY SCHEME
OF VILLAGE MITHO KHAN HAJANO TALUKA
HYDERABAD (R)DISTRICT HYDERABAD

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'A' P/L/JOINTING & TESTING PVC DISTT: SYSTEM

- | | | | | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--|--------------|
| 1. | Dismantling & Removing road metalling. (GSINO.51 P-13) For 4" dia 3750.0 Cft | @Rs: 605/- | P%Cft | | Rs: 22688/- |
| 2. | Dismantling c.c. plain 1:2:4 (GSINO.19(i)P-10) 3366.0 Cft | @Rs: 3327/50 | P%Cft | | Rs: 112004/- |
| 3. | Dismantling cement with brick aggregate. (GSINO.19(d)P-10) 5100.0 Cft | @Rs: 907/50 | P%Cft | | Rs: 46288/- |
| 4. | Excavation for pipe lines into trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer in charge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5'ft(1.52m) and lead upto one chain (30.5mm)(P.H.S.I.NO. 1 P/60) 38486.50 Cft | @Rs: 3600/- | P%ocft | | Rs: 138552/- |
| 5. | Carriage of 100cft/5 tons of all materials like stone aggregate, spawl, coal, lime, Surkhi etc: B.G Rail fastenings points and crossing bridges, Girders, pipe, Sheets Rails M.S Bars etc. or 1000 Nos 10"x5"x3" or 1000 Nos tiles 12"x6"x2"or 150 cft Of timber or 100 mounds of fuel wood by trucks or any other means owned by the Contractor.(SSINO.1 P/1)(Lead 1 miles) 12216.00 Cft | @Rs: 407/- | P%cft | | Rs: 49719/- |
| 6. | Refilling the excavated stuff in trenches 6" thick layers i/c watering ramming to full compaction etc: complete.(PHSINO.24 P-77) 34637.0 Cft | @Rs: 2760/- | P%oCft | | Rs: 95600/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|------|--------------|
| 7. | Providing Laying uPVC Pressure pipe of class 'B' (equivalent) make fixing in trenches i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 61 meter or 200 ft. (PHSINO.1(a.b.c.d)P22) | | | | |
| | 4" dia 3200.0 Rft | @Rs: 137/- | P.Rft | | Rs: 438400/- |
| | 3" dia 4900.0 Rft | @Rs: 90/- | P.Rft | | Rs: 441000/- |
| 8. | Cost iron Special for PVC pipe. (SMINO. 1 P-28) | | | | |
| i. | C.I. Bend 90o 4" dia 3 Nos | @Rs: 893/75 | Each | | Rs: 2681/- |
| | 3" dia 13 Nos | @Rs: 650/- | Each | | Rs: 8450/- |
| 9. | C.I. Tee (Equal) 4" dia 15 Nos | @Rs: 1375/- | Each | | Rs: 20625/- |
| | 3" dia 5 Nos | @Rs: 968/75 | Each | | Rs: 4844/- |
| 10. | C.I. Reducer. 4"x 3" 1 No | @Rs: 568/75 | Each | | Rs: 569/- |
| 11. | C.I. End Plug. 4" dia 1 No | @Rs: 425/- | Each | | Rs: 425/- |
| | 3" dia 16 Nos | @Rs: 368/75 | Each | | Rs: 5900/- |
| 12. | C.I. Sluice valve heavy pattern (Test Pressure)21.0kg/sq/cm or 300 lb/sq.inch)(imported)(SMINO. 2.(b) P-11) 4" dia 6 Nos | @Rs: 5460/- | Each | | Rs: 32760/- |
| 13. | PVC Socket. (SMINO.III P-27) 4" dia 36 Nos | @Rs: 1125/- | Each | | Rs: 40500/- |
| | 3" dia 39 Nos | @Rs: 405/- | Each | | Rs: 15795/- |
| 14. | Rubber Ring Extra. (SMINO. 7 P-5) 4" dia 72 Nos | @Rs: 95/- | P.Pair | | Rs: 6840/- |
| | 3" dia 78 Nos | @Rs: 58/- | P.Pair | | Rs: 4524/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

15. Fixing of sluice valves with 2-cast iron tail pieces, one end flanged and other socket i/c the cost of nuts bolts and rubber packing labour etc: complete. (PHSINO11(c)P-12)

6"dia
4.0 Nos @Rs: 1886/- Each Rs: 7544/-

4"dia
6.0 Nos @Rs: 1532/- Each Rs: 9192/-

16. Providing chamber 21/2x2 1/2 (750x750' mm) inside dia mansion 4 1/2'(1372mm) Deep as per approved design for sluice valve 3"to 12"dia with 18"(457mm)dia inside cost iron cover and frame (wt=1 Cwt 3 qr)fixed in RCC 1:2:4 (102 mm)thick (with 5 lbs steel per cft)9"(299mm)thick brick masonry walls set in 1:6 cement mortar 6"(1152mm)thick c.c 1:3:6 in foundation 1(25mm)thick c.c 1:2:4 flooring 1/2" (12.5mm)thick cement plaster 1:3 to all inside wall surface and top i/c providing and fixing M.S foot beyond 2 1/2"ft depth curing excavation back filling and disposal of surplus earth etc :complete(PHSINO.1P/49)

10.0 Nos @Rs: 18820/- Each Rs: 188200/-

Total Rs: 1814236/-

GROUP 'B' PUMP HOUSE @ INTAKE WORK

1. Dismantling c.c. reinforced separating reinforcement from concrete cleaning and straightening the same.(GSINO.20 P-10)

120.0 Cft @Rs: 5445/- P%Cft Rs: 6534/-

2. Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" guage.(G.S.I.NO;6(a)P/17)

89.0 Cft @Rs: 337/- P.Cft Rs: 29993/-

3. Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars(G.S.I.NO.8(bP/17)

3.57 Cwt @Rs: 5001/70 P.Cwt Rs: 17856/-

4. Providing and laying 2" thick topping cement concrete (1:2:4)including surface finishing and dividing into panels (G.S.I.NO;16(d)P/42)

359.0 Sft @Rs: 3275/50 P%Sft Rs: 11759/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

5. Cement plaster 1:4 up to 12' height 1/2" thick.(GSINO.11(b) P-52)
 323.0 Sft @Rs: 2282/93 P%Sft Rs: 7377/-

6. White Wash Three Coats (GSINO.25(b)P/53)
 204.0 Sft @Rs: 829/95 P%Sft Rs: 1693/-

Total Rs: 75212/-

GROUP 'C' PUMP HOUSE @ WATER WORK

1. Dismantling c.c. reinforced separating reinforcement from concrete cleaning and straightening the same.(GSINO.20 P-10)

120.0 Cft @Rs: 5445/- P%Cft Rs: 6534/-

2. Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" guage.(G.S.I.NO;6(a)P/17)

89.0 Cft @Rs: 337/- P.Cft Rs: 29993/-

3. Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars(G.S.I.NO.8(b)P/17)

3.57 Cwt @Rs: 5001/70 P.Cwt Rs: 17856/-

4. Providing and laying 2" thick topping cement concrete (1:2:4)including surface finishing and dividing into panels (G.S.I.NO;16(d)P/42)

359.0 Sft @Rs: 3275/50 P%Sft Rs: 11759/-

5. Cement plaster 1:4 up to 12' height 1/2" thick.(GSINO.11(b) P-52)

323.0 Sft @Rs: 2282/93 P%Sft Rs: 7377/-

6. White Wash Three Coats (GSINO.25(b)P/53)

204.0 Sft @Rs: 829/95 P%Sft Rs: 1693/-

Total Rs: 75212/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'D' C.C. WORK ON PATH OF STORAGE TANK

| | | | | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|---------------------------|
| 1. | C.C. brick or stone ballast ½" 2" guage 1:4:8.(GsINO.4 (b)P-14) | | | | |
| | 1504.0 Cft @Rs: 9416/28 | P%Cft | | | Rs: 141697/- |
| 2. | Erection and removal of centering for R.C.C. or plain cement concrete works of deodar wood (2 nd Class)(G.S.I.No:19 b(ii) P/17) | | | | |
| | 2416.0 Sft @Rs: 3127/41 | P%Sft | | | Rs: 75559/- |
| 3. | Cement concrete plain including placing compacting finishing and curing, complete (i/c screening and washing of stone aggregate without shuttering (GSI No5 P/15) R:1:2:4. | | | | |
| | 685.0 Cft @Rs: 14429/25 | P%Cft | | | Rs: 98841/- |
| | Ratio 1:3:6 | | | | |
| | 1092.0 Cft @Rs: 12595/- | P%Cft | | | Rs: 137538/- |
| 4. | Cement Plaster 1:4 upto 12' height ½" thick. (GSINO.11(b)P-52) | | | | |
| | <u>For Parapet Wall</u> | | | | |
| | 2912.0 Sft @Rs: 2283/93 | P%Sft | | | Rs: 66500/- |
| | | | | | Total Rs: 520143/- |

GROUP 'E' DE-SILTING OF STORAGE TANK (2 NOS)

| | | | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|--------------------------|
| 1. | Earth work excavation in ashes, sand, soft, soil or silt clearance undressed lead upto 50'ft(GSINO.2 P-1) | | | | |
| | 14602.0 Cft @Rs: 1663/75 | P%oCft | | | Rs: 24294/- |
| 2. | Extra for wet earth work.(GSINO.15 P-4) | | | | |
| | 14602.0 Cft @Rs: 1058/75 | P%oCft | | | Rs: 15459/- |
| 3. | Carriage of 100cft/5 tons of all materials like stone aggregate, spawl, coal, lime, Surkhi etc: B.G Rail fastenings points and crossing bridges, Girders, pipe, Sheets Rails M.S Bars etc. or 1000 Nos 10"x5"x3" or 1000 Nos tiles 12"x6"x2"or 150 cft Of timber or 100 mounds of fuel wood by trucks or any other means owned by the Contractor.(SSINO.1 P/1)(Lead 1 miles) | | | | |
| | 14602.0 Cft @Rs: 407/- | P%Cft | | | Rs: 59430/- |
| | | | | | Total Rs: 99188/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'F' PUMPING MACHINERY

1. Supplying and installing in position i/c transportation to site of work at pangrio A.C electric pumping set consisting of A.C electric motor of type 10 BHP 1450 RPM 160L 60 coupled with KSB pump (ETA 100-315) size 5"x4 1/2" mounted on common steel frame or base plate capable of discharging 300 gallon minute against a head of 110 ft i/c installation of pumping set on c.c foundation ratio (1:2:4) and Ratio (1:4:8) with ballast with M.S nuts and bolts of 5/8" dia to be embedded in c.c foundation i/c providing and fixing on prepared board A.C cycles 3 phase 12/25 ampere trips rating push button type star delta starter complete with no volts and over lead release and required i/c providing and fixing on prepared board iron (clad) triple pole and neutral switch fuse with rewire able type fuse link carried 500 volts grade 30 ampere providing and fixing volts meter 0.500 volts and ampere meter 0.50 ampere installed on metaled board i/c providing and fixing metalled board to accommodated main or sub mains control switch's recessed in the wall size 3"x2"1/2" i/c providing phase indication bulbs with holder and providing internal electric electric wiring for mains with 12A plate size (1 1/2 x2) G.I plate curried and to ground at depth 7ft for base plate and testing of the pumping set against the required head for 72 hours etc complete.
(For Intake Works)3

Motor 10 BHP 1450 RPM

2.0 Sets @Rs:743150/- P.Set Rs: 1486300/-

2. S/Installing Diesel Engine set i/c transportation to site D/S Landhi Diesel Engine 16 BHP (Golden made) type GD-1100-B 2200 RPM i/c standard accession coupled with (KSB Non clogging pump type KWp2-65-315 capable discharge 180 GPM against head of 80 ft: mounted on common steel frame or base plate i/c installing of diesel pumping set of c.c. foundation Ratio 1:2:4 with M.S. nut & bolt of 5/8" dia to be embedded in c.c. foundation plinth of the pumping set for 72 hours under actual working condition etc: complete.

1.0 Set @Rs: 558257/- P.Set Rs: 558257/-

3. Manufacturing and installing M.S pipe made out of M.S lead 3/16" thick bending folding to correct curvature and shape i/c melding complete (R.A Approved Based on schedule)

FOR WATER WORK

48.0 Rft @Rs: 506/60 P.Rft Rs: 24316/-

4. Manufacturing and installing with welding M.S flanged made out of M.S sheet 4/8" thick i/c cutting drilling holes etc complete (R.A. Base of Schedule)

For 4"Dia

12.0 Nos @Rs: 596/75 Each Rs: 7161/-

5. C.I. Sluice valve heavy pattern (Test pressure) 21.0 kg/sq.com or 300lb/sq.inch)(imported)(SMINO..2(b)P-12)

3"dia

2 No @Rs: 4290/- Each Rs: 8580/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------------|----------------------|
| | 4"dia 2 No @Rs: 5460/- | Each | | Rs: 10920/- | |
| 6. | Reflex valve heavy pattern (Test pressure 21 lbs/sq.inch)(imported)(SMINO.6(a)P-12) | 21 | kg/sq.cm | or 300 | |
| | 3"dia 2 No @Rs: 1543/75 | Each | | Rs: 3088/- | |
| | 4"dia 2 No @Rs: 1706/25 | Each | | Rs: 3413/- | |
| 7. | Foot valve heavy pattern with cone type gate.(imported)(SMINO. 4(a)P-12) | | | | |
| | 4"dia 2 No @Rs: 893/75 | Each | | Rs: 1788/- | |
| 8. | C.I tappers flat bottomed or central tapered flanged end with holes i/c turning and facing of flanged for all sizes (SMI NO 9 P/12) | | | | |
| | 0.97 Cwt @Rs: 6096/- | P.Cwt | | Rs: 5913/- | |
| 9. | C.I.Bend with flanged end with holes i/c turning and facing of flanges for all sizes. (SMINO. 8 P-12) | | | | |
| | 1.20 Cwt @Rs: 6096/- | P.Cwt | | Rs: 7315/- | |
| 10. | C.I. Tee flanged end with holes including turning and facing of flanged for all size. (SMINO.12 P-12) | | | | |
| | 0.22 Cwt @Rs: 6096/- | P.Cwt | | Rs: 1371/- | |
| 11. | Jointing C.I/M.S. flanged pipes and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts, bolts with washers etc: and other tools required for jointing and testing the joints to the specified pressure etc: complete.(PHSINO. N-1 P-40) | | | | |
| | b) FOR 4"dia 24.0 Joint @Rs: 513/- | P.Joint | | Rs: 12312/- | |
| | c) FOR 3"dia 8.0 Joint @Rs: 499/- | P.Joint | | Rs: 3992/- | |
| Total | | | | | Rs: 2167195/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|------------------------------------|----------------|----------------|-----------|
| 1 | Distribution System | 1814236 | -- | 1814236 |
| 2 | Repair of Pump House @ Intake work | 75212/- | -- | 75212/- |
| 3 | Repair of Pump House @ Water work | 75212/- | -- | 75212/- |
| 4 | C.C.Work on Path of Storage Tank | 520143/- | -- | 520143/- |
| 5 | Desilting of Storage Tank | 99188/- | -- | 99188/- |
| 6 | Pumping Machinery | 122638/- | 2044557/- | 2167195/- |
| | Total | 2706629/- | 2044557/- | 4751186/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-


Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


 PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- REHABILITATION OF RURAL WATER SUPPLY SCHEME
SAHIB KHAN MIRANI TALUKA HYDERABAD (RURAL)
DISTRICT HYDERABAD

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | Rehabilitation Of Ruralwater Supply Scheme Sahib Khan Mirani Taluka Hyderabad (Rural) District Hyderabad |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 5.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 at 1:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: **REHABILITATION OF RURAL WATER SUPPLY**
SCHEME SAHIB KHAN MIRANI TALUKA
HYDERABAD (RURAL) DISTRICT HYDERABAD

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|---------------|
| <u>GROUP (A) P.E. RISING MAIN 8"DIA</u> | | | | | |
| 1. | Jungle clearance & removing with 100 ft (GSI No.4 P/95) | | | | |
| | 3000.0 Cft @Rs: 151/25 | P%o Sft | | | Rs: 454/- |
| 2. | Excavation for pipe lines into trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer in charge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5'ft(1.52m) and lead upto one chain (30.5mm)(P.H.S.I.NO. 1 P/60) 6" dia | | | | |
| | 42000.00 cft @Rs: 3600/- | P%ocft | | | Rs: 151200/- |
| 3. | P/L & fixing in trench i/c fitting jointing & testing (PHSI No. F(1) P/25) | | | | |
| | 6000.00 cft @Rs: 440/- | P.Rft | | | Rs: 2640000/- |
| 4. | Refilling the excavated stuff in trenches 6"thick layers i/c watering ramming to full compaction etc complete (PHSI No.24 P/77). | | | | |
| | 37800.0cft @Rs: 2760/- | P%ocft | | | Rs: 104328/- |
| 5. | High Density polyethylene (PE-100) fitting pcs Each (SMI No. B P/18) | | | | |
| i. | Elbow 90 degree (outer Dia) (SMINO. B P-18) P.No.8 – 225 mm | | | | |
| | 9 Nos @Rs: 3480/- | Each | | | Rs: 31320/- |
| | Elbow 45o | | | | |
| | 3 Nos @Rs: 2784/- | Each | | | Rs: 5568/- |
| ii. | Equal Tee (outer dia) (SMI No. B P/19) P.N 8 – 225 mm | | | | |
| | 2.0 Nos @Rs: 4175/- | Each | | | Rs: 8350/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------------|----------------------|
| 6. | Air valve double acting (Local) (SMI No 8 (b) P/12) 6" dia 3.00 Nos @Rs: 4000/- | Each | | | Rs: 12000/- |
| 7. | C.I sluice valve heavy pattern (SMI No.2 (b) P/11). (225mm) 6" dia 1.0 No @Rs: 9360/- | Each | | | Rs: 9360/- |
| 8. | Fire hydrant Tee (Screened outlets) (SMI No. 7 (c) P/11) 6" dia 3.00 Nos @Rs: 1687/50 | Each | | | Rs: 5063/- |
| 9. | Especial Cost Iron Fitting for PVC Pipe (SMI No.1 P/28). i. Tail piece 8" dia 2 Nos @Rs: 1298/- | Each | | | Rs: 2536/- |
| 10. | But Fusion Joint (SMI No. H P/20) 160 mm For Bend 15.00 Nos @Rs: 1000/- | Each | | | Rs: 15000/- |
| 11. | Jointing CI/M.S flanged Pipe and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts bolts with washers etc and other tools required for jointing and testing the joints to the specified pressure etc complete (PHSI No.1 (d) P/40) 6" dia 2.0 Joint @Rs: 938/- | Each | | | Rs: 1876/- |
| 12. | Providing chamber 3' x 2'(915x615mm) inside dimension 4 ½ (1372mm) deep as per approved design for sluice valve 3"dia to 12"dia with 18 (457mm)dia inside cost iron cover and frame (wt=1 cwt 3qr)fixed in RCC 1:2:4(102mm)thick (with 5 lbs steel per cft)9" (2199mm) thick brick masonry wall set in 1:6 cement martyr 6"(1152mm)thick cement concrete 1:3:6 in foundation 1"(25mm) thick c.c 1:2:4 flooring ½" (12.5mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at 4every one foot beyond 2 ½" ft depth curing excavation back filling and disposal of surplus earth etc complete. (PHSI No.1 P/49) 4.00 Nos @Rs: 18820/- | Each | | | Rs: 75280/- |
| 13. | Carriage of UPVC/P.E pipe of any class by mechanical transport i/c laod un load and stacking ins tie (Lead 122 miles) 6" dia 6000.0Rft @Rs: 261/43 | P%Rft | | | <u>Rs: 15686/-</u> |
| | | | | Total | Rs: 3078021/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP 'B' PUMPING MACHINERY 10 BHP

- | | | | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|-------------|---------------|
| 1. | S/Installing in position i/c transportation to site of work @ intake work for Rural water supply Scheme Sahib Khan Mirani electric pumping sets consisting of A.C. Electric Motor 10 BHP 3 phase 50 cycles 400/420 volts of 1450 RPM Siemens made (Type ILA-7)133-6 AA 60) coupled with centrifugal pump ETA Norm (Type 50-16) size 2 ½" to 2" mounted on common steel frame or base plate capable of discharge 185 gallons per minute against a head of 100 ft: i/c installing of pumping set on cement concrete foundation Ration 1:2:4 and C.C. 1:4:8 with ballast with M.S Nut and bolts of 5/8" to be embedded in C.C. foundation i/c providing Motor control unit MCU/SU 10 BHP A consists of circuit breaker, magnetic contractor, over load protection under/over voltage protection, phase failure protection, Ammeter with current transformer, voltmeter with potential transformer automatic Star-Delta change over switch, control and power cables, indicating lights and all these components are fixed in a metallic dust and smoke proof box (made)i/c providing and fixing earthing set with 2'x2'x1/4' copper plate buried in ground at a depth of 12" or less in water comes out from the ground level with salt and charcoal etc: i/c making the pit 12" deep by excavation of all type of soil, earth plate to be connected with No. 8 S/W/G bare copper wire run in ½" G.I. Pipe straight from the earth plate i/c 72 hours testing charge.(R.A. Attached) | 1 Set | @Rs: 2360100/- | P.Set | Rs: 2360100/- |
| 2. | G.I. Pipe of approved quality to be tested with pressure head of 200' ft: medium.(r.A. Based on Sch☺ | | | | |
| i. | Suction Pipe 3" dia 100 Rft | @Rs: 338/17 | P.Rft | Rs: 33817/- | |
| 3. | Providing Laying and fixing in trenches i/c fitting jointing and testing etc: complete in all respect the high density polyethylene pipe (HDPE-100) for w/s confirming ISO-427 DIN 8074/8075 BS-3580 and PSI 3051.(PHSINO.10 P-26) PN-10 | | | | |
| i. | 3" dia (C.D 90mm) 12 Rft | @Rs: 178/- | P.Rft | Rs: 2136/- | |
| ii. | Delivery pipe 4" dia 21.0 Rft | @Rs: 268/- | P.Rft | Rs: 5628/- | |
| 4. | M/I and finishing M.S. flanged 3/8" thick M.S. sheet of required size drilling holes i/c cutting bending to correct shape welding etc: complete.(R.A.Based on Sch) | | | | |
| | 3" dia 10 Nos | @Rs: 500/89 | Each | Rs: 5009/- | |
| 5. | C.I. Bend with flanged end with holes i/c turning and facing of flanges for all size. (PHSINO. 8 P-98) Suction Bend 90 3" dia 6.68 Kg | @Rs: 120/- | P.Kg | Rs: 801/- | |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|--------|
| 6. | P.E. Elbow PN-10 (PHSMINO.A P-18) 4" dia 3 Nos @Rs: 1655/- | Each | | Rs: 4965/- | |
| 7. | Providing & Laying (main or sub-main)PVC insulated with size 3-7/0.36 (4 mm)2 copper conduit ¾" dia PVC conduit on surface. (ESINO.18 P-3) 36.0 Rft @Rs: 85/06 | P.Rft | | Rs: 3062/- | |
| 8. | Providing and fixing earth set with 2'x2'x1/4' copper plate buried in ground at a depth of 12" or less if water comes out from the ground level with salt and charcoal etc i/c making the pit 12" deep by excavation of all type of soil earth plate to be connected with No. 8 S.W.G bare copper wire run in ½" G.I. Pipe straight from the earth plate. 1 Set @Rs: 25000/- | P.Set | | Rs: 25000/- | |
| 9. | C.I. Reflex valve heavy pattern (test pressure) 21 kg pser sq.or 300 lbs/sq.inch.(PHSINO.1 P-2) 3" dia 1 No @Rs: 1543/75 | Each | | Rs: 1544/- | |
| 10. | C.I. Foot valve heavy pattern with cone type gate imported.(SOMINO.4 P-12) 3" dia 1 No @Rs: 731/25 | Each | | Rs: 731/- | |
| 11. | C.I. sluice valve heavy pattern (test pressure) 21 kg per sq. or 300 lbs/sq. inch.(PHSINO.1 P-12) 3" dia 1 No @Rs: 4290/- | Each | | Rs: 4290/- | |
| 12. | C.I. Tappers flate bottomed or central tapered flanged ends with holes i/c turning and facing of flanges for all size.(SOMINO. 9 P-12) 10.50 Kg @Rs: 120/- | P.Kg | | Rs: 1260/- | |
| 13. | C.I. short Piece.(SOMINO. 9 P-15) 4' dia 1 No @Rs: 487/- | Each | | Rs: 487/- | |
| 14. | Jointing C.I M.S. flanged pipe and specials flanged and inside a trenches nuts and bolts with washer etc: and other is required for jointing and testing joints to the specified pressure etc: complete.(PHSINO.1 P-40) 3" dia 11.0 Joint @Rs: 499/- | P.Joint | | Rs: 548/- | |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-------------------------------------------------------------------------------------------------------------------|----------|------|--------------|---------------------|
| 15. | Cutting holes 4x6 in stone masonry or brick wall with chisel repairing masonry dibbers on chain.(GSINO. 72 P-109) | | | | |
| | 3.0 Holes @Rs: 169/40 | | | P.Hole | Rs: 508/- |
| 16. | Flange adapter.(R.A.A) 4"dia | | | | |
| | 1 No @Rs: 1215/- | | | Each | Rs: 1215/- |
| | 3" dia 1 No @Rs: 675/- | | | Each | Rs: 675/- |
| 17. | Butt: fusion joint.(SMINO. H P-20) | | | | |
| | 4"dia 7 Nos @Rs: 1000/- | | | Each | Rs: 7000/- |
| | 3" dia 1 No @Rs: 600/- | | | Each | Rs: 600/- |
| | | | | | <u>Rs: 600/-</u> /- |
| | | | | Total | Rs: 340317/- |

GROUP 'C' DISTRIBUTION AND NEW LIN 6",4" & 3" DIA

| | | | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------|--------------|
| 1. | Dismantling & Removing road metalling. (GSINO.51 P-13) | | | | |
| | 3500.0 Cft @Rs: 605/- | | | P%Cft | Rs: 21175/- |
| 2. | Dismantling c.c. plain 1:2:4 (GSINO.19(c)P-10) | | | | |
| | 2625.00 Cft @Rs: 3327/50 | | | P%Cft | Rs: 87347/- |
| 3. | Excavation for pipe lines into trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer in charge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5'ft(1.52m) and lead upto one chain (30.5mm)(P.H.S.I.NO. 1 P/60) | | | | |
| | 46120.0 Cft @Rs: 3600/- | | | P%ocft | Rs: 166032/- |
| 4. | Providing Laying uPVC Pressure pipe of class 'B' (equivalent)make fixing in trenches i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 61 meter or 200 ft. (PHSINO.1(a.b.d)P-22) | | | | |
| | 6"dia 600.0 Rft @Rs: 262/- | | | P.Rft | Rs: 157200/- |
| | 4"dia 2000.0 Rft @Rs: 137/- | | | P.Rft | Rs: 274000/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-------------------------------------------------------------------|----------|------|------|--------------|
| | 3"dia 4400.0 Rft @Rs: 90/- | P.Rft | | | Rs: 396000/- |
| 5. | PVC 'Z' Joint fitting. (SMINO. 8(I,ii) P-26) | | | | |
| i. | <u>PVC TEE</u> PVC TEE 6" dia 8 Nos @Rs: 1800/- | Each | | | Rs: 14400/- |
| | 4"dia 20 Nos @Rs: 1181/- | Each | | | Rs: 23620/- |
| | 3"dia 12 Nos @Rs: 900/- | Each | | | Rs: 10800/- |
| ii. | <u>PVC BEND</u> PVC Bend 6" dia 1 No @Rs: 1913/- | Each | | | Rs: 1913/- |
| | 4"dia 5 Nos @Rs: 956/- | Each | | | Rs: 4780/- |
| | 3"dia 8 Nos @Rs: 731/- | Each | | | Rs: 5848/- |
| 6. | Special cost iron fitting for PVC pipe.(SMINO.1 P-28) | | | | |
| i. | <u>PVC CROSS PLAIN</u> PVC Cross 6" dia 1 No @Rs: 2475/- | Each | | | Rs: 2475/- |
| | 4"dia 12 Nos @Rs: 1298/- | Each | | | Rs: 15576/- |
| | 3"dia 1 No @Rs: 934/- | Each | | | Rs: 934/- |
| ii. | <u>PVC REDUCER PLAIN</u> 4"x 3" (4"dia) 5 Nos @Rs: 1258/- | Each | | | Rs: 6290/- |
| | 6"x 3" (6" dia) 1 No @Rs: 1866/- | Each | | | Rs: 1866/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------|--------------|------|------|-------------|
| iii. | PVC. End Plug. 6"dia 1 No | @Rs: 850/- | | Each | Rs: 850/- |
| | 4"dia 8 Nos | @Rs: 544/- | | Each | Rs: 4352/- |
| | 3"dia 42 Nos | @Rs: 382/- | | Each | Rs: 16044/- |
| iv. | C.I. Giboult Joint.(PHSMINO. 14 P-18) 6"dia 5 Nos | @Rs: 1062/50 | | Each | Rs: 5313/- |
| | 4"dia 2 Nos | @Rs: 731/25 | | Each | Rs: 1463/- |
| | 3"dia 2 Nos | @Rs: 568/75 | | Each | Rs: 1138/- |
| 7. | PVC Socket.(SMINO.111 P-27) 6"dia 2 Nos | @Rs: 1575/- | | Each | Rs: 3150/- |
| | 4"dia 2 Nos | @Rs: 1125/- | | Each | Rs: 2250/- |
| | 3"dia 2 Nos | @Rs: 405/- | | Each | Rs: 810/- |
| 8. | C.I. Short Piece.(PHSMINO. 9 P-16) 6"dia 5 Nos | @Rs: 618/75 | | Each | Rs: 3094/- |
| | 4"dia 2 Nos | @Rs: 487/50 | | Each | Rs: 975/- |
| 9. | C.I. Sluice valve heavy pattern (Test Pressure)21.0kg/sq/cm or 300 lb/sq.inch)(imported)(SMINO. 2.(b) P-11) 6"dia 1 No | @Rs: 9360/- | | Each | Rs: 9360/- |
| | 4"dia 1 No | @Rs: 5460/- | | Each | Rs: 5460/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

10. Providing chamber 21/2x2 1/2 (750x750' mm) inside dia mansion 4 1/2'(1372mm) Deep as per approved design for sluice valve 3"to 12"dia with 18"(457mm)dia inside cast iron cover and frame (wt=1 Cwt 3 qr)fixed in RCC 1:2:4 (102 mm)thick (with 5 lbs steel per cft)9"(299mm)thick brick masonry walls set in 1:6 cement mortar 6"(1152mm)thick c.c 1:3:6 in foundation 1(25mm)thick c.c 1:2:4 flooring 1/2" (12.5mm)thick cement plaster 1:3 to all inside wall surface and top i/c providing and fixing M.S foot beyond 2 1/2'ft depth curing excavation back filling and disposal of surplus earth etc :complete(PHSINO.1P/49)

2.0 Nos @Rs: 18820/- Each Rs: 37640/-

11. Refilling the excavated stuff in trenches 6" thick layers i/c watering ramming to full compaction etc: complete.(PHSINO.24 P-77)

41508.0 Cft @Rs: 2760/- P%oCft Rs: 114562/-

12. Making joint to PVC specials fitting (i/c laying of specials and cost of solvent cement)of required diameter and testing the joint along with PVC pipeline 'B', 'C' and 'D' class to the specified and making good to all leaky joints etc: complete. (PHSINO.1 P-41)

6" 12.0 Nos @Rs: 96/- Each Rs: 1152/-

4" 78.0 Nos @Rs: 70/- Each Rs: 5460/-

3" 63.0 Nos @Rs: 59/- Each Rs: 3717/-

13. Jointing C.I/M..S. flanged pipe and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts bolts with washers etc: and other tools required for jointing and testing the joint to the specified pressure etc: complete.(PHSINO.1(d) P-40)

6" 5.0 Joint @Rs: 938/- P.Joint Rs: 4690/-

4" 2.0 Joint @Rs: 513/- P.Joint Rs: 1026/-

Total Rs: 1413062/-

GROUP 'C' PUMP HOUSE @ WATER WORK

1. Dismantling c.c. reinforced separating reinforcement from concrete cleaning and straightening the same. (GSINO.20 P-10)

120.0 Cft @Rs: 5445/- P%oCft Rs: 6534/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|--------------|---------------------|
| 2. | Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering curing rendering and finishing the exposed surface)\(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" guage.(G.S.I.NO;6(a)P/16) | 120.0 Cft | @Rs: 337/- | P.Cft | Rs: 40440/- |
| 3. | Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars(G.S.I.NO.8(b)P/16) | 4.82 Cwt | @Rs: 5001/70 | P.Cwt | Rs: 24008/- |
| 4. | Cement Plaster 1:4 upto 12"height 1/2 thick (G.S.I.NO.10(b)P/51) | 429.0 Sft | @Rs: 2282/93 | P%Sft | Rs: 9798/- |
| 5. | Cement Concrete plain including placing compacting finishing and curing complete (including screening and washing at stone aggregate without (GSINO.5(h))P/15)(1:2:4) | 38.00 Cft | @Rs: 14429/25 | P%ocft | Rs: 5483/- |
| 6. | Providing and laying 1" thick topping cement concrete (1:2:4)including surface finishing and dividing into panels (G.S.I.NO;16(d)P/41) | 239.0 Sft | @Rs: 3275/50 | P%Sft | Rs: 7828/- |
| 7. | Colour wash 2 Coat.(G.S.I.NO.25(b)P/53) | 429.0 Sft | @Rs: 859/90 | P%Sft | Rs: 3689/- |
| 8. | Painting old surface preparing surface and painting of door land window any type i/c edges to subsequent cost over primary i/c cost three costs. (GSINO.41 P-62) | 109.0 Sft | @Rs: 2116/41 | P%Sft | Rs: 2307/- |
| | | | | TOTAL | Rs: 100087/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|------------------------------------|----------------|----------------|-----------|
| 1 | P.E. Rising main 8"dia | 3078021/- | -- | 1814236 |
| 2 | Pumping Machinery | 104217/- | 236100/- | 340317/- |
| 3 | Repair of Distribution System Line | 1413062/- | -- | 1413062/- |
| 4 | Repair of Pump House @ Water Works | 100087/- | -- | 100087/- |
| | Total | 4695387/- | 236100/- | 4931487/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


 PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- **REHABILITATION OF WATER SUPPLY SCHEME**
SAINDAD ALYANI DISTRICT MIRPURKHAS.

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF WATER SUPPLY SCHEME SAINDAD ALYANI DISTRICT MIRPURKHAS. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 2.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

BILL OF QUANTITY

**(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SHEDULE OF RATES**

**NAME OF WORK:- REHABILITATION OF RURAL WATER SUPPLY SCHEME SAINDAD
ALYANI DISTRICT MIRPURKHAS**

| S. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------|--------|------|-----------|
| PART-A RENOVATION WORK. | | | | | |
| 1.Excavation in foundation of building bridges and other structure i/c belling dressing refilling around structure with excavated earth watering and ramming lead up to 5 ft in ordinary soil (in as I No:18 (b)p-4) | | | | | |
| 688.00 | Cft @ Rs. | 3176.25 | P%oCft | Rs | 2185 /- |
| 2. C.C brick or stone ballast 1 1/2" to 2" guage (GSI No.4(b) P/17). | | | | | |
| <u>Ratio 1:4:8</u> | | | | | |
| 1128.00 | Cft @ Rs. | 9416.28 | P%Cft | Rs | 106216 /- |
| 3. Cement concrete plain i/c placing compacting finishing and curring complete i/c screening and washing of stone aggregate without shuttering ratio (GSI No.4(b) P/17). | | | | | |
| a) Ratio 1:2:4 | | | | | |
| 750.00 | Cft @ Rs. | 14429.7 5 | P%Cft | Rs | 108223 /- |
| b) Ratio 1:3:6 | | | | | |
| 3555.97 | Cft @ Rs. | 12595.0 0 | P%Cft | Rs | 447874 /- |
| b) Ratio 1:4:8 | | | | | |
| 95.00 | Cft @ Rs. | 11288.7 5 | P%Cft | Rs | 10724 /- |
| 4.Pucca brick work in foundation and plinth in cement sand motor (1:6) (GSI No.5(i)(e) -P20). | | | | | |
| 690.00 | Cft @ Rs. | 11948.3 6 | P%Cft | Rs | 82444 /- |
| 5. Cement Plaster 1:4 upto 12" height 1/2 thick (GSI No.10(b)P/51). | | | | | |
| 677.60 | Sft @ Rs. | 2283.93 | P%Sft | Rs | 15476 /- |
| 6. Providing centrifugal pump (KSB) ETA 65-20 size 3x2-1/2 capable of dischage 240 gallons per minute against a head of 130 ft (N.S.I) | | | | | |
| 1.00 | No @ Rs. | 175000. 0 | Each | Rs | 175000 /- |

7. White wash 2 coat (GSI No.26(a) P/54)

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|----|------|----|
| 315.00 | Sft | @ | Rs. | 425.84 | P%Sft | Rs | 1341 | /- |
|--------|-----|---|-----|--------|-------|----|------|----|

8. Colour washing 2 coat (GSI No.26(a) P/54)

| | | | | | | | | |
|---------|-----|---|-----|--------|-------|----|-------|----|
| 8822.00 | Sft | @ | Rs. | 859.90 | P%Sft | Rs | 75860 | /- |
|---------|-----|---|-----|--------|-------|----|-------|----|

9. Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of paris and then painting with weather coat of approved make 02 coats (new surface) (S.I.No. 38, P-56).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|----|-------|----|
| 726.00 | Sft | @ | Rs. | 1948.10 | P%Sft | Rs | 14143 | /- |
|--------|-----|---|-----|---------|-------|----|-------|----|

10. Painting old surface (b) painting guard bars, gates iron bars gratings, railings i/c standard braces (etc) and similar open work any type 03 coats (S.I.No.4/d P-69).

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|----|------|----|
| 272.00 | Sft | @ | Rs. | 976.58 | P%Sft | Rs | 2656 | /- |
|--------|-----|---|-----|--------|-------|----|------|----|

11. Jungle clearance and Removing within 100 ft (S.I.No.4/b P-94).

| | | | | | | | | |
|----------|-----|---|-----|--------|--------|----|------|----|
| 56177.00 | Sft | @ | Rs. | 151.25 | P%oSft | Rs | 8497 | /- |
|----------|-----|---|-----|--------|--------|----|------|----|

12. Providing and laying main or sub-main PVC insulated & PVC sheeted with 4 core copper conductor 300/500 watts size 10mm² (E.I.No. P-).

| | | | | | | | | |
|-------|-----|---|-----|--------|--------|----|-------|----|
| 20.00 | Mtr | @ | Rs. | 742.00 | P:Mtr: | Rs | 14840 | /- |
|-------|-----|---|-----|--------|--------|----|-------|----|

13. Providing and fixing (KSB) Automatic motor control unit new/sd-3037 A consist of circuit breaker, magnetic contractor, over load protection, under/ever voltage protection, phase failure protection, ammeter with current transformer, voltmeters with potential transformer automatic star delta chage over switch, control and power cable (3-19/1.53) (19/0.64) indicating lights and all these components are fixed in a metallic dust and smke proof box etc.

| | | | | | | | | |
|------|----|---|-----|---------|------|----|-------|----|
| 1.00 | No | @ | Rs. | 48750.0 | Each | Rs | 48750 | /- |
|------|----|---|-----|---------|------|----|-------|----|

14. Manufacturing and installing 6"dia M.S.Pipe made out of M.S.Sheet (3/16")thick M.S.Sheet i/c cutting bending folding to correct curvature as shpe (R.A.Based on schedule items). 6"dia

| | | | | | | | | |
|-------|-----|---|-----|--------|--------|----|-------|----|
| 40.00 | Mtr | @ | Rs. | 749.39 | P:Mtr: | Rs | 29976 | /- |
|-------|-----|---|-----|--------|--------|----|-------|----|

15. Manufacturing and installing 6"dia M.S.flange madeout of M.S.Sheet 3/8"thick etc complete. (R.A.Based on schedule items). 6"dia

| | | | | | | | | |
|------|----|---|-----|--------|------|----|------|----|
| 8.00 | No | @ | Rs. | 804.77 | Each | Rs | 6438 | /- |
|------|----|---|-----|--------|------|----|------|----|

16. Laying cost iron / M.S pipe (S&S) and flanged and specials and fixing in trenches i/c cutting fitting and testing with water to specified pressure (P.H.S.I.No. D-1 P/78). 6"dia

| | | | | | | | | |
|-------|-----|---|-----|-------|-------|----|-----|----|
| 40.00 | Rft | @ | Rs. | 11.64 | P:Rft | Rs | 466 | /- |
|-------|-----|---|-----|-------|-------|----|-----|----|

17. Earth work excavation in ashes sand soft soil or silt clearance undressed lead upto 50 ft (P.H.S.I.No. 2 P-1).

| | | | | | | | | |
|----------|-----|---|-----|---------|---------|----|-------|----|
| 21377.00 | Cft | @ | Rs. | 1663.75 | P:%oCft | Rs | 35566 | /- |
|----------|-----|---|-----|---------|---------|----|-------|----|

18. Extra every 50ft additional lead or part thereof (P.H.S.I.No. P-).

| | | | | | | | | | |
|----------|-----|---|-----|--------|---------|----|------------------|-------------------|-----------|
| 21377.00 | Cft | @ | Rs. | 705.46 | P:%oCft | Rs | 15081 | /- | |
| | | | | | | | Total 'A' | Rs 1201756 | /- |

GROUP 'B' PVC DISTRIBUTION SYSTEME

1. Providing Laying uPVC pressure pipe of class 'B' (equivalent) make fixing in trenches i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to head 61 meter or 200 ft (PHSI No.1)a,b,cd)P/22).

For 6" dia

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|----|--------|----|
| 450.00 | Rft | @ | Rs. | 262.00 | P.Rft | Rs | 117900 | /- |
|--------|-----|---|-----|--------|-------|----|--------|----|

For 4" dia

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|----|-------|----|
| 500.00 | Rft | @ | Rs. | 137.00 | P.Rft | Rs | 68500 | /- |
|--------|-----|---|-----|--------|-------|----|-------|----|

For 3" dia

| | | | | | | | | |
|---------|-----|---|-----|-------|-------|----|-------|----|
| 1000.00 | Rft | @ | Rs. | 90.00 | P.Rft | Rs | 90000 | /- |
|---------|-----|---|-----|-------|-------|----|-------|----|

2. Excavation for pipe line entrenches, and pits in soft soil i/c Trimming and dressing sides to true alignment and shape leveling Of beds of trenches to correct level and grade, cutting joint holes And disposal of surplus earth within a one chain as directed by Engineer Incharge, providing fence guards lights, flange and temporary Crossing for non vehicular traffic where ever required lift upto 5 ft (1.52 m) and lead upto 1 chain. (30.5 m) (PHSI No.1 P-46)

| | | | | | | | | |
|----------|-----|---|-----|---------|--------|----|-------|----|
| 11463.00 | Cft | @ | Rs. | 3600.00 | P%oCft | Rs | 41267 | /- |
|----------|-----|---|-----|---------|--------|----|-------|----|

3. C.I Sluice valve heavy pattern (Test Pressure) 21.0Kg/sq/xm or 300 lns/sq.inch(importe)(SMI No,2(b) P-11).

| | | | | | | | | |
|------|----|---|-----|---------|------|----|-------|----|
| 2.00 | No | @ | Rs. | 9360.00 | Each | Rs | 18720 | /- |
|------|----|---|-----|---------|------|----|-------|----|

4. Cost of iron Special for PVC pipe (SMI No.1 P/28).

For 4" dia

| | | | | | | | | |
|------|----|---|-----|--------|------|----|------|----|
| 3.00 | No | @ | Rs. | 893.75 | Each | Rs | 2681 | /- |
|------|----|---|-----|--------|------|----|------|----|

ii) Tail piece 6" dia

| | | | | | | | | |
|------|----|---|-----|--------|------|----|------|----|
| 4.00 | No | @ | Rs. | 618.75 | Each | Rs | 2475 | /- |
|------|----|---|-----|--------|------|----|------|----|

iii) Gibault joint

For 6" dia

| | | | | | | | | |
|------|----|---|-----|---------|------|----|------|----|
| 4.00 | No | @ | Rs. | 1062.60 | Each | Rs | 4250 | /- |
|------|----|---|-----|---------|------|----|------|----|

For 4" dia

| | | | | | | | | |
|------|----|---|-----|--------|------|----|------|----|
| 8.00 | No | @ | Rs. | 731.25 | Each | Rs | 5850 | /- |
|------|----|---|-----|--------|------|----|------|----|

For 3" dia

10.00 No @ Rs. 568.75 Each Rs 5688 /-

5. Jointing C.I./M.S flanged pipes and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts and bolts with washers etc and other tools required for jointing and testing the joints in the specified pressure etc complete (P.H.S.I.No. 01 P-40).

For 6" dia

14.00 No @ Rs. 938.00 P:Joint Rs 13132 /-

For 4" dia

8.00 No @ Rs. 513.00 P:Joint Rs 4104 /-

For 3" dia

10.00 No @ Rs. 499.00 P:Joint Rs 4990 /-

6. Refilling the excavated earth stuff in trenches 6" layers i/c watering ramming to full completion etc complete. (PHSI No.24 P-65).

10317.00 Cft @ Rs. 2760.00 P%oCft Rs 28475 /-

Total 'B' Rs 408032 /-

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|---------------------|----------------|----------------|-----------|
| 1 | Renovation Work | 978006/- | 223750/- | 1201756/- |
| 2 | Distribution System | 408032/- | -- | 408032/- |
| | Total | 1386038/- | 223750/- | 1609788/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

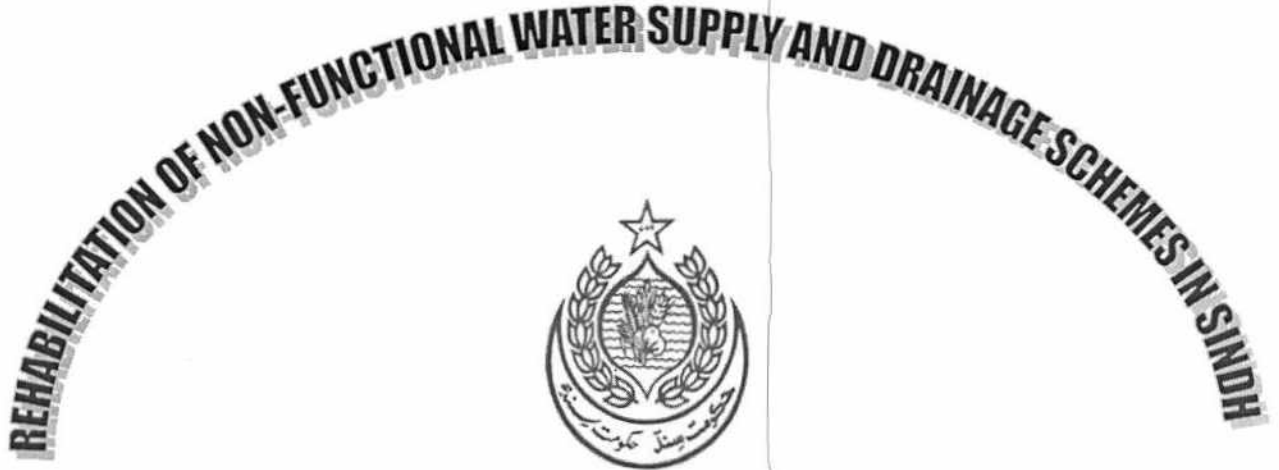
Total Rs:-

In Words _____



CONTRACTORS

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)


Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- REHABILITATION OF WATER SUPPLY SCHEME
MOHSIN RAZA FARM DISTRICT MIRPURKHAS.

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-

STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF WATER SUPPLY SCHEME MOHSIN RAZA FARM DISTRICT MIRPURKHAS. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 8.500 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1.:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2:00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |



PROJECT ENGINEER

BILL OF QUANTITY

**(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES**

**NAME OF WORK:- RE-HABILITATION OF RURAL WATER SUPPLY SCHEME MOHSIN
RAZA FARM DISTRICT MIRPURKHAS.**

| S. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|-------|--------------------------------------------|----------|------|------|--------|
|-------|--------------------------------------------|----------|------|------|--------|

PART 'A' FEEDING CHANNEL.

1. Excavation in foundation of building bridges and other structure i/c belling dressing refilling around structure with excavated earth watering and ramming lead up to 5 ft in ordinary soil (in as I No:18 (b)p-4)

6250.00 Cft @ Rs. 3176.25 P%oCft Rs. 19852 /-

5. C.C brick or stone ballast 1 1/2" to 2" guage (GSI No.4(b) P/17).

Ratio 1:4:8

1250.00 Cft @ Rs. 9416.28 P%Cft Rs. 117704 /-

3. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio (1:4:8). (GSI: 5,P-16)

170.00 Cft @ Rs. 14429.25 P%Cft Rs. 24530 /-

4. Pucca brick work in foundation and plinth in cement sand mortar (1:6) (GSI No.4 (e) -P-37).

3750.00 Cft @ Rs. 11948.36 P%Cft Rs. 448064 /-

5. Cement Plaster 1:4 upto 12" height 1/2 thick (GSI No.10(b)P/51).

6160.00 Sft @ Rs. 2283.93 P%Sft Rs. 140690 /-

Total'A' Rs. 750838 /-

GROUP 'B' PVC DISTRIBUTION SYSTEME

1. Providng Laying uPVC pressure pipe of class 'B' (equivalent) make fixing in trenches i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to head 61 meter or 200 ft (PHSI No.1)a,b,cd)P/22).

For 6" dia

1500.00 Rft @ Rs. 262.00 P.Rft Rs. 393000 /-

For 4" dia

2500.00 Rft @ Rs. 137.00 P.Rft Rs. 342500 /-

For 3" dia

4500.00 Rft @ Rs. 90.00 P.Rft Rs. 405000 /-

2. Excavation for pipe line entrenches, and pits in soft soil i/c Trimming and dressing sides to true alignment and shape leveling Of beds of trenches to correct level and grade, cutting joint holes And disposal of surplus earth within a one chain as directed by Engineer Incharge, providing fence guards lights, flange and temporary Crossing for non vehicular traffic where ever required lift upto 5 ft (1.52 m) and lead upto 1 chain. (30.5 m) (PHSI No.1 P-46)

49438.00 Cft @ Rs. 3600.00 P%oCft Rs. 177977 /-

3. C.I Sluice valve heavy pattern (Test Pressure) 21.0Kg/sq/xm or 300 lns/sq.inch(importe)(SMI No,2(b) P-11).

For 6" dia

2.00 No @ Rs. 9360.00 Each Rs. 18720 /-

For 4" dia

2.00 No @ Rs. 5460.00 Each Rs. 10920 /-

4 Cost of iron Special for PVC pipe (SMI No.1 P/28).

C.I.Tail piece

For 6" dia

4.00 No @ Rs. 618.75 Each Rs. 2475 /-

For 4" dia

4.00 No @ Rs. 487.50 Each Rs. 1950 /-

Bend 90o

For 6" dia

3.00 No @ Rs. 2212.50 Each Rs. 6638 /-

For 4" dia

5.00 No @ Rs. 893.75 Each Rs. 4469 /-

For 3" dia

10.00 No @ Rs. 650.00 Each Rs. 6500 /-

Bend 45o

For 6" dia

1.00 No @ Rs. 1787.50 Each Rs. 1788 /-

For 4" dia

2.00 No @ Rs. 731.25 Each Rs. 1463 /-

For 3" dia

| | | | | | | | | |
|---------------------------|----|---|-----|---------|------|-----|------|----|
| 2.00 | No | @ | Rs. | 568.75 | Each | Rs. | 1138 | /- |
| Tee Equal | | | | | | | | |
| For 6" dia | | | | | | | | |
| 2.00 | No | @ | Rs. | 1950.00 | Each | Rs. | 3900 | /- |
| For 4" dia | | | | | | | | |
| 4.00 | No | @ | Rs. | 1375.00 | Each | Rs. | 5500 | /- |
| For 3" dia | | | | | | | | |
| 7.00 | No | @ | Rs. | 968.75 | Each | Rs. | 6781 | /- |
| Tee Equal un-equal | | | | | | | | |
| For 6" dia | | | | | | | | |
| 3.00 | No | @ | Rs. | 1375.00 | Each | Rs. | 4125 | /- |
| For 4" dia | | | | | | | | |
| 6.00 | No | @ | Rs. | 956.25 | Each | Rs. | 5738 | /- |
| Reducer | | | | | | | | |
| 6 x 4 | | | | | | | | |
| 2.00 | No | @ | Rs. | 893.75 | Each | Rs. | 1788 | /- |
| 4 x 3 | | | | | | | | |
| 4.00 | No | @ | Rs. | 568.75 | Each | Rs. | 2275 | /- |
| Ded end 3" dia | | | | | | | | |
| 8.00 | No | @ | Rs. | 368.75 | Each | Rs. | 2950 | /- |

5. Making joint to PVC specials fitting including laying of the required dia meter and testing the joint along with the A.C.Pressure pipe lying to the specified pressure and making good to all leaky joints etc complete(PHSI.No.1 P-41).

| | | | | | | | | |
|-------------------|-------|---|-----|-------|---------|-----|------|----|
| For 6" dia | | | | | | | | |
| 9.00 | Joint | @ | Rs. | 96.00 | P:Joint | Rs. | 864 | /- |
| For 4" dia | | | | | | | | |
| 29.00 | Joint | @ | Rs. | 70.00 | P:Joint | Rs. | 2030 | /- |
| For 3" dia | | | | | | | | |
| 14.00 | Joint | @ | Rs. | 59.00 | P:Joint | Rs. | 826 | /- |

6. Jointing C.I/M.S flanged pipes and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts bolts with washers etc and other tools required for jointing and testing the joints in the specified pressure etc complete (P.H.S.I.No. 01 P-40).

For 6" dia

| | | | | | | | | |
|------|-------|---|-----|--------|---------|-----|------|----|
| 4.00 | Joint | @ | Rs. | 938.00 | P:Joint | Rs. | 3752 | /- |
|------|-------|---|-----|--------|---------|-----|------|----|

For 4" dia

| | | | | | | | | |
|------|-------|---|-----|--------|---------|-----|------|----|
| 4.00 | Joint | @ | Rs. | 513.00 | P:Joint | Rs. | 2052 | /- |
|------|-------|---|-----|--------|---------|-----|------|----|

7. Refilling the excavated earth stuff in trenches 6" layers i/c watering ramming to full completion etc complete. (PHSI No.24 P-65).

| | | | | | | | | |
|----------|-----|---|-----|---------|--------|-----|--------|----|
| 44494.00 | Cft | @ | Rs. | 2760.00 | P%oCft | Rs. | 122803 | /- |
|----------|-----|---|-----|---------|--------|-----|--------|----|

Total'B' Rs. 1539919 /-

GROUP 'C' COMPOUND WALL

1.Excavation in foundation of building bridges and other structure i/c belling dressing refilling around structure with excavated earth watering and ramming lead up to 5 ft in ordinary soil (in as I No:18 (b)p-4)

| | | | | | | | | |
|---------|-----|---|-----|---------|--------|-----|------|----|
| 2070.00 | Cft | @ | Rs. | 3176.25 | P%oCft | Rs. | 6575 | /- |
|---------|-----|---|-----|---------|--------|-----|------|----|

2. C.C brick or stone ballast 1 1/2" to 2" guage (GSI No.4(b) P/17).

Ratio 1:4:8

| | | | | | | | | |
|--------|-----|---|-----|---------|--------|-----|-------|----|
| 675.00 | Cft | @ | Rs. | 9416.28 | P%oCft | Rs. | 63560 | /- |
|--------|-----|---|-----|---------|--------|-----|-------|----|

3. Pucca brick work in foundation and plinth in cement sand mortar (1:6) (GSI No.4 (e) -P-37).

| | | | | | | | | |
|---------|-----|---|-----|----------|--------|-----|--------|----|
| 2506.00 | Cft | @ | Rs. | 11948.36 | P%oCft | Rs. | 299426 | /- |
|---------|-----|---|-----|----------|--------|-----|--------|----|

4. Pucca brick work in other than building in cement sand mortar (1:6) (GSI No.7(d)(e) -P22).

| | | | | | | | | |
|---------|-----|---|-----|----------|--------|-----|--------|----|
| 1566.00 | Cft | @ | Rs. | 12346.65 | P%oCft | Rs. | 193349 | /- |
|---------|-----|---|-----|----------|--------|-----|--------|----|

5. Cement Plaster 1:4 upto 12" height 1/2" thick (GSI No.10(b)P/51).

| | | | | | | | | |
|---------|-----|---|-----|---------|-------|-----|--------|----|
| 6136.00 | Sft | @ | Rs. | 2283.93 | P%Sft | Rs. | 140142 | /- |
|---------|-----|---|-----|---------|-------|-----|--------|----|

6. Cement pointing struck joints on wall (b) ratio 1:3 (GSI No.19(b) P/58).

| | | | | | | | | |
|---------|-----|---|-----|---------|-------|-----|-------|----|
| 3990.00 | Sft | @ | Rs. | 1213.58 | P%Sft | Rs. | 48422 | /- |
|---------|-----|---|-----|---------|-------|-----|-------|----|

7. White washing on walls two coats (GSI No.26(b) P/60).

| | | | | | | | | |
|---------|-----|---|-----|--------|-------|-----|-------|----|
| 6136.00 | Sft | @ | Rs. | 425.84 | P%Sft | Rs. | 26130 | /- |
|---------|-----|---|-----|--------|-------|-----|-------|----|

8. Colour washing on walls two coats (GSI No.25(b) P/55).

| | | | | | | | | |
|----------|-----|---|-----|--------|-------|-----|-------|----|
| 10126.00 | Sft | @ | Rs. | 859.90 | P%Sft | Rs. | 87073 | /- |
|----------|-----|---|-----|--------|-------|-----|-------|----|

9. Making & Fixing steel grated doors with 1/16" thick sheeting i/c angle iron from 2"x2" 3/8" sq bars 4" center to center with locking arrangement (GSI No.24 P/91).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 72.00 | Sft | @ | Rs. | 726.72 | P.Sft | Rs. | 52324 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

10. Damp proof course with cement sand and shingle concrete 1:2:4 i/c 2 coats of asphaltic mixture (b) 2"thick (GSI No.28(b) P/97).

| | | | | | | | | |
|---------|-----|---|-----|---------|-------|-----|-------|----|
| 1039.00 | Sft | @ | Rs. | 3912.85 | P%Sft | Rs. | 40655 | /- |
|---------|-----|---|-----|---------|-------|-----|-------|----|

11. Painting new surface:- © preparing surface and painting doors windows of any type i/c edge (GSI No 5 (c-iii) P-70).

| | | | | | | | | |
|-------|-----|---|-----|---------|-------|-----|-----|----|
| 24.00 | Sft | @ | Rs. | 2116.41 | P%Sft | Rs. | 508 | /- |
|-------|-----|---|-----|---------|-------|-----|-----|----|

12. Reinforcement cement concrete work including all labours and made except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) (a) R.C work in roof slab, beams columns rafts lintels and other structural members laid in situ or pre cast laid in position complete in all respect (i) (Ratio 1:2:4) 90lbs cement 2 cft sand 4cft shingle 1/8" to 1/4" gauge (GSI No.6(a)(i)P/19).

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|-----|-------|----|
| 126.75 | Cft | @ | Rs. | 337.00 | P.Cft | Rs. | 42715 | /- |
|--------|-----|---|-----|--------|-------|-----|-------|----|

13. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints & fastening i/c cost of binding wire (also includes removal rust from bars) (GSI: No: 7(ii) P-19)

| | | | | | | | | |
|-------|-----|---|-----|---------|-------|-----|-------|----|
| 5.093 | Cwt | @ | Rs. | 5001.70 | P.Cwt | Rs. | 25474 | /- |
|-------|-----|---|-----|---------|-------|-----|-------|----|

| | | | | | | | | | |
|--|--|--|--|--|--|-----------------|------------|----------------|-----------|
| | | | | | | Total'C' | Rs. | 1026351 | /- |
|--|--|--|--|--|--|-----------------|------------|----------------|-----------|

GROUP 'B' PUMP HOUSE (10'x12').

1. Excavation in foundation of building bridges and other structure i/c belling dressing refilling around structure with excavated earth watering and ramming lead up to 5 ft in ordinary soil (in as I No:18 (b)p-4)

| | | | | | | | | |
|--------|-----|---|-----|---------|--------|-----|-----|----|
| 143.00 | Cft | @ | Rs. | 3176.25 | P%oCft | Rs. | 454 | /- |
|--------|-----|---|-----|---------|--------|-----|-----|----|

2. C.C brick or stone ballast 1 1/2" to 2" guage (GSI No.4(b) P/17).

Ratio 1:4:8

| | | | | | | | | |
|-------|-----|---|-----|---------|-------|-----|------|----|
| 74.00 | Cft | @ | Rs. | 9416.28 | P%Cft | Rs. | 6968 | /- |
|-------|-----|---|-----|---------|-------|-----|------|----|

3. Pucca brick work in foundation and plinth in cement sand mortar (1:6) (GSI No.4(i)(e) -P-6).

| | | | | | | | | |
|--------|-----|---|-----|----------|-------|-----|-------|----|
| 164.00 | Cft | @ | Rs. | 11948.36 | P%Cft | Rs. | 19595 | /- |
|--------|-----|---|-----|----------|-------|-----|-------|----|

4. Damp proof course with cement sand and shingle concrete 1:2:4 i/c 2 coats of asphaltic mixture (b) 2"thick (GSI NO.28/b P/19).

| | | | | | | | | |
|-------|-----|---|-----|---------|--------|-----|------|----|
| 53.00 | Sft | @ | Rs. | 3912.85 | P:%Sft | Rs. | 2074 | /- |
|-------|-----|---|-----|---------|--------|-----|------|----|

5. Pucca brick work in ground floor i/c striking joint in cement sand mortar (1:6) (GSI No.5(i)(e) -P20).

| | | | | | | | | |
|--------|-----|---|-----|----------|-------|-----|-------|----|
| 274.00 | Cft | @ | Rs. | 12674.36 | P%Cft | Rs. | 34728 | /- |
|--------|-----|---|-----|----------|-------|-----|-------|----|

6 .Making & Fixing steel grated doors with 1/16" thick sheeting i/c angle iron from 2"x2" 3/8" sq bars 4" center to center with locking arrangement (GSI No.24 P/91).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 28.00 | Sft | @ | Rs. | 726.72 | P.Sft | Rs. | 20348 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

7. Small iron work such as gusset plate knees bends, stirrups rings etc including cutting, drilling, reverting, handling, assembling and fixing but excluding in position (GSI No.01 P/90).

| | | | | | | | | |
|------|-----|---|-----|---------|-------|-----|-------|----|
| 1.77 | Cwt | @ | Rs. | 6420.61 | P.Sft | Rs. | 11364 | /- |
|------|-----|---|-----|---------|-------|-----|-------|----|

8. Supplying and fixing in position iron steel grill of 3/4"x1/4" size flat iron of approved design i/c painting 3 coats etc complete (weight not to be less than 3.7 Lbs/sq ft finished grill (GSI No.26 P/93).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|------|----|
| 36.00 | Sft | @ | Rs. | 180.50 | P.Sft | Rs. | 6498 | /- |
|-------|-----|---|-----|--------|-------|-----|------|----|

9. Cement Plaster 1:4 upto 12" height 1/2 thick (GSI No.10(b)P/51).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|-------|----|
| 550.00 | Sft | @ | Rs. | 2283.93 | P%Sft | Rs. | 12562 | /- |
|--------|-----|---|-----|---------|-------|-----|-------|----|

10. Cement pointing struck joints on wall (b) ratio 1:3 (GSI No.19(b)P/53).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|------|----|
| 437.00 | Sft | @ | Rs. | 1213.58 | P%Sft | Rs. | 5303 | /- |
|--------|-----|---|-----|---------|-------|-----|------|----|

11. Reinforcement cement concrete work including all labours and made except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) (a) R.C work in roof slab, beams columns rafts lintels and other structural members laid in situ or pre cast laid in position complete in all respect (i) (Ratio 1:2:4) 90lbs cement 2 cft sand 4cft shingle 1/8" to 1/4" gauge (GSI No.6(a)(i)P/19).

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 83.00 | Cft | @ | Rs. | 337.00 | P.Cft | Rs. | 27971 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

12. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints & fastening i/c cost of binding wire (also includes removal rust from bars) (GSI: No: 7(ii) P-19)

| | | | | | | | | |
|-------|-----|---|-----|---------|-------|-----|-------|----|
| 4.078 | Cwt | @ | Rs. | 5001.70 | P.Cwt | Rs. | 20397 | /- |
|-------|-----|---|-----|---------|-------|-----|-------|----|

13. Providing and laying 2" thick topping cement concrete (1:2:4) including surface finishing and dividing into panells (GSI No.16(d)P/41).

a) 2" thick topping.

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|------|----|
| 120.00 | Sft | @ | Rs. | 3275.50 | P%Sft | Rs. | 3931 | /- |
|--------|-----|---|-----|---------|-------|-----|------|----|

b) 1-1/2" thick topping.

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|------|----|
| 239.00 | Sft | @ | Rs. | 2548.29 | P%Sft | Rs. | 6090 | /- |
|--------|-----|---|-----|---------|-------|-----|------|----|

14. White wash 02 coat (GSI No.26(b) P/50)

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|-----|------|----|
| 633.00 | Sft | @ | Rs. | 425.84 | P%Sft | Rs. | 2696 | /- |
|--------|-----|---|-----|--------|-------|-----|------|----|

15. Clour wash 2 coats (GSI No.25(b) P/53)

| | | | | | | | | |
|--------|-----|---|-----|--------|-------|-----|------|----|
| 987.00 | Sft | @ | Rs. | 859.90 | P%Sft | Rs. | 8487 | /- |
|--------|-----|---|-----|--------|-------|-----|------|----|

16. Painting new surface preparing surface and painting doors windows of any type i/c edge (GSI No 41 P/62).

| | | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|-----------------|-------------------|-----------|
| 128.00 | Sft | @ | Rs. | 2116.41 | P%Sft | Rs. | 2709 | /- | |
| | | | | | | | Total'D' | Rs. 192175 | /- |

GROUP 'E' RENOVATION WORK

1. Pucca brick work in foundation and plinth in cement sand motor (1:6) (GSI No.4(i)(e) -P-6).

| | | | | | | | | |
|--------|-----|---|-----|----------|-------|-----|--------|----|
| 890.00 | Cft | @ | Rs. | 11948.36 | P%Cft | Rs. | 106340 | /- |
|--------|-----|---|-----|----------|-------|-----|--------|----|

2. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio (GSI: 5,P-16)

a) Ratio 1:2:4

| | | | | | | | | |
|--------|-----|---|-----|----------|-------|-----|--------|----|
| 990.00 | Cft | @ | Rs. | 14429.25 | P%Cft | Rs. | 142850 | /- |
|--------|-----|---|-----|----------|-------|-----|--------|----|

b) Ratio 1:3:6

| | | | | | | | | |
|---------|-----|---|-----|----------|-------|-----|--------|----|
| 3615.00 | Cft | @ | Rs. | 12595.00 | P%Cft | Rs. | 455309 | /- |
|---------|-----|---|-----|----------|-------|-----|--------|----|

c) Ratio 1:4:8

| | | | | | | | | |
|---------|-----|---|-----|----------|-------|-----|--------|----|
| 1037.00 | Cft | @ | Rs. | 11288.75 | P%Cft | Rs. | 117064 | /- |
|---------|-----|---|-----|----------|-------|-----|--------|----|

3. Brick lining 9"x4-1/2x3" in cement sand mortor (1:6) (GSI No.7 (c) P/25).

a) **BED**

| | | | | | | | | |
|---------|-----|---|-----|----------|-------|-----|--------|----|
| 3477.00 | Cft | @ | Rs. | 12519.07 | P%Cft | Rs. | 435288 | /- |
|---------|-----|---|-----|----------|-------|-----|--------|----|

b) **SLOPE**

| | | | | | | | | |
|---------|-----|---|-----|----------|-------|-----|--------|----|
| 2112.00 | Cft | @ | Rs. | 13163.40 | P%Cft | Rs. | 278011 | /- |
|---------|-----|---|-----|----------|-------|-----|--------|----|

4. Cement Plaster 1:4 upto 12" height 1/2 thick (GSI No.11(a)P/57).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|------|----|
| 100.00 | Sft | @ | Rs. | 2283.93 | P%Sft | Rs. | 2284 | /- |
|--------|-----|---|-----|---------|-------|-----|------|----|

5. Cement pointing struck joints on wall (b) ratio 1:3 (GSI No.19(b)P/53).

| | | | | | | | | |
|---------|-----|---|-----|---------|-------|-----|-------|----|
| 7918.00 | Sft | @ | Rs. | 1213.58 | P%Sft | Rs. | 96091 | /- |
|---------|-----|---|-----|---------|-------|-----|-------|----|

6. Barrow pit excavation undressed lead upto 100ft in ordinary soil. (G.S.I.NO: 3 P/ 1)

| | | | | | | | | |
|----------|-----|---|-----|---------|--------|-----|--------|----|
| 72000.00 | Cft | @ | Rs. | 2117.50 | P%oCft | Rs. | 152460 | /- |
|----------|-----|---|-----|---------|--------|-----|--------|----|

7. Earth work compaction (Soft, Ordinary, Or hard Soil) laying earth in 6" layers including watering for Compaction etc complete. (G.S.I.NO: 2 P/ 3)

| | | | | | | | | |
|----------|-----|---|-----|--------|--------|-----|-------|----|
| 72000.00 | Cft | @ | Rs. | 354.00 | P%oCft | Rs. | 25488 | /- |
|----------|-----|---|-----|--------|--------|-----|-------|----|

8. Cartage of 100 Cft / Stone of all material like stone aggregate etc lead (1 Miles)

| | | | | | | | | |
|----------|-----|---|-----|--------|-------|-----|--------|----|
| 72000.00 | Cft | @ | Rs. | 407.00 | P%Cft | Rs. | 293040 | /- |
|----------|-----|---|-----|--------|-------|-----|--------|----|

9. C.C brick or stone ballast 1 1/2" to 2" guage ratio 1:4:8 (GSI No.4(b) P/17).

| | | | | | | | | |
|--------|-----|---|-----|---------|-------|-----|-------|----|
| 990.00 | Cft | @ | Rs. | 9416.28 | P%Cft | Rs. | 93221 | /- |
|--------|-----|---|-----|---------|-------|-----|-------|----|

| | | | | | | | | | |
|--|--|--|--|--|--|--|-----------------|--------------------|-----------|
| | | | | | | | Total'E' | Rs. 2197447 | /- |
|--|--|--|--|--|--|--|-----------------|--------------------|-----------|

GROUP 'F' PUMPING MACHINERY

1. Supplying and installing in position i/c transportation to site of work at Water Supply Scheme Mohsin Raza Farm A.C Electric Pumping Set 2950 RPM (Siemens) made 10 BHP Electric motor 3 phase 50 cycles 400/420 volts with centrifugal pump type ETA 50-160) size 2-1/2"x2" mounted on common steel frame or base plate capable of discharging 165 gallons /minute against a head of 100 ft i/c installation of pumping set on c.c foundation ratio (1:2:4) and ratio (1:4:8) with ballast with M.S nuts and bolts of dia to be embedded in c.c foundation i/c providing and fixing on prepared board A.C cycles 3 Phase 12/25 ampere trips rating push button type size delta starter complete with no volts and over head release and required i/c providing and fixing on prepared board iron (clad) triple pole and neutral switch fuse with rewire able type fuse link carried 500 volts grade 30 ampere providing and fixing volts meter 0.500 volts and ampere meter 0.50 ampere installed on metaled board i/c providing and fixing metalled board to accommodated main or sub main control switch recessed in the wall size 3"x2"x1/2" i/c providing phase infivsyion bulbs with holder and providing internal electric wiring for mains with 12A plate size (1 1/2x2) G.I Plate carried and to ground at depth 7ft for base plate and testing of the pumping set against the required head for 72 hours etc complete (For intake works).

10 BHP Electric Motor

| | | | | | | | | |
|------|------|---|-----|-----------|-------|-----|--------|----|
| 2.00 | Sets | @ | Rs. | 293370.00 | P.Set | Rs. | 586740 | /- |
|------|------|---|-----|-----------|-------|-----|--------|----|

2. Manufacturing and Installing M.S pipe made out of M.S sheet of 3/16" thick cutting folding proper curvature and shape i/c welding etc complete (R.A based on schedule).

3"dia Pipe

| | | | | | | | | |
|-------|-----|---|-----|--------|-------|-----|-------|----|
| 62.00 | Rft | @ | Rs. | 506.60 | P.Rft | Rs. | 31409 | /- |
|-------|-----|---|-----|--------|-------|-----|-------|----|

3. Manufacturing and installing with welding M.S flanged made out of M.S sheet 4/8" thick i/c cutting drilling holes etc complete(R.A based on schedule).

For 3" dia

| | | | | | | | | |
|-------|-----|---|-----|--------|------|-----|------|----|
| 18.00 | Nos | @ | Rs. | 500.89 | Each | Rs. | 9016 | /- |
|-------|-----|---|-----|--------|------|-----|------|----|

4. C.I Sluice valve heavy pattern (Test pressure 21.0 kg/sqmm or 300lb/sq inch)(Imported)(SMI No.2(b) P/11).

For 3" dia

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|------|----|
| 2.00 | Nos | @ | Rs. | 4290.00 | Each | Rs. | 8580 | /- |
|------|-----|---|-----|---------|------|-----|------|----|

5. Reflex valve heavy pattern (Test pressure 21 kg/sq cm or 300 lbs/sq.inch (imported) (SMI No.6(a) P/12).

For 3" dia

| | | | | | | | | |
|------|-----|---|-----|---------|------|-----|------|----|
| 2.00 | Nos | @ | Rs. | 1543.75 | Each | Rs. | 3088 | /- |
|------|-----|---|-----|---------|------|-----|------|----|

6. Foot valve heavy pattern with cone type gate (Imported) (SMI No.4(a) P/12).

For 3" dia

| | | | | | | | | |
|------|-----|---|-----|--------|------|-----|------|----|
| 2.00 | Nos | @ | Rs. | 731.25 | Each | Rs. | 1463 | /- |
|------|-----|---|-----|--------|------|-----|------|----|

7. C.I Tappers flat bottomed or central tapped flanged end with holes i/c turning and facing of flanged for all sizes (SMI No.9 P/12).

| | | | | | | | | |
|-------|----|---|-----|--------|----|-----|------|----|
| 21.00 | Kg | @ | Rs. | 120.00 | Kg | Rs. | 2520 | /- |
|-------|----|---|-----|--------|----|-----|------|----|

8.C.I bend with flanged and with holes i/c tunning and facing of flanges for all size(SMNo.8P-11).

33.40 Kg @ Rs. 120.00 Kg Rs. 4008 /-

9.C.I Tees with flanged ends with holes i/c tunning and facing of flanges for all size(SMNo.12P-12).

9.07 Kg @ Rs. 120.00 Kg Rs. 1088 /-

10..Jointing C.I/M.S flanged pipe and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts ,bolts with washers etc and other tools required for jointing and testing the joint in the special pressure etc complete(PHSI No.1P/40).

b) For 3" Dia

15.00 Joint @ Rs. 499.00 P.Joint Rs. 7485 /-

11. Painting new surface:- preparing of filed framing skirting pipes gutters similar linear work not exceeding 4"inch (GSI No 4 P/69).

62.00 Rft @ Rs. 686.95 P:%Rft Rs. 426 /-
Total'F' Rs. 655823 /-

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|---------------------|----------------|----------------|-----------|
| 1 | Feeding Channel | 750838/- | -- | 750838/- |
| 2 | Distribution System | 1519939/- | -- | 1519939/- |
| 3 | Compound Wall | 1026351/- | -- | 1026351/- |
| 4 | Pump House (10x12) | 192175/- | -- | 192175/- |
| 5 | Renovation work | 2197447/- | -- | 2197447/- |
| 6 | Pumping Machinery | 69083/- | 586740/- | 655823/- |
| | Total | 5755833/- | 586740/- | 6342573/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-


Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH




STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./225 Dated 28-12-2017

Name of Work:- REHABILITATION OF WATER SUPPLY SCHEME
HAJI MOHAMMAD BUX NAREJO DISTRICT
MIRPURKHAS.

Issued to M/s _____ Government Contractor
D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF WATER SUPPLY SCHEME HAJI MOHAMMAD BUX NAREJO DISTRICT MIRPURKHAS. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 2.100 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2:00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost) Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY

**(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES**

**NAME OF WORK:- RE-HABILITATION OF RURAL WATER SUPPLY SCHEME HAJI
MOHAMMAD BUX NAREJO DISTRICT MIRPURKHAS.**

| S. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|--------------|----------------------|
| <i>1) Repair of Storage tank</i> | | | | | |
| | 1) Earth work excavation in ashes, sand soft soil or silt clearance undressed lead upto 50'ft (GSI:No: 2 P-1) | | | | |
| | Qty: 15660.0 | Cft | @ Rs. 1663.75 | P% o Cft | Rs. 26054.00 |
| | 2) Extra for Wet earth work (GSI:No: 15 P-3) | | | | |
| | Qty: 15660.0 | Cft | @ Rs. 1058.75 | P% o Cft | Rs. 16580.00 |
| | 3) Extra for slush or daldal i/c dewatering (GSI:No: 16 P-02) | | | | |
| | Qty: 15660.0 | Cft | @ Rs. 2420.00 | P% o Cft | Rs. 37897.00 |
| | 4) Re-handling of earth work upto lead 50 ft (GSI:No: 16 P-02) | | | | |
| | Qty: 14094.0 | Cft | @ Rs. 1058.75 | P% o Cft | Rs. 14922.00 |
| | 5) Extra for every 50 ft additional lead or part therof (GSI NO. 8 P-02) | | | | |
| | Qty: 14094.0 | Cft | @ Rs. 1914.82 | P% o Cft | Rs. 26987.00 |
| | 6) Pacca bricks work in foundation & plinth in cement sand mortar (1:4) (GSI: 4 P-20) | | | | |
| | Qty: 870.0 | Cft | @ Rs. 11948.36 | P% Cft | Rs. 103951.00 |
| | 7). Cement concrete plain i/c placing compacting finishing and curing complete (i/c screening washing of stone aggregate w/o shuttering (1:2:4)(GSI: 5,(i)P/-18). | | | | |
| | Qty: 128.00 | Cft | @ Rs. 12595.00 | P% Cft | Rs. 16122.00 |
| | 8) Cement plaster (1:4) upto 12'ft height 1/2"thick (GSI No. 11 P-57) | | | | |
| | Qty: 1200.0 | Sft | @ Rs. 2206.60 | P% Sft | Rs. 26479.00 |
| | 9) Cement plaster (1:4) upto 12'ft height 1/2"thick (GSI No. 11 P-57) | | | | |
| | Qty: 1200.0 | Sft | @ Rs. 2197.52 | P% Sft | Rs. 26370.00 |
| | 10) Cement pointing flush on stone work (raised) (1:3) (GSI : 5 (c) P-76) | | | | |
| | Qty: 1819.0 | Sft | @ Rs. 1213.58 | P% Sft | Rs. 22075.00 |
| | | | | Total | Rs. 317437.00 |

2) Repair of Pump House & Sump Well

1) Dismantalling Cement concrete plain 1.2.4 (GSI: No. 201 ,P-10)

| | | | | | | | |
|------|------|-----|-------|---------|-----------|-----|---------|
| Qty: | 88.0 | Cft | @ Rs. | 3327.50 | P% Cft | Rs. | 2928.00 |
|------|------|-----|-------|---------|-----------|-----|---------|

2) R.C.C work i/c Labour & material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also i/c all kinds of forms mould lifting shuttering, curing rendering & washing of shingle (a) RCC work in roof slab beam columns rafts lintels and other structure member laid in situ precast laid in position complete in all respect ratio 1:2:4 90 lbs cement 2 Cft sand 4 Cft shingle 1/8" to 1/4 " gauge.

| | | | | | | | |
|------|------|-----|-------|--------|--------|-----|----------|
| Qty: | 88.0 | Cft | @ Rs. | 337.00 | P. Cft | Rs. | 29656.00 |
|------|------|-----|-------|--------|--------|-----|----------|

3) Fabrication of mild steel reinforcement for c.c i/c cutting bending laying in position making joints and fastening i/c cost of binding.wire also includes removal or rust from bars.

| | | | | | | | |
|------|-------|-----|-------|---------|-------|-----|----------|
| Qty: | 3.535 | Cwt | @ Rs. | 5001.70 | P.Cwt | Rs. | 17681.00 |
|------|-------|-----|-------|---------|-------|-----|----------|

4) Cement plaster (1:6) upto 12'ft height 1/2"thick (GSI No. 11 P-57)

| | | | | | | | |
|------|-------|-----|-------|---------|-----------|-----|----------|
| Qty: | 578.0 | Sft | @ Rs. | 2206.60 | P% Sft | Rs. | 12754.00 |
|------|-------|-----|-------|---------|-----------|-----|----------|

5) Cement plaster (1:4) upto 12'ft height 3/8"thick (GSI No. 11 P-57)

| | | | | | | | |
|------|-------|-----|-------|---------|-----------|-----|----------|
| Qty: | 578.0 | Sft | @ Rs. | 2197.52 | P% Sft | Rs. | 12702.00 |
|------|-------|-----|-------|---------|-----------|-----|----------|

6) Cement pointing flush on stone work (raised) (1:3) (GSI : 5 (c) P-76)

| | | | | | | | |
|------|-------|-----|-------|---------|-----------|-----|---------|
| Qty: | 473.0 | Sft | @ Rs. | 1213.58 | P% Sft | Rs. | 5740.00 |
|------|-------|-----|-------|---------|-----------|-----|---------|

7) Providing laying 1"thick topping cement concrete (1:2:4) i/c surface finishing & dividing into pannels © 2"thick (GSI : 16 (c) P-42)

| | | | | | | | |
|------|-------|-----|-------|---------|-----------|-----|----------|
| Qty: | 329.0 | Sft | @ Rs. | 3275.50 | P% Sft | Rs. | 10776.00 |
|------|-------|-----|-------|---------|-----------|-----|----------|

8) White washing three coats (GSI No. 26 P-54)

| | | | | | | | |
|------|--------|-----|-------|--------|--------|-----|---------|
| Qty: | 1142.0 | Sft | @ Rs. | 425.84 | P% Sft | Rs. | 4863.00 |
|------|--------|-----|-------|--------|--------|-----|---------|

9) Colour washing three coats (GSI No:25 P-54).

| | | | | | | | |
|------|-------|-----|-------|-------|--------|-----|---------|
| Qty: | 935.0 | Sft | @ Rs. | 859.9 | P% Sft | Rs. | 8040.00 |
|------|-------|-----|-------|-------|--------|-----|---------|

10) Painting new surface preparing surface and painting of doors and windows any type. (i/c edges) three coats.(GSI.NO.5 c, P/70)

| | | | | | | | |
|------|-------|-----|-------|---------|--------|-----|---------|
| Qty: | 104.0 | Sft | @ Rs. | 1160.06 | P% Sft | Rs. | 1206.00 |
|------|-------|-----|-------|---------|--------|-----|---------|

| | | |
|--------------|------------|------------------|
| Total | Rs. | 106346.00 |
|--------------|------------|------------------|

3) Repair of Pumping Machinery.

1) Repair of KSB pump 50-16 i/c replacement of bearing gland etc complete

| | | | | | | | |
|------|-----|-----|-------|---------|------|-----|----------|
| Qty: | 2.0 | No: | @ Rs. | 10000.0 | Each | Rs. | 20000.00 |
|------|-----|-----|-------|---------|------|-----|----------|

2) Rewinding of A.C Electric motor 10 BHP cemine made 2900 RPM inculding out the burent motor it fixied position re-fitting the same to it orginal position after rewinding testing to the full load 72 hours etc complete (GSINo 97 P-109)

| | | | | | | | |
|------|-----|-----|-------|---------|------|-----|----------|
| Qty: | 2.0 | Job | @ Rs. | 10141.0 | Each | Rs. | 20282.00 |
|------|-----|-----|-------|---------|------|-----|----------|

3) Providing & fixing (Siemen) Automatic motor control unit consists of circuit breaker contractor ,over load protection under/ever voltage protection phase failure protectin ,Ammeter with current transformer,voltmeters with potential transformer autmatic star-Delta change over switch control and power caple (3-19/1.53) 19/064 indiacanting lights and all these components are fixed in a metallic dust and emoke Prof box

| | | | | | | |
|-----|----|-------|----------|-------|-----|----------|
| 1.0 | No | @ Rs. | 46000.00 | P.Rft | Rs. | 46000.00 |
|-----|----|-------|----------|-------|-----|----------|

4) Repair of transformer 25 KVA and repair of 3.0 coils i/c changing of oil

| | | | | | | |
|-----|-----|-------|----------|-------|-----|----------|
| 1.0 | Job | @ Rs. | 40000.00 | P.Job | Rs. | 40000.00 |
|-----|-----|-------|----------|-------|-----|----------|

5) Manufacturing and installing 6 dia M.S pipe made out of M.S sheet of 3/16 thick i/c cutting drilling holes and welding of flange with M,S pipe etc

| | | | | | | | |
|------------------|-------|-----|-------|--------|-----|-----|---------|
| Suction 3 dia | 18.00 | Rft | @ Rs. | 385.89 | Rft | Rs. | 6946.00 |
|------------------|-------|-----|-------|--------|-----|-----|---------|

| | | | | | | | |
|--------------------|------|-----|-------|--------|-----|-----|---------|
| Deliver y 4 dia | 9.00 | Rft | @ Rs. | 506.60 | Rft | Rs. | 4559.00 |
|--------------------|------|-----|-------|--------|-----|-----|---------|

6) Manufacturing supplying M.S flange of different dia made out of M.S sheet of 3/8 thick i/c cutting drilling holes and welding of flange with M,S pipe etc

| | | | | | | |
|------|-----|-------|--------|-----|-----|---------|
| 4.00 | Rft | @ Rs. | 500.89 | Rft | Rs. | 2004.00 |
|------|-----|-------|--------|-----|-----|---------|

| | | | | | | |
|------|-----|-------|--------|-----|-----|---------|
| 2.00 | Rft | @ Rs. | 596.75 | Rft | Rs. | 1194.00 |
|------|-----|-------|--------|-----|-----|---------|

7) C.I Sluice Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/) M.R)

| | | | | | | | |
|---------------|------|-----|-------|---------|------|-----|---------|
| 3 dia Qty: | 1.00 | Nos | @ Rs. | 4290.00 | Each | Rs. | 4290.00 |
|---------------|------|-----|-------|---------|------|-----|---------|

8) C.I Reflex Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/ 10) M.R)

| | | | | | | | |
|---------------|------|-----|-------|---------|------|-----|---------|
| 3 dia Qty: | 2.00 | Nos | @ Rs. | 1543.75 | Each | Rs. | 3088.00 |
|---------------|------|-----|-------|---------|------|-----|---------|

9) C.I Foot Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/ 10) M.R)

| | | | | | | | |
|---------------|------|-----|-------|--------|------|-----|---------|
| 3 dia Qty: | 2.00 | Nos | @ Rs. | 731.25 | Each | Rs. | 1463.00 |
|---------------|------|-----|-------|--------|------|-----|---------|

10) C.I Short Piece (SOM I No. 9 P-15).

| | | | | | | | |
|-------|------|----|-------|--------|------|-----|--------|
| 4 dia | 1.00 | No | @ Rs. | 787.50 | Each | Rs. | 788.00 |
| Qty: | | | | | | | |

11) Jointing C.I/M.S flanged pipe & special flanged & inside trenches i/c supplying rubber packing of required thickness nuts & bolts with washers etc & other tools required for jointing to the specified pressure etc complete. (PHSLNO.1, P/35)

| | | | | | | | |
|-------|------|--------|-------|--------|---------|-----|---------|
| 3 dia | 9.00 | Joints | @ Rs. | 499.00 | P.Jiont | Rs. | 4491.00 |
| Qty: | | | | | | | |
| 4 dia | 4.00 | Joints | @ Rs. | 513.00 | P.Jiont | Rs. | 2052.00 |
| Qty: | | | | | | | |

12) Painting new surface and painting of filled framing skirting pipes gutters similar linear work not exceeding 4 inch (GSI.NO.4 P/69)

| | | | | | | | |
|------|------|-----|-------|--------|-------|-----|--------|
| Qty: | 62.0 | Rft | @ Rs. | 686.45 | P.Rft | Rs. | 426.00 |
|------|------|-----|-------|--------|-------|-----|--------|

| | | |
|-------|-----|------------------|
| Total | Rs. | 157583.00 |
|-------|-----|------------------|

4) Repair of Compound Wall.

1) Dismantling Cement concreetplain 1.2.4 (GSI: No. 201 ,P-10)

| | | | | | | | |
|------|-------|-----|-------|---------|-----------|-----|---------|
| Qty: | 370.0 | Cft | @ Rs. | 1285.63 | P% Cft | Rs. | 4757.00 |
|------|-------|-----|-------|---------|-----------|-----|---------|

2) Pacca brick work other than building i/c striking of joints upto 20'ft height in Ratio (1:4) (GSI: No: 5(c) P/-24)

| | | | | | | | |
|------|--------|-----|-------|----------|-----------|-----|-----------|
| Qty: | 1568.0 | Cft | @ Rs. | 12346.65 | P% Cft | Rs. | 193595.00 |
|------|--------|-----|-------|----------|-----------|-----|-----------|

3) R.C.C work i/c Labour & material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also i/c all kinds of forms mould lifting shuttering, curing rendering & washing of shingle (a) RCC work in roof slab beam columns rafts lintels and other structure member laid in situ precast laid in position complete in all respect ratio 1:2:4 90 lbs cement 2 Cft sand 4 Cft shingle 1/8" to 1/4 " gauge.

| | | | | | | | |
|------|-------|-----|-------|--------|--------|-----|-----------|
| Qty: | 981.0 | Cft | @ Rs. | 337.00 | P. Cft | Rs. | 330597.00 |
|------|-------|-----|-------|--------|--------|-----|-----------|

4) Fabrication of mild steel reinforcement for c.c i/c cutting bending laying in position making joints and fastening i/c cost of binding.wire also includes removal or rust from bars.

| | | | | | | | |
|------|-------|-----|-------|---------|--------|-----|-----------|
| Qty: | 39.41 | Cft | @ Rs. | 5001.70 | P. Cft | Rs. | 197117.00 |
|------|-------|-----|-------|---------|--------|-----|-----------|

5) Cement plaster (1:6) upto 12'ft height 1/2"thick (GSI No. 11 P-57)

| | | | | | | | |
|------|--------|-----|-------|---------|-----------|-----|----------|
| Qty: | 4115.0 | Sft | @ Rs. | 2206.60 | P% Sft | Rs. | 90802.00 |
|------|--------|-----|-------|---------|-----------|-----|----------|

| | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|-------|---------|--------------|------------|-------------------|
| 6) Cement plaster (1:4) upto 12'ft height 3/8"thick (GSI No. 11 P-57) | Qty: 4115.0 | Sft | @ Rs. | 2197.52 | P% Sft | Rs. | 90428.00 |
| 7) Cement pointing struck joints on wall (b(1:3) (GSI : 20 (b) P-58) | Qty: 4000.0 | Sft | @ Rs. | 1213.58 | P% Sft | Rs. | 48543.00 |
| 8) Making & fixing steel grated door with 1/16" thick sheeting i/c angle iron frame 2"x2"x3/8" & 3/4"sq:bars 4"centre to centre with locking arrangement(GSI No:24, P-92). | Qty: 50.0 | Sft | @ Rs. | 726.72 | P Sft | Rs. | 36336.00 |
| 9) White washing two coats (GSI No. 26 P-54) | Qty: 4187.0 | Sft | @ Rs. | 425.84 | P% Sft | Rs. | 17830.00 |
| 10) Colour washing three coats (GSI No:25 P-54). | Qty: 8187.0 | Sft | @ Rs. | 859.9 | P% Sft | Rs. | 70400.00 |
| 11) Painting new surface preparing surface and painting of doors and windows any type. (i/c edges) three coats.(GSI.NO.5 c, P/70) | Qty: 100.0 | Sft | @ Rs. | 1489.68 | P% Sft | Rs. | 1490.00 |
| | | | | | Total | Rs. | 1081895.00 |

0

5) Distribution System.

1) Providing P.V.C pipe of class 'B' (Equivalent make) fixing in trench i/c cutting, fitting and jointing with Z joint with one rubber rings i/c testing with water to a head of 61 meter or 200 ft.

| | | | | | | | |
|-------|--------|-----|-------|--------|--------|-----|----------|
| 6"dia | 300.00 | Rft | @ Rs. | 262.00 | P. Rft | Rs. | 78600.00 |
| Qty: | | | | | | | |
| 4"dia | 300.00 | Rft | @ Rs. | 137.00 | P. Rft | Rs. | 41100.00 |
| Qty: | | | | | | | |
| 3"dia | 600.00 | Rft | @ Rs. | 90.00 | P. Rft | Rs. | 54000.00 |
| Qty: | | | | | | | |

2) Excavation for pipe lines in trenches & pits in soft i/c trimming and dressing side to true alignment & shape leveling of beds of trenches to correct level and grade, cutting joint holes & disposal of surplus earth within in one chain as directed by Engineer In charge. Providing fence guards lights flegs and temporary crossing for none vehicular traffic where ever required lift upto 5' ft (1.52m) & lead up to one chain (30.50m) (PHSI No. A P-46).

| | | | | | | | |
|------|---------|-----|-------|---------|---------|-----|----------|
| Qty: | 7088.00 | Cft | @ Rs. | 3600.00 | P%o Cft | Rs. | 25517.00 |
|------|---------|-----|-------|---------|---------|-----|----------|

3) Cost iron Specials for A.C pressuer pipe standered wet for ACILB class (S.M.I No. 13 P-12)

4) C.I Sluice Valve heavy patterns (Test Pressure 21.0 Kg/ sq.cm .or 300 lbs/sq .inches (important) (SMSINo:2,P-9)

| | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|---------|---------|-----|----------|
| Qty: 6 dia | 2.0 | Nos | @ Rs. | 9360.00 | Each | Rs. | 18720.00 |
| Qty: 4 dia | 2.0 | Nos | @ Rs. | 5460.00 | Each | Rs. | 10920.00 |
| i) Tail Pieces 6 dia | | | | | | | |
| Qty: | 4.0 | Nos | @ Rs. | 618.75 | Each | Rs. | 2475.00 |
| Qty: 4 dia | 4.0 | Nos | @ Rs. | 487.50 | Each | Rs. | 1950.00 |
| ii) Bend 90 6 dia | | | | | | | |
| Qty: | 3.0 | No | @ Rs. | 2212.50 | Each | Rs. | 6638.00 |
| Qty: 4 dia | 5.0 | No | @ Rs. | 893.75 | Each | Rs. | 4469.00 |
| Qty: 3 dia | 10.0 | No | @ Rs. | 650.00 | Each | Rs. | 6500.00 |
| iii) Bend 45 6 dia | | | | | | | |
| Qty: | 1.0 | No | @ Rs. | 1787.50 | Each | Rs. | 1788.00 |
| Qty: 4 dia | 2.0 | No | @ Rs. | 731.25 | Each | Rs. | 1463.00 |
| Qty: 3 dia | 2.0 | No | @ Rs. | 568.75 | Each | Rs. | 1138.00 |
| iv) Tee (Equal) 6 dia | | | | | | | |
| Qty: | 2.0 | No | @ Rs. | 1950.00 | Each | Rs. | 3900.00 |
| Qty: 4 dia | 4.0 | No | @ Rs. | 1375.00 | Each | Rs. | 5500.00 |
| Qty: 3 dia | 7.0 | No | @ Rs. | 968.75 | Each | Rs. | 6781.00 |
| v) Un/Eequal 6 dia | | | | | | | |
| Qty: | 3.0 | No | @ Rs. | 1375.00 | Each | Rs. | 4125.00 |
| vi) Un/Eequal 4 dia | | | | | | | |
| Qty: | 5.0 | No | @ Rs. | 956.25 | Each | Rs. | 4781.00 |
| vii) Reducer 6x4 | | | | | | | |
| Qty: | 2.0 | Nos | @ Rs. | 893.75 | Each | Rs. | 1788.00 |
| Qty: 4 x3 | 4.0 | Nos | @ Rs. | 568.75 | Each | Rs. | 2275.00 |
| viii) C.I. Dead Ends 3 dia | | | | | | | |
| Qty: | 8.0 | Nos | @ Rs. | 368.75 | Each | Rs. | 2950.00 |
| 5) Making Joints to PVC specials fitting for laying of specials & cost of solvent cement of required dia meter & testing the joints along with PVC pipe line "B" "C" & "D" desire to the specified pressure & making good to all leaky joints etc complete(PHSI: 2,P-41) | | | | | | | |
| Qty: 6 dia | 9.0 | Joint | @ Rs. | 96.00 | P.Joint | Rs. | 864.00 |
| Qty: 4 | 29.0 | Joint | @ Rs. | 70.00 | P.Joint | Rs. | 2030.00 |

| | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|---------|--------------|------------|------------------|
| dia | Qty: 3 | 14.0 | Joint | @ Rs. | 59.00 | Each | Rs. | 826.00 |
| dia | Qty: 6 | 4.0 | Joint | @ Rs. | 938.00 | P.Joint | Rs. | 3752.00 |
| dia | Qty: 4 | 4.0 | Joint | @ Rs. | 513.00 | P.Joint | Rs. | 2052.00 |
| 6) Joints C.I/M.S flanged pipe & speacials flanged & inside trenches the i/c supplying rubber packing of the required thick ness nunt & bolt with washers etc & other tools required for jointing & testing the joint to the specified pressure ect complete (PHS1,P-40) | | | | | | | | |
| 7) Refilling the excavated stuff trenches in 6" thick layers i/c watering ramming to full compaction etc complete (PHSI No. 24 P-53). | | | | | | | | |
| | Qty: | 6379.0 | Cft | @ Rs. | 2760.00 | P%o | Rs. | 17606.00 |
| | | | | | | Cft | | |
| | | | | | | Total | Rs. | 314508.00 |

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|----------------------------------|----------------|----------------|-----------|
| 1 | Repair of Storage Tank | 317437/- | -- | 317437/- |
| 2 | Repair of Pump House and S/ Well | 106346/- | -- | 106346/- |
| 3 | Repair of Pumping Machinery | 97583/- | 60000/- | 1026351/- |
| 4 | Repair of Compound Wall | 1081895/- | -- | 1081895/- |
| 5 | Distribution System | 314508/- | -- | 314508/- |
| | Total | 1917769/- | 60000/- | 1977769/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-


Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


 PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- **REHABILITATION OF WATER SUPPLY SCHEME**
BACHAL CHANG DISTRICT MIRPURKHAS.

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-

STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF WATER SUPPLY SCHEME BACHAL CHANG DISTRICT MIRPURKHAS. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 8.9500 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1.:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2:00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY

**(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES**

**NAME OF WORK:- RE-HABILITATION OF RURAL WATER SUPPLY SCHEME BACHAL
CHANG DISTRICT MIRPURKHAS.**

| S. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|--------------|----------------------|
| <u>Part (A) Feeding Channel</u> | | | | | |
| | 1) Excavation in foundation of building bridges & other structure including dagbelling dressing refilling around structure with excavated earth watering & ramming Lead upto 5feet in soft soil (GSI:NO.18(b) P-04). | | | | |
| Qty: | 6563.0 | Cft | @ Rs. 3176.25 | P% o Cft | Rs. 20846.00 |
| | 2) Cement concrete brick or stone ballast 1 1/2 to 2" gauge(1:4:8) (GSI: No: 4, P-16) | | | | |
| Qty: | 1313.0 | Cft | @ Rs. 9416.28 | P% Cft | Rs. 123636.00 |
| | 3). Cement concrete plain i/c placing compacting finishing and curing complete (i/c screening washing of stone aggregate w/o shuttering (1:2:4)(GSI: 5,(i)P/-18). | | | | |
| Qty: | 178.50 | Cft | @ Rs. 14429.25 | P% Cft | Rs. 25756.00 |
| | 4) Pacca bricks work in foundation & plinth in cement sand mortar (1:4) (GSI: 4 P-20) | | | | |
| Qty: | 3938.0 | Cft | @ Rs. 11948.36 | P% Cft | Rs. 470526.00 |
| | 5) Cement plaster (1:4) upto 20'ft height 3/4"thick (GSI No. 11 P-57) | | | | |
| Qty: | 6468.0 | Sft | @ Rs. 2283.93 | P% Sft | Rs. 147725.00 |
| | | | | Total | Rs. 788489.00 |
| <u>Part (B) Renovation Work</u> | | | | | |
| | 1) Jungle Clearance & Rmoving within 100 ft (GSI:No: 4(b) P- 94) | | | | |
| Qty: | 19680.0 | Cft | @ Rs. 151.25 | P% o Cft | Rs. 2977.00 |
| | 2) Full hire charges of the pumping set per day inclusive wage of driver & assistant fuel or electric energy plat form required for placing pumps etc. at lower depth with suction & delivery pipes for pumping out water found at various depths from trench i/c cost of errection & dismantalling after completion of the job i)Hire charges of pumping set of upto 10 HP pumping out water from 10 ft deep trench.(PHSI No: 22 P-76). | | | | |
| Qty: | 30.0 | day | @ Rs. 1500.00 | P.Day | Rs. 45000.00 |

| | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|-------|----------|--------|-----|-----------|
| 3) Cement concrete brick or stone ballast 1 1/2 to 2" gauge(1:4:8) (GSI: No: 4, P-16) | | | | | | | |
| Qty: | 792.0 | Cft | @ Rs. | 9416.28 | P% | Rs. | 74577.00 |
| 4). Cement concrete plain i/c placing compacting finishing and curing complete (i/c screening washing of stone aggregate w/o shuttering (1:2:4)(GSI: 5,(i)P/-18). | | | | | | | |
| Ratio | 2588.40 | Cft | @ Rs. | 11288.75 | P% | Rs. | 292198.00 |
| (| | | | | Cft | | |
| 1.4.8) | | | | | | | |
| Ratio | 5143.33 | Cft | @ Rs. | 12595.00 | P% | Rs. | 647802.00 |
| (| | | | | Cft | | |
| 1.3.6) | | | | | | | |
| Ratio | 792.00 | Cft | @ Rs. | 14429.25 | P% | Rs. | 114280.00 |
| (| | | | | Cft | | |
| 1.2.4) | | | | | | | |
| 5) Pacca bricks work in foundation & plinth in cement sand mortar (1:4) (GSI: 4 P-20) | | | | | | | |
| Qty: | 1641.0 | Cft | @ Rs. | 11948.36 | P% | Rs. | 196073.00 |
| 6) Pacca bricks work other than building i-c striking of joints upto 20ft height in i.e (1.6) (GSI: 07 P-25) | | | | | | | |
| Qty: | 1410.0 | Cft | @ Rs. | 12346.65 | P% | Rs. | 174088.00 |
| 7).Brick lining (9x 4 1/2x 3 in 1.6 cement sand mortar (GSI: 08 (b) P/-94). | | | | | | | |
| Bed - | 5898.00 | Cft | @ Rs. | 12519.07 | P% | Rs. | 738375.00 |
| A | | | | | Sft | | |
| Bed - | 2525.00 | Cft | @ Rs. | 13163.40 | P% | Rs. | 332376.00 |
| B | | | | | Sft | | |
| 8) Cement pointing struck joints on wall (b(1:3) (GSI : 20 (b) P-58) | | | | | | | |
| Qty: | 10872.0 | Sft | @ Rs. | 1213.58 | P% | Rs. | 131940.00 |
| 9) Cement plaster (1:4) upto 12'ft height 3/8"thick (GSI No. 11 P-58) | | | | | | | |
| Qty: | 6413.0 | Sft | @ Rs. | 2283.93 | P% | Rs. | 146468.00 |
| 10) Making & fixing steel grated door with 1/16``thick sheeting i/c angle iron frame 2"x2"x3/8" & 3/4"sq:bars 4"centre to centre with locking arrangement(GSI No:24, P-92). | | | | | | | |
| Qty: | 72.0 | Sft | @ Rs. | 726.72 | P Sft | Rs. | 52324.00 |
| 11) R.C.C work i/c Labour & material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also i/c all kinds of forms mould lifting shuttering, curing rendering & washing of shingle (a) RCC work in roof slab beam columns rafts lintels and other structure member laid in situ precast laid in position complete in all respect ratio 1:2:4 90 lbs cement 2 Cft sand 4 Cft shingle 1/8" to 1/4 " gauge. | | | | | | | |
| Qty: | 458.59 | Cft | @ Rs. | 337.00 | P. Cft | Rs. | 154543.00 |

12) Fabrication of mild steel reinforcement for c.c i/c cutting bending laying in position making joints and fastening i/c cost of binding.wire also includes removal or rust from bars.

Qty: 18.425 Cft @ Rs. 5001.70 P. Cft Rs. 92156.00

13) White washing on walls (SINo.26 P/60)

Qty: 213.0 Sft @ Rs. 829.95 P% Sft Rs. 1768.00

14) White washing one coats (GSI No. 26 P-54)

Qty: 31549.0 Sft @ Rs. 416.63 P% Sft Rs. 131443.00

15) Preparing the surface and painting with weather coats i/c rubber rings (SINo.38 P-56)

Qty: 31549.0 Sft @ Rs. 1948.1 P% Sft Rs. 614606.00

16) Colour washing three coats (GSI No:25 P-54).

Qty: 10872.0 Sft @ Rs. 859.9 P% Sft Rs. 93488.00

17) Painting new surface preparing surface and painting of doors and windows any type. (i/c edges) two coats.(GSI.NO.5 c, P/70)

Qty: 96.0 Sft @ Rs. 674.19 P% Sft Rs. 647.00

18) Painting new surface preparing surface and painting of doors and windows any type. (i/c edges) three coats.(GSI.NO.5 c, P/70)

Qty: 144.0 Sft @ Rs. 2116.41 P% Sft Rs. 3048.00

19) Providing and laying topping cement concrete 1.2.4 i/c surface finishing & finishing & dividing into panels (GSI.NO.16 P/42)

a) 2 Thick 120.0 Sft @ Rs. 3275.50 P% Sft Rs. 3931.00

b) 1/2 Thick 239.0 Sft @ Rs. 2548.29 P% Sft Rs. 6090.00

Total Part - B Rs. 4050198.00

Part (C) Distribution System.

1) Providing Laying & fixing in trenches i/c trenches fitting jointing & testing etc complete in all respect the high density Polythlene P.E pipes (HDPE)100 for W/S comming ISO 4427/DIN8075 B.S 3580 & 3051 (PHSI No. F-1 P. 25) (PN-08)

6"dia 2000.00 Rft @ Rs. 440.00 P. Rft Rs. 880000.00

Qty: 4"dia 2400.00 Rft @ Rs. 224.00 P. Rft Rs. 537600.00

| | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|-------|----------|------------|-----|-----------|
| Qty: | | | | | | | |
| 3"dia | 4900.00 | Rft | @ Rs. | 109.00 | P. Rft | Rs. | 534100.00 |
| Qty: | | | | | | | |
| 2) Excavation for pipe lines in trenches & pits in soft i/c trimming and dressing side to true alignment & shape leveling of beds of trenches to correct level and grade, cutting joint holes & disposal of surplus earth within in one chain as directed by Engineer In charge. Providing fence guards lights flegs and temporary crossing for none vehicular traffic where ever required lift upto 5' ft (1.52m) & lead up to one chain (30.50m) (PHSI No. A P-46). | | | | | | | |
| Qty: | 51874.00 | Cft | @ Rs. | 3600.00 | P%o Cft | Rs. | 186746.00 |
| 3) Cost iron Specials for A.C pressuer pipe standered wet for ACILB class (S.M.I No. 13 P-12) | | | | | | | |
| 4) C.I Sluice Valve heavy patterns (Test Pressure 21.0 Kg/ sq.cm .or 300 lbs/sq .inches (important) (SMSINo:2,P-9) | | | | | | | |
| Qty: | 1.0 | Nos | @ Rs. | 9360.00 | Each | Rs. | 9360.00 |
| 6 dia i) Tail Pieces 6 dia | | | | | | | |
| Qty: | 2.0 | Nos | @ Rs. | 1056.25 | Each | Rs. | 2113.00 |
| ii) T/Eequal 6"x6"x6" | | | | | | | |
| Qty: | 3.0 | No | @ Rs. | 4572.00 | Each | Rs. | 13716.00 |
| iii) Tee 4"x4"x4" | | | | | | | |
| Qty: | 2.0 | No | @ Rs. | 2194.00 | Each | Rs. | 4388.00 |
| 3"x3"x3" | | | | | | | |
| Qty: | 6.0 | No | @ Rs. | 1800.00 | Each | Rs. | 10800.00 |
| iv) Un/Eequal 6"x4" | | | | | | | |
| Qty: | 1.0 | No | @ Rs. | 12144.00 | Each | Rs. | 12144.00 |
| v) Un/Eequal 4"x3 | | | | | | | |
| Qty: | 1.0 | No | @ Rs. | 5007.00 | Each | Rs. | 5007.00 |
| vi) Gibault joints (PHSI: No. 17, P- 28) | | | | | | | |
| Qty: | 4.0 | Nos | @ Rs. | 3480.00 | Each | Rs. | 13920.00 |
| 6 dia | | | | | | | |
| Qty: | 6.0 | Nos | @ Rs. | 1118.00 | Each | Rs. | 6708.00 |
| 4 dia | | | | | | | |
| Qty: | 7.0 | Nos | @ Rs. | 779.00 | Each | Rs. | 5453.00 |
| 6 dia | | | | | | | |
| vii) But Fusion (SOMI No. H , P- 20) | | | | | | | |
| Qty: | 10.0 | Nos | @ Rs. | 1000.00 | Each | Rs. | 10000.00 |
| 6 dia | | | | | | | |
| Qty: | 11.0 | Nos | @ Rs. | 1000.00 | Each | Rs. | 11000.00 |
| 4 dia | | | | | | | |
| Qty: | 12.0 | Nos | @ Rs. | 600.00 | Each | Rs. | 7200.00 |
| 3 dia | | | | | | | |

5) Joints C.I./M.S flanged pipe & specials flanged & inside trenches the i/c supplying rubber packing of the required thick ness nunt & bolt with washers etc & other tools required for jointing & testing the joint to the specified pressure ect complete (PHS1,P-40)

| | | | | | | | |
|-------|-----|-------|-------|---------|---------|-----|---------|
| 6"dia | 2.0 | Joint | @ Rs. | 2239.00 | P.Joint | Rs. | 4478.00 |
| Qty: | | | | | | | |

6) Refilling the excavated stuff trenches in 6" thick layers i/c watering ramming to full compaction etc complete (PHSI No. 24 P-53).

| | | | | | | | |
|------|---------|-----|-------|---------|--------------|------------|-------------------|
| Qty: | 46687.0 | Cft | @ Rs. | 2760.00 | P%o | Rs. | 128856.00 |
| | | | | | Cft | | |
| | | | | | Total | Rs. | 2383589.00 |

Part (D) Pumping Machinery

1) Supplying & installing in position i/c transportation to site of work at Rural Water Supply Scheme Bachal Chang Electric pumping set of 2950 RPM (Siemens) made 10 BHP Electric motor 3 phase 50 cycle 400/420 volts with centrifugal, pump type ETA 50-160 size 2 1/2x2 mounted on commons steel frame on base plate Capable of discharge 95 GPM against the required head of 100 ft i/c installed on cement concreete ratio (1.2.4) M.S nuts bolts of 5/8 dia to be embeded in cement concreete foundation providing fixing MCU star delta strater (Siemens made (made and providing internal electric wiring for main switch 3 7/100 1 dia PVC insulated wire 660 volts graade (i) buried on the ground at depth of 3.7 mm * 12 ft(as per Pak PWD secification and testing pumping set against the required head for 72 hours etc complete R.A.Attached)

| | | | | | | | |
|--------|------|------|-------|----------|-------|-----|-----------|
| 10 BHP | 2.00 | Sets | @ Rs. | 293370.0 | P.Set | Rs. | 586740.00 |
|--------|------|------|-------|----------|-------|-----|-----------|

2) Manufacturing and installing 6 dia M.S pipe made out of M.S sheet of 3/16 thick i/c cutting drilling holes and welding of flange with M,S pipe etc

| | | | | | | | |
|---------|-------|-----|-------|--------|-----|-----|----------|
| Suction | 42.00 | Rft | @ Rs. | 385.89 | Rft | Rs. | 16207.00 |
| 3 dia | | | | | | | |

| | | | | | | | |
|----------|-------|-----|-------|--------|-----|-----|---------|
| Delivery | 20.00 | Rft | @ Rs. | 385.89 | Rft | Rs. | 7718.00 |
| 3 dia | | | | | | | |

3) Manufacturing supplying M.S flange of different dia made out of M.S sheet of 3/8 thick i/c cutting drilling holes and welding of flange with M,S pipe etc

| | | | | | | | |
|-------|-------|----|-------|--------|------|-----|---------|
| 3 dia | 18.00 | No | @ Rs. | 500.89 | Each | Rs. | 9016.00 |
| Qty: | | | | | | | |

4) C.I Sluice Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/) M.R)

| | | | | | | | |
|-------|------|-----|-------|---------|------|-----|---------|
| 3 dia | 2.00 | Nos | @ Rs. | 4290.00 | Each | Rs. | 8580.00 |
| Qty: | | | | | | | |

5) C.I Reflex Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/ 10) M.R)

| | | | | | | | |
|-------|------|-----|-------|---------|------|-----|---------|
| 3 dia | 2.00 | Nos | @ Rs. | 1543.75 | Each | Rs. | 3088.00 |
| Qty: | | | | | | | |

| | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|---------|---------|---------|--------------|
| 6) C.I Foot Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/10) M.R) | | | | | | | |
| 3 dia | 2.00 | Nos | @ Rs. | 731.25 | Each | Rs. | 1463.00 |
| Qty: | | | | | | | |
| 7) C.I bend with flanged ends with holes i/c turning and facing of flanges for all size. (PHSI No. 08 P-98). | | | | | | | |
| 4 dia | 33.40 | Kgs | @ Rs. | 120.00 | P.Kg | Rs. | 4008.00 |
| Qty: | | | | | | | |
| 8) Supplying C.I Tapers flat bottomed or central tapered flanged ends with holes i/c turning and facing turning and facing of flanges for all size.(PHSI No.09 P-11). | | | | | | | |
| 4 dia | 21.00 | Kgs | @ Rs. | 120.00 | P.Kg | Rs. | 2520.00 |
| Qty: | | | | | | | |
| 9) Supplying C.I Tee with flang with holes i/c turning and facing turning and facing of flanges for all size.(PHSI No.09 P-11). | | | | | | | |
| 4 dia | 9.07 | Kgs | @ Rs. | 120.00 | P.Kg | Rs. | 1088.00 |
| Qty: | | | | | | | |
| 10) C.I Short Piece (SOM I No. 9 P-15). | | | | | | | |
| 6 dia | 1.00 | No | @ Rs. | 618.75 | Each | Rs. | 619.00 |
| Qty: | | | | | | | |
| 11) Jointing C.I/M.S flanged pipe & special flanged & inside trenches i/c supplying rubber packing of required thickness nuts & bolts with washers etc & other tools required for jointing to the specified pressure etc complete. (PHSI.NO.1, P/35) | | | | | | | |
| 3 dia | 15.00 | Joints | @ Rs. | 499.00 | P.Jiont | Rs. | 7485.00 |
| Qty: | | | | | | | |
| 12) Painting new surface and painting of filled framing skirting pipes gutters similar linear work not exceeding 4 inch (GSI.NO.4 P/69) | | | | | | | |
| Qty: | 62.0 | Rft | @ Rs. | 686.45 | P.Rft | Rs. | 426.00 |
| 13) Repair of transformer 25-KVA & repair 3 Nos coils i/c changing of oil (RA Approved Chief Engineer Vide No3516 Dated 26.02.2010) | | | | | | | |
| Qty: | 1.0 | Rft | @ Rs. | 40000.0 | Each | Rs. | 40000.00 |
| 14) Providing & laying (Main or sub Main) PVC insulated & PVC Sheeted with 4 core copper conductor 300/500 watts size 10 mm2 | | | | | | | |
| Qty: | 30.0 | Meter | @ Rs. | 742.0 | P.Meter | Rs. | 22260.00 |
| | | | | | | Total | Rs 711218.00 |
| | | | | | | Part -D | |

| S. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|-------|--------------------------------------------|----------|------|------|--------|
|-------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|-----------------------------|----------------|----------------|-----------|
| 1 | Feeding Channel | 788489/- | -- | 317437/- |
| 2 | Renovation work | 4050189/- | -- | 106346/- |
| 3 | Distribution System | 2383589/- | -- | 1026351/- |
| 4 | Repair of Pumping Machinery | 124478/- | 586740/- | 711218/- |
| | Total | 7346754/- | 586740/- | 7933494/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

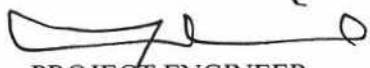
Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


 PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- **REHABILITATION OF DRAINAGE SCHEME HAJI AHMED BUX NAREJO DISTRICT MIRPURKHAS.**

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF DRAINAGE SCHEME HAJI AHMED BUX NAREJO DISTRICT MIRPURKHAS. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 5.800 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: REHABILITATION OF DRAINAGE SCHEME HAJI
AHMED BUX NAREJO DISTRICT MIRPURKHAS.

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

PART-A RENOVATION WORK

| | | | | | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|--|-------------|
| 1. | Jungle clearance & Removing within 100ft (G.S.I.No. 4/b P/94) | | | | |
| | 17774.00 Sft | @Rs: 151/25 | P%oSft | | RS: 2688/- |
| 2. | Earth work excavation in ashes sand soft soil or silt clearance undressed lead upto 50' ft (GSI No.2, P-1). | | | | |
| | 67158.0 Cft | @Rs:1663/75 | P%oCft | | Rs:95111/- |
| 3 | Extra for Slush or daldal i/c dewatering (GSI No:16, P-04) | | | | |
| | 57158.00 Cft | @Rs:2420/- | P%oCft | | Rs:138322/- |
| 4 | Extra for wet earth (GSI No:16, P-03) | | | | |
| | 57158.00 Cft | @Rs:756/25 | P%oCft | | Rs:43226/- |
| 5 | Extra lead for 03 miles (Cartage S.I No: P-) | | | | |
| | 57158.00 Cft | @Rs:579/41 | P%oCft | | Rs:331179/- |
| 6. | Excavation in foundation of building bridges and other structure i/c dag belling dressing refilling around the structure with excavated earth watering ramming lead upto 5ft (b) in ordinary soil (G.S.I.No. 18/b P/ -04) | | | | |
| | 63.00 Cft | @ Rs: 3176/25 | P%o Cft | | Rs: 200/- |
| 7 | Dismantling C.C. Plain 1:2:4 (GSI No. P/) | | | | |
| | 201.00 Cft | @Rs:3327/60 | P% Cft | | Rs: 6688/- |
| 8 | Dismantling brick work in lime or cement mortor (GSI No. P-). | | | | |
| | 56.00 Cft. | @Rs:1285/63 | P%oCft | | Rs: 720/- |
| 9. | Cement concrete brick or stone ballast 1 1/2" to 2" guage ratio 1:4:8 (GSI No.4/b P-15). | | | | |
| | 9.00 Cft | @Rs:9416/28 | P%oCft | | Rs: 847/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|------|-------------|
| 10. | Pucca Brick work in foundation and plinth in cement sand mortar 1:6 No.4 P-21). | | | | (GSI |
| | 254.00 Cft. | @Rs:11948/36 | P%Cft | | Rs: 30349/- |
| 11. | Pucca Brick work other then building i/c striking of joint up to 20'ft height cement sand mortar (1:6) (GSI No.7/C P-22). | | | | |
| | 512.00 Cft | @Rs:12346/65 | P%Cft | | Rs: 63215/- |
| 12 | D.P.C. with cement sand and shingle concrete 1:2:4 i/c 2 coats of asphaltic mixture (b) 2"thick (GSI No:28/b, P-19). | | | | |
| | 254.00 Sft | @Rs:3912/85 | P %Sft | | Rs: 9939/- |
| 13 | Cement Plaster 1:6 up to 12 feet hieght ½" thick (GSI No:11/b, P-52). | | | | |
| | 1829.00 Sft | @Rs:2206/60 | P %Sft | | Rs: 40359/- |
| 14 | Cement Plaster 1:4 up to 12 feet hieght 3/8"thick (GSI No:11/b, P-52). | | | | |
| | 1829.00 Sft | @Rs:2197/52 | P %Sft | | Rs: 40193/- |
| 15 | RCC work i/c labour and material except the cost of steel reinforcement and its labour for bending includes all kinds of forms mould lifting shuttering curing rendering and screening finishing of exposed surface i/c screening and washing of shingle (a) RCC work in roofs slabs beams columns rafts lintels and other structural members laid in situ or pre-cast laid in position complete in all respect (I) Ratio 1:2:4 90lbs cement 2" cft sand 4 cft shingle 1/8" to ¼" gauge (GSI No.6 P-15). | | | | |
| | 296.00 Sft | @Rs:337/00 | P Cft | | Rs: 99752/- |
| 16 | Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making jointing and fastening i/c removal or rust for bare (GSI No.7,P-17). | | | | |
| | 11.893 Cwt | @Rs:5001/70 | P.Cwt | | Rs 59485/- |
| 17 | Providing laying topping cement concrete 1:2:4 including finishing and Dividing into pannels (GSI No:16/a, P-42). | | | | |
| | a) 2"thick topping | | | | |
| | 240.00 Sft | @Rs:3275/50 | P %Sft | | Rs: 7861/- |
| | b) 1-1/2"thick topping | | | | |
| | 479.00 Sft | @Rs:2548/29 | P %Sft | | Rs: 12206/- |
| 18. | Making and fixing steel grated door with ½" thick sheeting including Angle iron frame 2x2' 3"/8" sq bars 4" c/c with locking arrangement (GSI No:24 P- 92) | | | | |
| | 72.00 Sft | @Rs: 726/72 | P. Sft | | Rs:52324/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

| | | | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|------------------|-----------------------|
| 19. | Cement pointing struck joints on wall (b) ratio 1:3 (GSI No-19/b P-53). | | | | |
| | 1285.0 Sft @Rs:1213/58 | P% Sft | | | Rs:15595/- |
| 20. | Distempering on walls 02 coats, (GSI No-24/b P-54). | | | | |
| | 3114.0 Sft @Rs:1043/90 | P% Sft | | | Rs:32507/- |
| 21. | Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of paris and then painting with weather coat of approved make 02 coats (new surface) (GSI No-38, P-56). | | | | |
| | 3114.0 Sft @Rs:1948/10 | P% Sft | | | Rs: 60664/- |
| 22. | Painting old surface:- © preparing surface and painting doors and windows any type 02 coats (GSI No-5/c-iii P-70). | | | | |
| | 314.0 Sft @Rs:674/19 | P% Sft | | | Rs: 2117/- |
| | | | | Total 'A' | Rs:- 1219849/- |

PART-B REPAIR OF SURFACE DRAINS.

| | | | | | |
|----|-------------------------------------------------------------------------------------------------------------|--------|--|--|--------------|
| 1. | Earth work excavation in ashes sand soft soil or silt clearance undressed lead upto 50' ft (GSI No.2, P-1). | | | | |
| | 9275.0 Cft @Rs:1663/75 | P%oCft | | | Rs:15434/- |
| 2 | Extra for Slush or daldal i/c dewatering (GSI No:16, P-04) | | | | |
| | 9275.00 Cft @Rs:2420/- | P%oCft | | | Rs: 22446/- |
| 3 | Extra for wet earth (GSI No:16, P-03) | | | | |
| | 9275.00 Cft @Rs:1058/75 | P%oCft | | | Rs: 9820/- |
| 4 | Rehandling of earth work (a) lead upto single throw of kassi, Phawrah or a shovel (G.S.I.No. 9/a P/02) | | | | |
| | 9275.00 Cft @Rs:756/25 | P%oCft | | | Rs: 7014/- |
| 5 | Extra lead for 03 miles (Cartage S.I No: P-) | | | | |
| | 9275.00 Cft @Rs:579/41 | P%oCft | | | Rs: 53740/- |
| 6. | Pucca Brick work in foundation and plinth in cement sand mortar 1:6 (GSI No.4 P-21). | | | | |
| | 7876.00 Cft. @Rs:11948/36 | P%oCft | | | Rs: 941053/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------|----------------------|
| 7. | Pucca Brick work other than building i/c striking of joint up to 20'ft height cement sand mortar (1:6) (GSI No.7/C P-22). | 512.00 Cft | @Rs:12346/65 | P%Cft | Rs: 63215/- |
| 8. | Cement Plaster 1:6 up to 12 feet height ½" thick (GSI No:11/b, P-52). | 44832.00 Sft | @Rs:2206/60 | P %Sft | Rs: 989263/- |
| 9. | Cement Plaster 1:4 up to 12 feet height 3/8"thick (GSI No:11/b, P-52). | 2810.00 Sft | @Rs:2197/52 | P %Sft | Rs: 61750/- |
| 10 | RCC work i/c labour and material except the cost of steel reinforcement and its labour for bending includes all kinds of forms mould lifting shuttering curing rendering and screening finishing of exposed surface i/c screening and washing of shingle (a) RCC work in roofs slabs beams columns rafts lintels and other structural members laid in situ or pre-cast laid in position complete in all respect (I) Ratio 1:2:4 90lbs cement 2" cft sand 4 cft shingle 1/8" to ¼" gauge (GSI No.6 P-15). | 914.00 Cft | @Rs:337/00 | P Cft | Rs: 308018/- |
| 16 | Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making jointing and fastening i/c removal or rust for bare (GSI No.7,P-17). | 11.893 Cwt | @Rs:5001/70 | P.Cwt | Rs 59485/- |
| Total 'B' | | | | | Rs. 2592216/- |

PART-C REPAIR OF ELECTRICAL & MECHNICAL WORK

- | | | | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|------|---------------|
| 1. | Repair of transformer 25 KVA & repair 03 Nos coils i/c changing of oil (N.S.I) | 1 No | @Rs:40000/- | Each | Rs:- 40,000/- |
| 2. | Rewinding of Electric Motor 3 phase 400/440 volts, 50 cycles with best quality insolated copper wire of required guage i/c testing on load with satisfactory result upto one week time opening and refitting and replacing the bolts if necessary exluding the cost of worn out material (E.S.I.No.97P/109) 10 BHP | 3 No | @Rs:10000/- | Each | Rs: 40000/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|--------|---------------------|
| 3. | Motor control unit MCU /SD 10 BHP a consist of circuit breaker, magnatic controller, over load protection, under / over voltage protection phase failure protection, ammeter with potential transformer, automatic, star delta change over switch, control a power cables indicating lights and these components are fixed in a metallic ust and smock proof box KSB made (E.S.I.No. P/) 10 BHP | 2 No | @Rs:48750/- | Each | Rs: 97500/- |
| 4. | Providing laying (main or sub-main) PVC insulated & PVC sheeted with 4 core copper conductor 300/500 watts size 10mm2 (E.S.I.No. P) | 60.00 Mtr. | @Rs:742/- | P.Mtr: | Rs: 44520/- |
| 3. | M.S Pipe made out of M.S sheet of 4.8 mm (3/16") thick M.S Sheet i/c cutting bending folding to correct curvature as shape (R.A. Based on Schedule items). | | | | |
| i) | Suction 3" dia | | | | |
| | 40.0 Rft | @Rs:385/75 | P.Rft | | Rs: 33946/- |
| ii) | Delivery 4" dia | | | | |
| | 88.0 Rft | @Rs:506/60 | P.Rft | | Rs: 44581/- |
| 4. | Manufacturing Supplying M.S flanges 3" and 4" dia made out of M.S.Sheet 3/8" thick (R.A.Based on schedule items). | | | | |
| i) | 3" dia 8 Nos | @ Rs. 500/89 | Each | | Rs: 4007/- |
| | 4" dia 8 Nos | @ Rs. 596/75 | Each | | Rs: 4774/- |
| 5. | C.I. Sluice valve heavy pattern (test pressure 300 lbs/sq: inch) (SOMI No.2 P-9). | | | | |
| | 3" dia | | | | |
| | 8 Nos. | @Rs:4290/- | Each | | Rs: 32320/- |
| | 4" dia | | | | |
| | 8 Nos. | @Rs:5460/- | Each | | Rs: 43680/- |
| 8. | C.I. Bend with flanged ends with holes i/c turning and facing of flanges for all size (SOMI No.8 P-11) | | | | |
| | 68.72 Kg | @Rs:120/- | P.Kg | | Rs: 8246/- |
| 12. | Jointing C.I / M.S flanged pipes and specials flange and inside a trench i/c supplying rubber packing of the required thickness nuts bolts with was hers etc and other tools required for jointing and testing and testing the joint to the specified pressure etc complete (PHSI No.1 P-35) | | | | |
| i) | 3" dia | | | | |
| | 12. Joint | @Rs:499/- | P.Joint | | Rs: 5988/- |
| iii) | 4" dia | | | | |
| | 12 Joints | @Rs:513/- | P.Joint | | Rs: 6156/- |
| | | | Total 'C' | | Rs. 397718/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

PART-D PVC RISING MAIN.

1. Excavation for pipe line trenches pits tanks/reservoir in soft soil i/c trimming dressing side to true alignment and shape leveling of trenches to correct level and grade cutting joints holes providing fence guards light flanges and temporary crossing for non-vehicular traffic wherever required lift upto 5'ft and lead upto one chain (PHSI No.1 P-60).

40600.00 Cft @Rs: 3600/- P%oCft. Rs:146160/-

2. Providing PVC Pipes of Class 'B' (equivalent make) fixing in trench i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to head of 61 meter or 200 ft. (PHSI No:01 P-22).

4" dia

5800.0 Rft @Rs: 137/- P.Rft Rs:794600/-

3. Cost iron Specials for U-PVC / AC Pipe (standard weight for A.C.I.L B" class) (SORM No 15 P-99).

Bend 90o 4" dia

3 Nos @Rs:893/75 Each Rs: 2681/-

Bends 45o 4" dia

4.0 Nos @Rs:731/25 Each Rs: 2925/-

4. Making joint to C.I. Specials fitting including laying of the required dia meter and testing the joint alongwith the A.C Pressure pipe lying to the specified pressure and making good to all leaky joints etc complete (PHSI No.1 P-56).

4" dia

6.0 Joint @Rs:70/- P.Joint Rs: 420/-

5. Jointing C.I/M flanged pipes and specials flanged and Inside a trench i/c supplying rubber packing of the Required thickness nuts bolts with washers etc.and other Tools required for jointing and testing the joints in the Specified pressure etc complete(P.H.S.I No.D1 P-35).

4" dia

6.0 Jont @Rs:513/- P.joint Rs: 3078/-

6. Refilling the excavated stuff intrench 6" thick layer i/c watering ramming to full compaction etc complete (PHSI No.24 P-77).

36540.0 Cft @Rs:2760/- P%oCft Rs: 100850/-
Total 'D' Rs:- 1050714/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|-----------------------------|----------------|----------------|-----------|
| 1 | Renovation work | 1219849/- | -- | 1219849/- |
| 2 | Repair of Surface Drains | 2592216/- | -- | 2592216/- |
| 3 | Repair of Pumping Machinery | 357718/- | 40000/- | 397718/- |
| 4 | Rising main | 1050714/- | -- | 1050714/- |
| | Total | 5220497/- | 40000/- | 5260497/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- **REHABILITATION OF DRAINAGE SCHEME DEH-94**
DISTRICT MIRPURKHAS.

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF DRAINAGE SCHEME DEH-94 DISTRICT MIRPURKHAS. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 5.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1.:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY

**(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES**

**NAME OF WORK:- RE-HABILITATION OF DRAINAGE SCHEME DEH-94
DISTRICT MIRPURKHAS.**

| S. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|-------|--------------------------------------------|----------|------|------|--------|
|-------|--------------------------------------------|----------|------|------|--------|

(A) Pumping Machinery

1) Supplying & installing in position i/c transportation to site of work at Rural Drainage Scheme Deh -294 Electric pumping set of 1450 RPM (Siemens) made 05 BHP Electric motor 3 phase 50 cycle 400/420 volts with centrifugal, pump type ETA 65-315 size 3 2/5 mounted on commons steel frame on base plate Capable of discharge 60 GPM against the required head of 100 ft i/c installed on cement concrete ratio (1.2.4) M.S nuts bolts of 5/8 dia to be embedded in cement concrete foundation providing fixing MCU star delta strater (Siemens made (made and providing internal electric wiring for main switch 3 7/100 1 dia PVC insulated wire 660 volts graade (i) buried on the ground at depth of 3.7 mm * 12 ft(as per Pak PWD secification and testing pumping set against the required head for 72 hours etc complete R.A.Attached)

| | | | | | | | |
|--------|------|------|-------|----------|-------|-----|-----------|
| 05 BHP | 1.00 | Sets | @ Rs. | 324000.0 | P.Set | Rs. | 324000.00 |
|--------|------|------|-------|----------|-------|-----|-----------|

2) Supplying & installing in position i/c transportation to site of work at Rural Drainage Scheme Deh -294 pumping set of 1450 RPM 12 BHP Diesel Engine with non-cologging pump Type ETA 65-315 size 3x2/5 mounted on common steel frame on base plate (capable of discharge 250 GPM against head of 60 ft i/c installed on cement concrete ratio (1.2.4) M.S nuts bolts of 5/8 dia to be embedded in cement concrete foundation providing fixing MCU star delta strater (Siemens made (made and providing internal electric wiring for main switch 3 7/100 1 dia PVC insulated wire 660 volts graade (i) buried on the ground at depth of 3.7 mm * 12 ft(as per Pak PWD secification and testing pumping set against the required head for 72 hours etc complete R.A.Attached)

| | | | | | | | |
|--------|------|------|-------|----------|-------|-----|----------|
| 12 BHP | 1.00 | Sets | @ Rs. | 205000.0 | P.Set | Rs. | 205000.0 |
|--------|------|------|-------|----------|-------|-----|----------|

3) Manufacturing and installing 6 dia M.S pipe made out of M.S sheet of 3/16 thick i/c cutting drilling holes and welding of flange with M,S pipe etc

| | | | | | | | |
|---------------|-------|-----|-------|--------|-----|-----|----------|
| Suction 3 dia | 40.00 | Rft | @ Rs. | 285.79 | Rft | Rs. | 11431.60 |
|---------------|-------|-----|-------|--------|-----|-----|----------|

| | | | | | | | |
|----------------|-------|-----|-------|--------|-----|-----|---------|
| Delivery 4 dia | 20.00 | Rft | @ Rs. | 367.13 | Rft | Rs. | 7343.00 |
|----------------|-------|-----|-------|--------|-----|-----|---------|

4) Manufacturing supplying M.S flange of different dia made out of M.S sheet of 3/8 thick i/c cutting drilling holes and welding of flange with M,S pipe etc

| | | | | | | | |
|------------|-------|----|-------|--------|------|-----|---------|
| 3 dia Qty: | 12.00 | No | @ Rs. | 500.89 | Each | Rs. | 6011.00 |
|------------|-------|----|-------|--------|------|-----|---------|

| | | | | | | | |
|------------|------|----|-------|--|------|-----|---------|
| 4 dia Qty: | 6.00 | No | @ Rs. | | Each | Rs. | 3219.00 |
|------------|------|----|-------|--|------|-----|---------|

5) C.I Sluice Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/

| | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|---------|---------|------------|----------|
| 3 dia Qty: | 2.00 | Nos | @ Rs. | 4290.00 | Each | Rs. | 8580.00 |
| 6) C.I Reflex Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/10) | | | | | | | |
| 3 dia Qty: | 2.00 | Nos | @ Rs. | 1375.00 | Each | Rs. | 2750.00 |
| 7) C.I Foot Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/10) | | | | | | | |
| 3 dia Qty: | 2.00 | Nos | @ Rs. | 731.25 | Each | Rs. | 1463.00 |
| 8) C.I bend with flanged ends with holes i/c turning and facing of flanges for all size. (PHSI No. 08 P-98). | | | | | | | |
| Qty: | 62.020 | Kgs | @ Rs. | 120.00 | P.Kg | Rs. | 7442.00 |
| 9) Supplying C.I Tapers flat bottomed or central tapered flanged ends with holes i/c turning and facing turning and facing of flanges for all size.(PHSI No.09 P-11). | | | | | | | |
| 3 dia Qty: | 15.24 | Kgs | @ Rs. | 120.00 | P.Kg | Rs. | 1829.00 |
| 10) Supplying C.I Tee with flang with holes i/c turning and facing turning and facing of flanges for all size.(PHSI No.09 P-11). | | | | | | | |
| dia Qty: | 35.08 | Kgs | @ Rs. | 120.00 | P.Kg | Rs. | 4210.00 |
| 11) C.I Blank flanged) No. 9 P-15). | | | | | | | |
| 4 Qty: | 1.00 | No | @ Rs. | 500.00 | Each | Rs. | 500.00 |
| 12) C.I Short Piece (SOM I No. 9 P-15). | | | | | | | |
| 6 dia Qty: | 1.00 | No | @ Rs. | 618.75 | Each | Rs. | 619.00 |
| 13) Jointing C.I/M.S flanged pipe & special flanged & inside trenches i/c supplying rubber packing of required thickness nuts & bolts with washers etc & other tools required for jointing to the specified pressure etc complete. (PHSI.NO.1, P/35) | | | | | | | |
| 3 dia Qty: | 14.00 | Joints | @ Rs. | 499.00 | P.Jiont | Rs. | 6986.00 |
| 4 dia Qty: | 7.00 | Joints | @ Rs. | 938.00 | P.Jiont | Rs. | 6566.00 |
| 14) Painting new surface and painting of filled framing skirting pipes gutters similar linear work not exceeding 4 inch (GSI.NO.4 P/69) | | | | | | | |
| Qty: | 64.0 | Rft | @ Rs. | 974.71 | P.Rft | Rs. | 624.00 |
| 15) Providing laying main or sub main PVC sheeted for core copper conductor 600/100 volts PH to E Pole | | | | | | | |
| Qty: | 250.0 | Rft | @ Rs. | 396.34 | P.Rft | Rs. | 99085.00 |
| | | | | | | Total Part | 697659.0 |

(B)Surface Drains

1) Earth work excavation in ashes, sand soft soil or silt clearance undressed lead upto 50'ft (GSI:No: 2 P-1)

| | | | | | | | |
|------|--------|-----|-------|---------|----------|-----|---------|
| Qty: | 1942.0 | Cft | @ Rs. | 1663.75 | P% o Cft | Rs. | 3231.00 |
|------|--------|-----|-------|---------|----------|-----|---------|

2) Extra for slush or daldal i/c dewatering (GSI:No: 16 P-02)

| | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|-------|----------|-------------|-----|-----------|
| Qty: | 1942.0 | Cft | @ Rs. | 2420.00 | P% o Cft | Rs. | 4700.00 |
| 3) Dismantalling brick work in lime or cement sand mortar (GSI NO. 13 P-11.) | | | | | | | |
| Qty: | 1114.00 | Cft | @ Rs. | 1285.63 | P% Cft | Rs. | 14322.00 |
| 4) Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio (1:4:8) (GSINo:5P/17) | | | | | | | |
| Qty: | 375.00 | Cft | @ Rs. | 11288.75 | P% Cft | Rs. | 42333.00 |
| 5) Pacca brick work in foundation and plinth in cement sand mortar (1:6) Ratio (GSINo:04/EP-21) | | | | | | | |
| Qty: | 870.00 | Cft | @ Rs. | 11948.36 | P% Cft | Rs. | 103951.00 |
| 6) Pacca brick work other than building 1.6 (GSINo:04/EP-21) | | | | | | | |
| Qty: | 1114.00 | Cft | @ Rs. | 12346.65 | P% Cft | Rs. | 137542.00 |
| 07) Cement plaster (1:4) upto 12'ft height 1/2"thick (GSINo:P52) | | | | | | | |
| Qty: | 6983.00 | Sft | @ Rs. | 2283.93 | P% Sft | Rs. | 159487.00 |
| 9) Making & fixing steel grated door with 1/16" thick sheeting i/c angle iron frame 2"x2"x3/8" & 3/4"sq:bars 4"centre to centre with locking arrangement(GSI No:24, P-92). | | | | | | | |
| Qty: | 50.0 | Sft | @ Rs. | 726.72 | P Sft | Rs. | 36336.00 |
| 10) White washing two coats (GSI No:26, P-54) | | | | | | | |
| Qty: | 6728.0 | Sft | @ Rs. | 416.63 | P% Sft | Rs. | 28031.00 |
| 11) Colour wash Two coats (GSI No: 24, P-54) | | | | | | | |
| Qty: | 6728.0 | Sft | @ Rs. | 859.90 | P% Sft | Rs. | 57854.00 |
| 12) Painting new surface and painting of door & window any type i/c edges (O.4 P/69) | | | | | | | |
| Qty: | 100.0 | Sft | @ Rs. | 2116.41 | P.%Sft | Rs. | 2116.00 |
| | | | | | | | 589903.0 |

(C) Rising Main

1) Excavation of pipe line in trenches and pits i/c trimming and dressing side to true alignment and shape leveling of beds of trenches correct level i/c cutting joint holes and disposal of surplus earth within in one chain as directed by gineer In charge i/c providing fence guards light fleg and wherever required lift upto 5' ft and lead up to one chain (PHSI No.1 P-46).

| | | | | | | | |
|------|----------|-----|-------|---------|------------|-----|-----------|
| Qty: | 67500.00 | Cft | @ Rs. | 3600.00 | P%o Cft | Rs. | 243000.00 |
|------|----------|-----|-------|---------|------------|-----|-----------|

2) Provinding PVC pressure pipes and comet joints of class "B" and fixing in trenches IC cutting fting and jointing with rebble ring i/c testing with water to a head of 122 meter or 400ft, (R.A Attached)

Qty: 6 dia 8000.0 Rft @ Rs. 262.00 P Rft Rs. 2096000.00

3) Cost iron speacial for A.C pressure pipes (M.R)

i) Tee Equal 6x6

Qty: 1.0 Nos @ Rs. 1950.00 Each Rs. 1950.00

ii) Bend 90 6" Dia

Qty: 6.0 Nos @ Rs. 2212.00 Each Rs. 13272.00

iii) C.I.Sluice Valve heavy patteern test pressue 300 LBS /sq

Qty: 6 dia 1.0 Nos @ Rs. 9360.00 Each Rs. 9360.00

4) Making Joint to PVC speacial fitting i/c laying of the required Dia meter and testing the joints along with asbestos cement pressure pipe line to the specified pressure and making good to all leaky joints ect complete. (PSHI No: 1,P-80)

6 dia Qty: 8.00 Joint @ Rs. 96.00 P.Joint Rs. 768.00

5) Jointing C.I/M.S flanged pipe & special flanged & inside trenches i/c supplying rubber packing of required thickness nuts & bolts with washers etc & other tools required for jointing to the specified pressure etc complete. (PHSI.NO.1, P/35)

6 dia Qty: 2.00 Joint @ Rs. 938.00 P.Joint Rs. 1876.00

6) Refilling the excavated stuff in 6" thick layers i/c watering and ramming to full compaction etc complete. (PHSI No: 24,P-53)

Qty: 60750.0 Cft @ Rs. 2760.00 P% o Rs. 167670.00
Cft

7) Providing chamber 2 1/5 2 1/2"x2 1/2"(750x750) inside dimension 4 1/2" @ (1372mm) deep as per approved designed for sluice valve 3" to 12",18" (497mm) dia inside cost iron and frame (wt. 1 cwt 3 qr.) fixed in RCC 1:2:4 slab 4" (1.02mm) thick the steel per cft mortar 6" (152mm) thick cement concrete 1:2:4 flooring 1/2" (1.5mm) thick plaster 1:3 inside valve surface and to top i/c providing and fixing M.S foot rest as every one foot beyond 2 1/2 depth curing excavation back filling and disposal of surplus earth to complete (PHSI No. 1 P- 40)

Qty: 1.0 Nos @ Rs. 18820.00 Each Rs. 18820.00

2552716.00

(D) Oxidation Ponds

1) Excavation for tank and reservoir in soft soil i/c trimming and dressing sides to true alignment design section/profile and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" lyres for constriction of banks and dressing and disposal of surplus excavated earth within one chain as directed by engineer In charge i/c providing fence guards flag wherever required lift upto 5 ft and lead upto one chain (30.50mm) (PHSI No: 1 P-49).

Qty: 33689.0 Cft @ Rs. 3000.00 P% o Cft Rs. 101067.00

2) Excavation for tank and reservoir in wet soil clay or mud i/c trimming and dressing sides to true alignment design/profile section/profile and shape leveling of beds of tank in 6" correct level in grade i/c laying of earth in 6" lyres for constriction of base and dressing disposal of surplus excavated earth within one chain as directed by engineer In charge i/c providing fence guards flag wherever required lift upto 5 ft (1.52mm) and lead upto one chain (30.50mm) (PHSI/14/P-52)

Qty: 19111.0 Cft @ Rs. 5400.00 P% o Cft Rs. 103199.00

3) Dressing Levelling of earth work to designed section etc complete

Qty: 16172.0 Cft @ Rs. 96.80 P% o Cft Rs. 1565.00

4) Excavation for pipe lines in trenches & pits in soft Soil i/c trimming and dressing side to true alignment & shape leveling of beds of trenches to correct level and grade, cutting joint holes & disposal of surplus earth within in one chain as directed by Engineer In charge. Providing fence guards lights flegs and temporary crossing for none vehicular traffic where ever required lift upto 5' ft (1.52m) & lead up to one chain (30.50m) (PHSI No. A P-46).

Qty: 1536.00 Cft @ Rs. 3600.00 P%o Cft Rs. 5530.00

5) Providing the pipes of ASTM C-76-62 TC 76-70 Class 'II' well-B & fixing in trench i/c cutting, fitting and jointing with rubber rings i/c testing with water to the specified pressure. (P.H.S.I.No: 11P-18)

12 dia 128.00 Rft @ Rs. 412.00 P.Kg Rs. 52736.00

Qty:

6) Refilling the excavated stuff in 6" thick layers i/c watering and ramming to full compaction etc complete. (PHSI No: 24,P-53)

Qty: 1228.0 Cft @ Rs. 2760.00 P% o Cft Rs. 3389.00

7) Earth work compaction soft ordinary hard soil (b) laying earth in 6 layer levelling & dressing & watering for compaction (GSI No. 13 P- 3)

Qty: 16172.0 Cft @ Rs. 354.00 P% o Cft Rs. 5725.00

8) Eatra for every 50 ft additional lead or part thereof (GSI No. 08 P- 3)

Qty: 36628.0 Cft @ Rs. 2418.72 P% o Cft Rs. 88593.00

9). Cement concrete plain i/c placing compacting finishing and curing complete (i/c screening washing of stone aggregate w/o shuttering (1:4:8)(GSI: 5,(i)P/-18).

Ratio (127.00 Cft @ Rs. 11288.75 P% Cft Rs. 14337.00
1.4.8)

Ratio (24.00 Cft @ Rs. 12595.00 P% Cft Rs. 3023.00
1.3.6)

10) Pacca brick work other then building i/c staking joints up to 20 ft height in cement sand mortar (1:6) (CSI: No: 4,i© P-24)

Qty: 968.0 Cft @ Rs. 11948.36 P% Cft Rs. 115660.00

11) Cement plaster (1:4) upto 12'ft height 1/2"thick

Qty: 1892.0 Sft @ Rs. 2206.60 P% Sft Rs. 41749.00

12) Cement plaster (1:6) upto 12'ft height 3/8"thick

Qty: 1892.0 Sft @ Rs. 2197.52 P% Sft Rs. 41577.00

Total Rs. **578150.00**

| S. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|-------|--------------------------------------------|----------|------|------|--------|
|-------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|-----------------------|----------------|----------------|-----------|
| 1 | Pumping Machinery | 168659/- | 529000/- | 697659/- |
| 2 | Surface Drains | 589503/- | -- | 589503/- |
| 3 | Rising main | 2552716/- | -- | 2552716/- |
| 4 | Oxidation Pond | 578150/- | -- | 578150/- |
| 5 | Repair of Transformer | -- | 30000/- | 30000/- |
| | Total | 3889428/- | 559000/- | 4448428/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-


Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)


Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- REHABILITATION OF DRAINAGE SCHEME
KALWARI DISTRICT MIRPURKHAS.

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF DRAINAGE SCHEME KALWARI DISTRICT MIRPURKHAS. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 5.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1.:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: REHABILITATION OF DRAINAGE SCHEME
KALWARI DISTRICT MIRPURKHAS.

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

PART -A OXIDATION POUND

| | | | | | |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|--|-------------|
| 1 | Excavation for tanks and reser voir in soft soil I/C trimming and dressing sides to true Alignment / design sections / pro files and shap lavelling of beds of trenches to correct Level and grade i/c laying of earth in 6" layer for construction of banks and dressing And disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharg i/c providing fence guards, lights , flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft .(1.52m) and lead upto one chain (30.5m) (PHS No1P-NO :67) | | | | |
| | 25086.00 Cft | @Rs:3000/- | P%o Cft | | Rs:75258/- |
| 2 | Excavation for tanks and reser voir in weat soil clay or mud I/C trimming and dressing sides to true Alignment / design sections / pro files and shap lavelling of beds of trenches to correct Level and grade i/c laying of earth in 6" layer for construction of banks and dressing And disposal of surplus earth. Excavated earth within a one chain as directed by Engineer Incharg i/c providing fence guards, lights , flags and temporary crossings for non- vehicular traffic where ever required lift upto 5 ft .(1.52m) and lead upto one chain (30.5m) (PHS No .IP-No:67 | | | | |
| | 52158.0 Cft | @Rs:5400/- | P%o Cft | | Rs:281653/- |
| 3 | Dressing and leveling of earth work to designed section , etc complete | | | | |
| | 26546.0Cft | @Rs:96/80 | P%oCft | | Rs: 2570/- |
| 4 | Excavation for pipe line trenches pits tanks/reservoir in soft soil i/c trimming dressing side to true alignmentand shape leveing of trenches to correct level and grade cutting joints holes provifing fence guards light flanges and temporary crossing for non-vehicular traffic wherever required lift upto 5'ft and lead upto one chain (PHSI No.1-p-60 | | | | |
| | 1536.0 Cft | @Rs:3600/0 | P%oCft | | Rs: 5530/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

- 5 Providing Rcc pipe of A.S.T.M C.76 .62 T/C .76 .70 of class II Wall B & fixing In Trench i/c cutting , fitting & jointing with rubber ring i/c testing with specified pressure. (PHS I NO B1 P NO 17)

12"dia

128.0 .00 Rft @Rs 412/- P%Rft Rs: 52736/-

- 6 Refilling the excavated stuff in trenches 6" thick layers i/c watering ramming to f Compaction etc complete(P.H.S.I.NO 24 P-77).

1228.00 Cft @Rs:2760/- P%Cft Rs: 3392/-

7. Earth work compaction in soft ordinary hard soil b) laying earth in 6' layer leveling and dressing and watering for compaction.(GSI No-13 b P-3)

26546.0 Cft @Rs:354/- P%oCft RS: 9397/-

- 8 Extra for every 50 feet additional lead or part thereof (GSI NO:8a P NO:2)

50698.0 Cft @Rs:2418/72 P%oCft RS: 22624/-

- 9 Cement concrete plain i/c placing compacting, finishing & curing complete screening & washing of stone aggregate with out shuttering. (GSI NO 5 P NO 16).

Ratio 1:4:8

127.0 Cft @Rs:11288/75 P%Cft Rs: 14337/-

- 10 Pucca brick work in foundation and plinth in cement sand mortar (1:6) (GSI No.4 P-24).

968.00 Cft @Rs:11948/36 P%Cft Rs: 115660/-

- 11 Cement plaster (1:6) upto 12' ft height ½" thick. (GSI No.11 P-57).

1892.0 Sft @Rs:2206/60 P%Sft Rs: 41749/-

- 12 Cement plaster (1:4) upto 12' ft height ½" thick. (GSI No.11 P-57).

1892.0 Sft @Rs:2197/52 P%Sft Rs: 41577/-

Total: Rs: 766483/-

PART-B PVC RISING MAIN.

1. Excavation for pipe line trenches pits tanks/reservoir in soft soil i/c trimming dressing side to true alignment and shape leveling of trenches to correct level and grade cutting joints holes providing fence guards light flanges and temporary crossing for non-vehicular traffic wherever required lift upto 5'ft and lead upto one chain (PHSI No.1 P-60).

50625.00 Cft @Rs: 3600/- P%oCft. Rs:182250/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|---------|--------------|
| 2. | Providing PVC Pipes of Class 'B' (equivalent make) fixing in trench i/c cutting fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to head of 61 meter or 200 ft. (PHSI No:01 P-22). | | | | |
| | 6" dia 307.0 Rft | @Rs: 262/- | | P.Rft | Rs:1572000/- |
| 3 | Cost iron Specials for U-PVC / AC Pipe (standard weight for A.C.I.L B" class) (SORM No 15 P-99). | | | | |
| | Tee Equal 6"x6" 2 Nos | @Rs:1950/- | | Each | Rs: 1950/- |
| | Bends 90* 6" dia 6.0 Nos | @Rs: 2212/- | | Each | Rs: 2212/- |
| 4. | C.I Sluice valve heavy pattern (Test Pressure 300 LBS/ sq inch (SOIM No 2 p-97). | | | | |
| | 6" dia 2.0 Nos | @Rs:9360/- | | Each | Rs: 18720/- |
| 5. | Making joint to C.I. Specials fitting including laying of the required dia meter and testing the joint alongwith the A.C Pressure pipe lying to the specified pressure and making good to all leaky joints etc complete (PHSI No.1 P-56). | | | | |
| | 6" dia 5.0 Joint | @Rs:96/- | | P.Joint | Rs: 480/- |
| 6 | Jointing C.I/M flanged pipes and specials flanged and Inside a trench i/c supplying rubber packing of the Required thickness nuts bolts with washers etc.and other Tools required for jointing and testing the joints in the Specified pressure etc complete(P.H.S.I No.D1 P-35). | | | | |
| | 6" dia 4.0Jont | @Rs:938/- | | P.joint | Rs: 3752/- |
| 7 | Refilling the excavated stuff intrench 6" thick layer i/c watering ramming to full compaction etc complete (PHSI No.24 P-77). | | | | |
| | 4563.0 Cft | @Rs:2760/- | | P%oCft | Rs: 125754/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

- 8 Providing Chamber 3 ½ x 2 ½' (1064x762mm) inside Dimension 4.50'ft (2.13 meter) deep as per approved design for sluice valve 15" to 24" with 24" (610mm) dia inside cost iron cover and frame (wt=2 Cwt 3 qr) fixed in RCC 1:2:4 slab 6" thick (with 5 lbs steel per cft) 9" (299mm) thick burnt brick masonry walls set in 1:6 cement mortar 6" thick cement concrete 1:3:6 in foundation 1" thick cement concrete 1:2:4 flooring ½ thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at every one foot beyond 2 ½ ft depth. Curing Excavation Back filing and disposal of surplus earth etc complete(PHSI No.1 P-49).

2.0 Nos @Rs:18820/- Each Rs:37640/-
TOTAL:- RS:1981808/-

PART-C PUMPING MACHINERY

1. Supplying and Installing in position i/c transportation to site OF Drainage SCHEME KALWARI Electric Pumping Set of 1450 RPM (Siemens) made 10 BHP Electric Motor 3 phase 50 Cycles 400/420 volts with Non-clogging Pump type ETA-65-315, size 3"x2/5" mounted on common steel frame on base plate (Capable of Discharge 250 GPM against the required head of 60 ft, i/c installed on cement concrete Ratio 1:2:4 MS nuts and bolts of 5/8" dia to be embedded in cement concrete foundation providing fixing MCU star delta starter (Siemens made) made and providing internal Electric wiring for main switch 3-7/1.047(7/0.36) PVC insulated wire 660 volts grade in 25 mm (i) buried on the ground at depth of 3.7m(12 ft) as per Pak PWD Specifications and testing pumping set against the required head for 72 hours etc complete

1 Set @Rs: 324000/- P.Set Rs: 324000/-

2. Supplying and Installing in position i/c transportation to site OF Drainage scheme KALWARI Diesel Engine Pumping Set of 1450 RPM 12 BHP Diesel Engine with non-clogging pump type kwp -65-315, size 3"x2/5 mounted on common steel frame on base plate (Capable of Discharge 250 GPM against the required head of 60 ft, i/c installed on cement concrete Ratio 1:2:4 MS nuts and bolts of 5/8" dia to be embedded in cement concrete foundation as per Pak PWD Specifications and testing pumping set against the required head for 72 hours etc complete

1 Set @Rs: 205000/- P.Set Rs: 205000/-

3. M.S Pipe made out of M.S sheet of 4.8 mm (3/16") thick M.S Sheet i/c cutting bending folding to correct curvature as shape (R.A.Appoved).

i) **Suction 3" dia**
40.0 Rft @Rs:285/79 P.Rft Rs: 12575/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|------|-------------|
| ii) | <u>Delivery 6" dia</u> | | | | |
| | 20.0 Rft | @Rs:749/34 | P.Rft | | Rs: 14987/- |
| 4. | Manufacturing Supplying M.S flanges(PHSI No.1 P-32). | | | | |
| i) | 3" dia 12 Nos | @ Rs. 500/89 | Each | | Rs: 6011/- |
| | 6" dia 6 Nos | @ Rs. 804/77 | Each | | Rs: 3219/- |
| 5. | C.I. Sluice valve heavy pattern (test pressure 300 lbs/sq: inch) (SOMI No.2 P-9). | | | | |
| | <u>3" dia</u> | | | | |
| | 2 Nos. | @Rs:4290/- | Each | | Rs: 8580/- |
| 6. | C.I. Reflex valve heavy pattern (Test) pressure 300 lbs/sq:inch (SOMI No.P.10) | | | | |
| | <u>3" dia</u> | | | | |
| | 2 Nos. | @Rs: 1375/- | Each | | Rs: 2750/- |
| 7. | C.I. Foot valve heavy pattern with cone type gate (Imported) (SOMI No.4 P.10) | | | | |
| | <u>3" dia</u> | | | | |
| | 2 Nos. | @Rs:731/25 | Each | | Rs: 1463/- |
| 8. | C.I. Bend with flanged ends with holes i/c turning and facing of flanges for all size (SOMI No.8 P-11) | | | | |
| | 62.02 Kg | @Rs:120/- | P.Kg | | Rs: 7451/- |
| 9. | C.I. Tappers flate bottomed or central tapered flanged ends with holes i/c turning and facing of flanges for all sizes (SOMI NO.9 P-11) | | | | |
| | 15.24 Kg. | @Rs:120/- | P.Kg | | Rs: 1829/- |
| 10 | C.I. Tee with flanged ends with holes i/c turning and facing of flanges for all sizes (SOMI No.7 P-11) | | | | |
| | 35.08 Kg. | @Rs:120/- | P.Kg | | Rs: 4210/- |
| 10a | C.I Blank flange (SQMI No 12 P 103) | | | | |
| | 6" Dia = 1 No | @ Rs:500/- | Each | | RS: 500/- |

| Sr. No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|--------|--------------------------------------------|----------|------|------|--------|
|--------|--------------------------------------------|----------|------|------|--------|

| | | | | | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|--|---------------------|
| 11. | C.I. Short Piece (SOMI No.9 P-15) 6" dia | | | | |
| | 1 No | @Rs:618/75 | Each | | Rs: 619/- |
| 12. | Jointing C.I / M.S flanged pipes and specials flange and inside a trench i/c supplying rubber packing of the required thickness nuts bolts with washers etc and other tools required for jointing and testing and testing the joint to the specified pressure etc complete (PHSI No.1 P-35) | | | | |
| i) | 3" dia | | | | |
| | 14. Joint | @Rs:499/- | P.Joint | | Rs: 6986/- |
| iii) | 6" dia | | | | |
| | 07 Joints | @Rs:938/- | P.Joint | | Rs: 6586/- |
| 13. | Painting New Surfaces Preparing surface and painting of fillet framing skirting pipes gutters similar linear work not exceeding 4" inch (GSI No.4 P-75) | | | | |
| | 64.0 Rft | @Rs:974/71 | P%Rft | | Rs: 624/- |
| 14. | P/L Main or Sub main insulated and PVC sheathed 4 core copper conductor 600/100 Volts (SQE No 01 P- 12) | | | | |
| | 250 Rft = | @ Rs: 396/34 | P Rft | | Rs: 99085 |
| 15. | Cutting holes 4"x6" in stone masonry or brick wall with repairing masonry within (GSI No.72 P-113) | | | | |
| | 3 Nos. | @Rs:89/54 | P.Hole | | Rs: 269/= |
| | | | TOTAL:- | | Rs: 706723/- |

PART-RENOVATION WORK

| | | | | | |
|----|----------------------------------------------------------------------------------------------------------------------------|-------------|--------|--|------------|
| 1. | Full hire charges of pumping set upto 10 BHP but not less than Pumping out water from 20' ft deep trench .(PHSI No.6 P/77) | | | | |
| | 4 Days | @Rs: 2000/- | P. Day | | RS: 8000/- |
| 2. | Earth work excavation in ashes sand soft soil or silt clearance undressed lead upto 50' ft (GSI No.2, P-1). | | | | |
| | 7238.0 Cft | @Rs:1663/75 | P%oCft | | Rs:12042/- |
| 3 | Extra for Slush or daldal i/c dewatering (GSI No:16, P-04) | | | | |
| | 7238.00 Cft | @Rs:2420/- | P%oCft | | Rs:17516/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------------|
| 4 | Dismantling Brick work in lime or Cement Mortar (GSI No:13, P-10) | | | | |
| | 971.00 Cft @Rs:1285/63 | P%Cft | | | Rs:12483/- |
| 5 | Dismantling CC reinforced seprating reinforcement from concrete cleaning and straightening the same . (1:2:4) (GSI No:20, P-10) | | | | |
| | 100.48 Cft @Rs:5445/00 | P%oCft | | | Rs:5471/- |
| 6. | Dismatling Cement Concrete 1:2:4 (GSI NO-19 C' -P-10) | | | | |
| | 309.00 Cft @ Rs: 3327/50 | P% Cft | | | Rs: 10282/- |
| 7 | Removing cement or lime plaster (GSI No.53 P/15) | | | | |
| | 86202.0 Sft @Rs:121/- | P% Sft | | | Rs:10408/- |
| 8 | Pucca Brick work in foundation and plinth in cement sand mortar 1:6 (GSI No.4 P-21). | | | | |
| | 3360 Cft. @Rs:11948/36 | P%Cft | | | Rs:401465/- |
| 9. | Pucca Brick work other then building i/c streking of joint up to 20'ft hight cement sand mortar (1:6) (GSI No.7/C P-22). | | | | |
| | 971.00 Cft @Rs:12346/65 | P%Cft | | | Rs:119886/- |
| 10 | Cement Plaster 1:4 up to 12 feet hieght ½" thick (GSI No:11/b, P-52). | | | | |
| | 12306.00 Sft @Rs:2283/93 | P %Sft | | | Rs:281060/- |
| 11 | RCC work i/c labour and material except the cost of steel reinforcement and its labour for bending includes all kinds of forms mould lifting shuttering curing rendering and screening finishing of exposed surface i/c screening and washing of shingle (a) RCC work in roofs slabs beams columns rafts lintels and other structural members laid in situ or pre-cast laid in position complete in all respect (I) Ratio 1:2:4 90lbs cement 2" cft sand 4 cft shingle 1/8" to ¼" gauge (GSI No.6 P-15). | | | | |
| | 590.00 Sft @Rs:337/00 | P Cft | | | Rs:198830/- |
| 12 | fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making jointing and fastening i/c removal or rust for bare (GSI No.7,P-17). | | | | |
| | 23.70 Cwt @Rs:5001/70 | P.Cwt | | | Rs 118540/- |
| 13. | Construction of Standerd open drains cunette block of Cement Concrete (1:2:4) in sito (PHSI No-DP-18) . | | | | |
| | TYPE-A 500.0Rft @Rs:94/- | PRft | | | Rs:47000/- |
| | TYPE-B 200.0Rft @Rs:174/- | PRft | | | Rs:34800/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

| | | | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|----------------------------|
| 14. | Barrow pit Excavation undressed lead up to 100 Feet (GSI No.3P-1) | | | | |
| | 15000.0 Rft @Rs:2117/50/- | P%0Cft | | | Rs:31763/- |
| 15. | Extra for every 50 ft Additional Lead or part thereof .(GSI No-8 P-2) | | | | |
| | Total Lead = $2000-100=\frac{1900}{50}=38.0$ Lead | | | | |
| | 15000.0 Cft @Rs:3829/64 | P%0Cft | | | Rs:57445/- |
| 16. | Making and fixing steel grated door with 1/2" thick sheeting including Angle iron fram 2x2' 3"/8" squair bars 4" c/c with laveling locking arragement (GSI No:24 P- 92) | | | | |
| | 50.00 Sft @Rs: 726/72 | P. Sft | | | Rs:36336/- |
| 17 | White Washing (3 Coat) (GSI No-26 P-54) | | | | |
| | 5635.00 Sft @Rs: 829/50 | P% Sft | | | Rs:46726/- |
| 18. | Color Wash (2 Coats) (GSI No-25 P-54). | | | | |
| | 5600.0 Cft @Rs:859/90 | P% Sft | | | Rs:46245/- |
| 19 | <u>Painting Old surface.</u> Preparing surface and painting of doors and window any type i/c edge (GSI No.4/c4 a P-58). | | | | |
| | 112.0 Sft @Rs:1160/06 | P%Sft | | | Rs:1299/- |
| 20 | <u>Painting New surface.</u> (3 Coats) | | | | |
| | 100.0 Sft @Rs:2116/41 | P%Sft | | | Rs:2116/- |
| | | | | | ----- |
| | | | | | Total: Rs:1304418/- |

| S No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|-------|--------------------------------------------|----------|------|------|--------|
|-------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|-------------------|----------------|----------------|-----------|
| 1 | Oxidation Pond | 766483/- | -- | 766483/- |
| 2 | Rising main | 1981808/- | -- | 1981808/- |
| 3 | Pumping Machinery | 177723/- | 529000/- | 706723/- |
| 4 | Renovation Work | 1304418/- | -- | 1304418/- |
| | Total | 4230432/- | 529000/- | 4759432/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

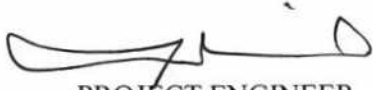
Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- REHABILITATION OF DRAINAGE SCHEME
PHULADYOON DISTRICT MIRPURKHAS.

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-3000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF DRAINAGE SCHEME PHULADYOON DISTRICT MIRPURKHAS. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs:14.550 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1.:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: REHABILITATION FOR DRAINAGE SCHEME
PHULADYOON DISTRICT MIRPURKHAS.

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|----------|----------------|
| <u>Part (A) Renovation Work</u> | | | | | |
| | 1) Dismantalling cement concrete plain (1.4.8) (GSI NO. 19 P-11.) Ratio (1.2.4) | 625.00 | Cft @ Rs. 3327.50 | P% Cft | 20797.0 |
| | 2) Dismantalling brick work in lime or cement sand mortar (GSI NO. 13 P-11.) Qty: | 600.00 | Cft @ Rs. 1285.63 | P% Cft | Rs. 7714.00 |
| | 3) Earth work excavation in ashes, sand soft soil or silt clearance undressed lead upto 50'ft (GSI:No: 2 P-1) Qty: | 5750.0 | Cft @ Rs. 1664.00 | P% o Cft | Rs. 9568.00 |
| | 4) Extra for slush or daldal i/c dewatering (GSI:No: 16 P-02) Qty: | 5750.0 | Cft @ Rs. 2420.00 | P% o Cft | Rs. 13915.00 |
| | 5) Extra for Wet earth work (GSI:No: 15 P-3) Qty: | 5750.0 | Cft @ Rs. 1058.75 | P% o Cft | Rs. 6088.00 |
| | 6) Extra lead for 03 miles (Schd. Carraige) Qty: | 5750.0 | Cft @ Rs. 579.41 | P% o Cft | Rs. 3332.00 |
| | 7) Excavation in foundation of building bridges and other structure i/c daga beilling dressing refilling around the structure with excavation earth watering ramming lift upto 5ft and laed upto one chain (In ordinary Soil) etc (GSINo:18(b)P/4) Qty: | 17529.00 | Cft @ Rs. 3176.25 | P%o Cft | Rs. 55676.00 |
| | 8) Cement concrete plain i/c placing compacting finishing and curring complete i/c screening and washing of stone aggregate without shuttering Ratio (1:4:8) (GSINo:5P/17) Qty: | 1746.00 | Cft @ Rs. 11288.75 | P% Cft | Rs. 197102.00 |
| | 9) Pacca brick work in foundation and plinth in cement sand mortar (1:6) Ratio (GSINo:04/EP-21) Qty: | 9443.00 | Cft @ Rs. 11948.36 | P% Cft | Rs. 1128284.00 |

10) Construction of standered open drain cenettee block of C.C 1:2:4 in stiu to the design profiles i/c cost of moduls as per drawing i/c supplying floating cost of cement 1/3" thick to the exposed surface finished smooth curring etc complete as per detailed drawing (PHSINo:D-II, P-58)

| | | | | | | |
|------------------|---------|-----|-------|-------|-------|--------------|
| Type-I Drains | | | | | | |
| Qty: | 1000.00 | Rft | @ Rs. | 94.00 | P.Rft | Rs. 94000.00 |

| | | | | | | |
|-------------------|---------|-----|-------|--------|--------|---------------|
| Type-II Drains | | | | | | |
| Qty: | 1500.00 | Rft | @ Rs. | 174.00 | P. Rft | Rs. 261000.00 |

11) Cement plaster (1:4) upto 12'ft height 1/2"thick (GSINo:P52)

| | | | | | | |
|------|----------|-----|-------|---------|--------|---------------|
| Qty: | 14185.00 | Sft | @ Rs. | 2283.93 | P% Sft | Rs. 323975.00 |
|------|----------|-----|-------|---------|--------|---------------|

12) RCC work i/c all labour and material expect the cost of steel reinforcement and its labour for bending and binding which will be paid seperately. This rates also i/c all kinds forms moduls lifitting shuttering curring rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C.C work in roof slab beams columns rafts lintles and others structural member laid in site or precast laid in psition in all respect ratio 1:2:4: 90 lbs cement 2 Cft sand 4 Cft shingle 1/8" to 1/4" gauge etc (GSINo:5(e)P/16)

| | | | | | | |
|------|---------|-----|-------|--------|--------|---------------|
| Qty: | 1149.00 | Cft | @ Rs. | 337.00 | P. Cft | Rs. 387213.00 |
|------|---------|-----|-------|--------|--------|---------------|

13) Fabrication of mild steel reinforcement for c.c i/c cutting bending playing in position making joint and fasting i/c cost of binding wire also i/c removal of rust from bars etc (GSINo: 7(A)P-17)

| | | | | | | |
|------|-------|-----|-------|---------|--------|---------------|
| Qty: | 46.17 | Cwt | @ Rs. | 5001.70 | P. Cwt | Rs. 230903.00 |
|------|-------|-----|-------|---------|--------|---------------|

14) Making & fixing steel grated door with 1/16" thick sheeting i/c angle iron frame 2"x2"x3/8" & 3/4"sq:bars 4"centre to centre with locking arrangement(GSI No:24, P-92).

| | | | | | | |
|------|------|-----|-----|--------|-------|--------------|
| Qty: | 72.0 | Sft | @ | 726.72 | P Sft | Rs. 52324.00 |
| | | | Rs. | | | |

| | |
|-------|----------------|
| Total | Rs. 2730477.00 |
|-------|----------------|

Part (B) RCC Sewer

1) Dismantalling & removing road metalling (GSI NO. 19 P-11.)

| | | | | | | |
|-----|---------|-----|-------|--------|--------|---------|
| Qty | 2290.00 | Cft | @ Rs. | 605.00 | P% Cft | 13855.0 |
|-----|---------|-----|-------|--------|--------|---------|

2) Excavation for pipe lines in trenches and pits in soft soil i/c trimming and dressing side to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within in one chain as directed by Engineer In charge. Providing fence guards lights flegs and temporary crossing for none vehicular traffic where ever required lift upto 5' ft (1.52m) and lead up to one chain (30.50m) (PHSI No. 1 P-60).

| | | | | | | |
|------|---------|-----|-------|---------|---------|--------------|
| Qty: | 4079.00 | Cft | @ Rs. | 3600.00 | P%o Cft | Rs. 14684.00 |
|------|---------|-----|-------|---------|---------|--------------|

3) Excavation for pipe lines in trenches and pits in weight soil clay or mud i/c trimming and dressing side to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within in one chain as directed by Engineer In charge. Providing fence guards lights flegs and temporary crossing for none vehicular traffic where ever required lift upto 5' ft (1.52m) and lead up to one chain (30.50m) (PHSI No. 14 P-66).

| | | | | | | | |
|------|---------|-----|-------|---------|---------|-----|----------|
| Qty: | 4415.00 | Cft | @ Rs. | 5400.00 | P%o Cft | Rs. | 23841.00 |
|------|---------|-----|-------|---------|---------|-----|----------|

4) Excavation for pipe lines in slushy or daldaly soil i/c trimming and dressing side to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within in one chain as directed by Engineer In charge. Providing fence guards lights flegs and temporary crossing for none vehicular traffic where ever required lift upto 5' ft (1.52m) and lead up to one chain (30.50m) (PHSI No. 14 P-66).

| | | | | | | | |
|------|---------|-----|-------|----------|---------|-----|----------|
| Qty: | 2256.00 | Cft | @ Rs. | 10800.00 | P%o Cft | Rs. | 24365.00 |
|------|---------|-----|-------|----------|---------|-----|----------|

5) Providing the pipes of ASTM C-76-62 TC 76-70 Class 'II' well-B & fixing in trench i/c cutting, fitting and jointing with rubber rings i/c testing with water to the specified pressure. (P.H.S.I.No: 01P-17)

| | | | | | | | |
|-----|--------|-----|-------|--------|-------|-----|-----------|
| Qty | 550.00 | Rft | @ Rs. | 515.00 | P.Rft | Rs. | 283250.00 |
|-----|--------|-----|-------|--------|-------|-----|-----------|

6) Bailing or pumping out sub Soil water during excavation conereting cost nin situ concrete or massonary work in foundation etc (GSINo: 18 P52)

| | | | | | | | |
|------|---------|-----|-------|--------|--------|-----|----------|
| Qty: | 2256.00 | Cft | @ Rs. | 543.00 | P% Cft | Rs. | 12250.00 |
|------|---------|-----|-------|--------|--------|-----|----------|

7) Cement concrete plain i/c placing compacting finishing and curring complete i/c screening and washing of stone aggregate without shuttering Ratio (1:4:8) (GSINo:5P/17)

| | | | | | | | |
|-------|--------|-----|-------|----------|--------|-----|----------|
| 1.4.8 | 182.00 | Cft | @ Rs. | 11288.75 | P% Cft | Rs. | 20546.00 |
|-------|--------|-----|-------|----------|--------|-----|----------|

| | | | | | | | |
|-------|--------|-----|-------|----------|--------|-----|----------|
| 1.3.6 | 136.00 | Cft | @ Rs. | 12595.00 | P% Cft | Rs. | 17129.00 |
|-------|--------|-----|-------|----------|--------|-----|----------|

8) Providing & Fixing dividing open tembering to trenches for depth upto 10 ft

| | | | | | | | |
|------|---------|-----|-------|---------|-------|-----|----------|
| Qty: | 1100.00 | Sft | @ Rs. | 8340.00 | P%Sft | Rs. | 91740.00 |
|------|---------|-----|-------|---------|-------|-----|----------|

9) RCC work i/c all labour and material expect the cost of steel reinforcement and its labour for bending and binding which will be paid seperately. This rates also i/c all kinds forms moduls lifitting shuttering curring rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C.C work in roof slab beams columns rafts lintles and others structural member laid in site or precast laid in psition in all respect ratio 1:2:4: 90 lbs cement 2 Cft sand 4 Cft shingle 1/8" to 1/4" gauge etc (GSINo:5(e)P/16)

| | | | | | | | |
|------|--------|-----|-------|--------|--------|-----|-----------|
| Qty: | 819.00 | Cft | @ Rs. | 337.00 | P. Cft | Rs. | 276003.00 |
|------|--------|-----|-------|--------|--------|-----|-----------|

10) Fabrication of mild steel reinforcement for c.c i/c cutting bending playing in position making joint and fasting i/c cost of binding wire also i/c removal of rust from bars etc (GSINo: 7(A)P-17)

Qty: 40.219 Cwt @ Rs. 5001.70 P. Cwt Rs. 201163.00

11) Refilling the excavated stuff in 6" thick layers i/c watering and ramming to full compaction etc complete. (PHSI No: 24,P-53)

Qty: 9675.0 Cft @ Rs. 2760.00 P%o Cft Rs. 26703.00

12) Providing & Fixing C.I.man hole cover (PSINo: 1 P 23)

Qty: 1485.00 Sft @ Rs. 85.00 P.Cwt Rs. 126225.00

13) Extra for every 50 ft lead or part thereof (GSI NO. 8 P-02)

Qty: 2290.0 Cft @ Rs. 3930.42 P% o Cft Rs. 9001.00

14) Cement concrete brick or stone ballast 1½ "to 2" gauge(1:4:8) (GSI: 4 (c) P-17).

Qty: 635.00 Cft @ Rs. 9416.28 P% Cft Rs. 59793.00

15). Cement concrete plain i/c placing compacting finishing and curing complete (i/c screening washing of stone aggregate w/o shuttering (1:2:4)(GSI: 5,(i)P/-18).

Qty: 481.00 Cft @ Rs. 14429.25 P% Cft Rs. 69405.00

16) Manufacturing & Supply RCC man holes cover casibg 1.2.4 ration 4 dia deep and cement rainforcement with 1/2 dia for steel bars At 3 to 1/4 thick 3 deep plate i/c caring staking and transportation At site of work (R.A.Approved)

Qty: 11.00 Nos @ Rs. 1881.18 Each Rs. 20693.00

Rs. **1290646.00**

Part C Rising Main

1) Provinding PVC pressure pipes and comet joints of class "B" and fixing in trenches IC cutting fting and jointing with rebble ring i/c testing with water to a head of 122 meter or 400ft, (R.A Attached)

Qty: 4 dia 24500 Rft @ Rs 137.00 P Rft Rs. 3356500.00

2) Excavation of pipe line in trenches and pits i/c trimming and dressing side to true alignment and shape leveling of beds of trenches correct level i/c cutting joint holes and disposal of surplus earth within in one chain as directed by gineer In charge i/c providing fence guards light fleg and wherever required lift upto 5' ft and lead up to one chain (PHSI No.1 P-46).

Qty: 171500.00 Cft @ Rs. 3600.00 P%o Cft Rs. 617400.00

3) Cost iron speacial for A.C pressure pipes (M.R)

i) Bend 90 4" Dia

| | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|-----|---------|----------|-----|-------------------|
| Qty: | 5.0 | Nos | @ | 893.75 | Each | Rs. | 4469.00 |
| | | | Rs. | | | | |
| <u>ii) Bend 45 4" Dia</u> | | | | | | | |
| Qty: | 2.0 | Nos | @ | 731.25 | Each | Rs. | 1463.00 |
| | | | Rs. | | | | |
| 4) Making Joint to PVC speacial fitting i/c laying of the required Dia meter and testing the joints along with asbestos cement pressure pipe line to the specified pressure and making good to all leaky joints ect complete. (PSHI No: 1,P-80) | | | | | | | |
| 4 dia Qty: | 7.00 | Joint | @ | 70.00 | P.Joint | Rs. | 490.00 |
| | | | Rs. | | | | |
| 5) Manufacturing and installing 6 dia M.S pipe made out of M.S sheet of 3/16 thick i/c cutting drilling holes and welding of flange with M,S pipe etc | | | | | | | |
| 4 dia | 100.00 | Rft | @ | 506.60 | Rft | Rs. | 50660.00 |
| | | | Rs. | | | | |
| 6) Manufacturing and installing M.S flange 3 & 4 made out M.s sheet 3/8 thick etc complete | | | | | | | |
| 4 dia | 20.00 | Nos | @ | 596.75 | Nos | Rs. | 11935.00 |
| | | | Rs. | | | | |
| 7) C.I Bend with flanged ends with holes i/c turining & facing of flanhges f for all size | | | | | | | |
| 4 dia Qty: | 42.00 | Kg | @ | 120.00 | P.Kg | Rs. | 5040.00 |
| | | | Rs. | | | | |
| 8) Jointing C.I/M.S flanged pipe & special flanged & inside trenches i/c supplying rubber packing of required thickness nuts & bolts with washers etc & other tools required for jointing to the specified pressure etc complete. (PHSI.NO.1, P/35) | | | | | | | |
| 4 dia Qty: | 24.00 | Joint | @ | 513.00 | P.Joint | Rs. | 12312.00 |
| | | | Rs. | | | | |
| 9) Refilling the excavated stuff in 6" thick layers i/c watering and ramming to full compaction etc complete. (PHSI No: 24,P-53) | | | | | | | |
| Qty: | 154350.00 | Cft | @ | 2760.00 | P% o Cft | Rs. | 426006.00 |
| | | | Rs. | | | | |
| | | | | | | | 4486275.00 |

Part (D) Oxidation Ponds

1) Excavation for tank and reservoir in soft soil i/c trimming and dressing sides to true alignment design section/profile and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" lyres for constriction of banks and dressing and disposal of surplus excavated earth within one chain as directed by engineer In charge i/c providing fence guards flag wherever required lift upto 5 ft and lead upto one chain (30.50mm) (PHSI No: 1 P-49).

| | | | | | | | |
|------|----------|-----|-----|---------|----------|-----|----------|
| Qty: | 11421.00 | Cft | @ | 3000.00 | P% o Cft | Rs. | 34263.00 |
| | | | Rs. | | | | |

2) Excavation for tank and reservoir in wet soil clay or mud i/c trimming and dressing sides to true alignment design/profile section/profile and shape leveling of beds of tank in 6" correct level in grade i/c laying of earth in 6" lyres for constriction of base and dressing disposal of surplus excavated earth within one chain as directed by engineer In charge i/c providing fence guards flag wherever required lift upto 5 ft (1.52mm) and lead upto one chain (30.50mm) (PHSI/14/P-52)

| | | | | | | | |
|------|--------|-----|---|---------|----------|-----|---------|
| Qty: | 1152.0 | Cft | @ | 3600.00 | P% o Cft | Rs. | 4147.00 |
| | | | | Rs. | | | |

3) Providing the pipes of ASTM C-76-62 TC 76-70 Class 'II' well-B & fixing in trench i/c cutting, fitting and jointing with rubber rings i/c testing with water to the specified pressure. (P.H.S.I.No: 11P-18)

| | | | | | | | |
|-------------|--------|-----|---|--------|------|-----|----------|
| 12 dia Qty: | 128.00 | Rft | @ | 412.00 | P.Kg | Rs. | 52736.00 |
| | | | | Rs. | | | |

4) Refilling the excavated stuff in 6" thick layers i/c watering and ramming to full compaction etc complete. (PHSI No: 24,P-53)

| | | | | | | | |
|------|--------|-----|---|---------|----------|-----|---------|
| Qty: | 1037.0 | Cft | @ | 2760.00 | P% o Cft | Rs. | 2862.00 |
| | | | | Rs. | | | |

5) Earth work compaction by shape foot bRoller & Power Roller with operation moisture content (a) for 95-100% modified AASHO Density

*Sch. Of Highy work

| | | | | | | | |
|------|----------|-----|---|---------|----------|-----|-----------|
| Qty: | 35578.00 | Cft | @ | 4500.00 | P% o Cft | Rs. | 160101.00 |
| | | | | Rs. | | | |

6). Cement concrete plain i/c placing compacting finishing and curing complete (i/c screening washing of stone aggregate w/o shuttering (1:4:8)(GSI: 5,(i)P/-18).

| | | | | | | | |
|------|--------|-----|---|----------|--------|-----|----------|
| Qty: | 454.00 | Cft | @ | 11288.75 | P% Cft | Rs. | 51251.00 |
| | | | | Rs. | | | |

7) RCC work i/c all labour and material expect the cost of steel reinforcement and its labour for bending and binding which will be paid seperately. This rates also i/c all kinds forms moduls lifitting shuttering curring rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C.C work in roof slab beams columns rafts lintles and others structural member laid in site or precast laid in psition in all respect ratio 1:2:4: 90 lbs cement 2 Cft sand 4 Cft shingle 1/8" to 1/4" gauge etc (GSINo:5(e)P/16)

| | | | | | | | |
|------|---------|-----|-------|--------|--------|-----|-----------|
| Qty: | 1095.00 | Cft | @ Rs. | 337.00 | P. Cft | Rs. | 369015.00 |
|------|---------|-----|-------|--------|--------|-----|-----------|

8) Fabrication of mild steel reinforcement for c.c i/c cutting bending playing in position making joint and fasting i/c cost of binding wire also i/c removal of rust from bars etc (GSINo: 7(A)P-17)

| | | | | | | | |
|------|--------|-----|-------|---------|--------|-----|-----------|
| Qty: | 43.996 | Cwt | @ Rs. | 5001.70 | P. Cwt | Rs. | 220055.00 |
|------|--------|-----|-------|---------|--------|-----|-----------|

| | | | | | | | |
|--|--|--|--|--|-------|-----|------------------|
| | | | | | Total | Rs. | 894430.00 |
|--|--|--|--|--|-------|-----|------------------|

Part (E) Pumping Machinery

1) Supplying & installing in position i/c transportation to site of work at Rural Drainage Scheme Phuladiyoon pumping set of 2950 RPM (Siemens) made 10 BHP Electric motor 3 phase 50 cycle 400/420 volts with centrifugal, pump type ETA 50-160 size 2 1/2x2 mounted on commons steel frame on base plate Capable of discharge 95 GPM against the required head of 100 ft i/c installed on cement concrete ratio (1.2.4) M.S nuts bolts of 5/8 dia to be embedded in cement concrete foundation providing fixing MCU star delta strater (Siemens made (made and providing internal electric wiring for main switch 3 7/100 1 dia PVC insulated wire 660 volts graade (i) buried on the ground at depth of 3.7 mm * 12 ft(as per Pak PWD secification and testing pumping set against the required head for 72 hours etc complete R.A.Attached)

| | | | | | | | |
|--------|------|------|-----|-----------|-------|-----|------------|
| 10 BHP | 2.00 | Sets | @ | 1103200.0 | P.Set | Rs. | 2206400.00 |
| | | | Rs. | | | | |

2) Manufacturing and installing 6 dia M.S pipe made out of M.S sheet of 3/16 thick i/c cutting drilling holes and welding of flange with M,S pipe etc

| | | | | | | | |
|----------------|-------|-----|-----|--------|-----|-----|----------|
| Suction 4 dia | 42.00 | Rft | @ | 506.60 | Rft | Rs. | 21277.00 |
| | | | Rs. | | | | |
| Delivery 4 dia | 20.00 | Rft | @ | 506.60 | Rft | Rs. | 10132.00 |
| | | | Rs. | | | | |

3) Manufacturing supplying M.S flange of different dia made out of M.S sheet of 3/8 thick i/c cutting drilling holes and welding of flange with M,S pipe etc

| | | | | | | | |
|------------|-------|----|-----|--------|------|-----|---------|
| 4 dia Qty: | 18.00 | No | @ | 500.89 | Each | Rs. | 9016.00 |
| | | | Rs. | | | | |

4) C.I Sluice Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/) M.R)

| | | | | | | | |
|------------|------|-----|-----|---------|------|-----|---------|
| 4 dia Qty: | 2.00 | Nos | @ | 4290.00 | Each | Rs. | 8580.00 |
| | | | Rs. | | | | |

5) C.I Reflex Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/ 10) M.R)

| | | | | | | | |
|------------|------|-----|-----|---------|------|-----|---------|
| 4 dia Qty: | 2.00 | Nos | @ | 1706.25 | Each | Rs. | 3413.00 |
| | | | Rs. | | | | |

6) C.I Foot Valve heavy patterns test pressure 300 lbs/sq inch (PHSI NO. 6 P/ 10) M.R)

| | | | | | | | |
|------------|------|-----|-----|--------|------|-----|---------|
| 4 dia Qty: | 2.00 | Nos | @ | 893.75 | Each | Rs. | 1788.00 |
| | | | Rs. | | | | |

7) C.I bend with flanged ends with holes i/c turning and facing of flanges for all size. (PHSI No. 08 P-98).

| | | | | | | | |
|------------|-------|-----|-----|--------|------|-----|---------|
| 4 dia Qty: | 52.50 | Kgs | @ | 120.00 | P.Kg | Rs. | 6300.00 |
| | | | Rs. | | | | |

8) Supplying C.I Tapers flat bottomed or central tapered flanged ends with holes i/c turning and facing turning and facing of flanges for all size.(PHSI No.09 P-11).

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|-------------------|----------------|----------------|------------|
| 1 | Renovation work | 2730477/- | -- | 2730477/- |
| 2 | RCC Sewer | 1290646/- | -- | 1290646/- |
| 3 | Rising main | 4486275/- | -- | 4486275/- |
| 4 | Oxidation Pond | 894430/- | -- | 894430/- |
| 5 | Pumping Machinery | 73315/- | 2206400/- | 2279715/- |
| | Total | 9475143/- | 2206400/- | 11681543/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS



PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- **REHABILITATION OF RURAL WATER SUPPLY**
SCHYEME GUJJO DISTRICT THATTA

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-2000/-


STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF RURAL WATER SUPPLY SCHEME GUJJO DISTRICT THATTA. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 4.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1.:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: REHABILITATION FOR RURAL WATER SUPPLY
SCHEME GUJJO DISTRICT THATTA.

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

GROUP: "A" DELIVERY MAIN 6" DIA

- | | | | | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|--|--------------|
| 1. | Excavation for Pipe Line.in trenches and pits in Soft Soil by hammering and chiseling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape leveling of trencher to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer incharge providing fence guards. Lift. Flags and temporary crossing for non vehicular traffic wherever required lift upto 5 ft (1.52) and lead upto one chain (30.5m) | | | | |
| | <u>6" dia</u> 30000 Cft @Rs: 3600/- | | P:%0 Cft | | Rs: 108000/- |
| 2. | Providing Laying P.V.C Pressure Pipe of Class "B" (equivalent make) i/c Cutting Fitting & Jointing with Z joint Testing Water etc complete (PHSINO.E-I P/22) | | | | |
| | <u>6" dia</u> 4000 Rft @Rs: 262/- | | P: Rft | | Rs:1048000/- |
| 3. | Supplying PVC Special for PVC Pressure Pipe B Class (SMINO.1 P/25) | | | | |
| | <u>6"dia Bend 90⁰</u> 6.00 Nos @ Rs. 1913/- | | Each | | Rs.11478/- |
| | <u>Reducer 6" x 4" dia</u> 4.00 Nos @ Rs. 1866/- | | Each | | Rs.7464/- |
| | <u>Short Piece 6" dia</u> 6.00 Nos @ Rs. 618/75 | | Each | | Rs.3712/- |
| | <u>Air valve double acting (Local)</u> 1.00 No @ Rs. 4000/- | | Each | | Rs.4000/- |
| 4. | C.I Sluice valve heavy pattern. (Test pressure 21.0 kg/sq cm or 300 lb/sq.inch imported. 6"dia 3 Nos. @ Rs.9360/- | | | | |
| | | | Each | | Rs.28080/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

5. Reffling excavated the stuff in trenches 6" thick layers i/c watering ramming to full compaction etc complete (P.H.S.NO: 324/ P54)

6"dia
27000 Cft @ Rs.2760/- P%0 Cft. Rs.74520/-

6. Providing chamber 21/2x21/2 (750x750 mm) inside dimension 4 1/2" (1372mm) deepas per approved design sluice valve 3" to 12" with 18" (457mm) dia inside cost of iron cover and fame (wt: 1cwt3sq) fixed in RCC (1:2:4) 102 mm) thick with 5 lbs steel per cft 9" 299mm thick brick masonry wall set in (1:6) cement mortar 6" (1152mm) thick c.c (1:3:6) in foundation cement plaster (1:30 total insid wall surface and to top i/c p/f m.s foot rest at everyone foot beyond 2 1/2 ft depth curing excavation back filling and disposal of surplus earth etc complete(PHS I No: 1 P/40)

6"dia
2 Nos. @ Rs. 18820/- Each Rs.37640/-

Total Rs: 1322984/-

GROUP: "B" BRANCH MAIN

1. Excavation for pipe lines in trenches and pits in Soft Soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags and temporary crossing for non-vehicular traffic wherever required lift upto 5 ft and lead upto one chain (P.H.S.I. No. 5 P/38)

78000 Cft @ Rs. 3600/- P%0Cft Rs. 280800/-

2. Providing P.V.C pipes of class "B" (Delease) fixing in trench i/c cutting fitting and jointing with "Z" joint with one rubber rings i/c testing with water to head of 61 meter or 200 Rft etc (P.H.S.I No. 1 P/21).

4"dia
5000 Rft @ Rs. 137/- P/Rft. Rs. 685000/-

3"dia
8000 Rft @ Rs. 90/- P/Rft. Rs. 720000/-

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|----------|-------------|
| 3. | Supply C.I. Sluice valve heavy pattern test pressure 21 Kg/sq Cum or 150 lbs/inch (N.S). (S.M.I No. 1 P:No.) | | | | |
| | 4"dia 4 Nos | @ Rs. 5460/- | | Each | Rs. 21840/- |
| | 3"dia 8 Nos | @ Rs. 4290/- | | Each | Rs. 34320/- |
| 4. | Supplying PVC Special for P.V.C Pressure Pipe "B" Class "Z" joint standard weight for A.C.I.L (SMINo.1 P/25). | | | | |
| | <u>3" DIA C.I Bend 90⁰</u> 8 Nos. | @ Rs. 731/- | | Each | Rs. 5848/- |
| | <u>4" DIA C.I Bend 90⁰</u> 6 Nos. | @ Rs. 956/- | | Each | Rs. 5736/- |
| | <u>3"DIA C.I Bend 45⁰</u> 4 Nos. | @ Rs. 731/- | | Each | Rs. 2924/- |
| | <u>4"DIA C.I Bend 45⁰</u> 4 Nos. | @ Rs. 956/- | | Each | Rs. 3824/- |
| | <u>Tee un-equal 4 x 3</u> 6 Nos. | @ Rs. 1181/- | | Each | Rs. 7086/- |
| | <u>Reducer 4' x 3'.</u> 2 Nos. | @ Rs. 1112/50 | | Each | Rs. 2225/- |
| | <u>C.I Tail Piece.</u> 3" dia 6 Nos. | @ Rs. 375/- | | Each | Rs. 2250/- |
| | 4" dia 4 Nos. | @ Rs. 487/50 | | Each | Rs. 1950/- |
| 5. | Supplying Air valve double acting (P.H.S.I.No. 8 P/20) | | | | |
| | 4" DIA 1 No. | @ Rs. 4000/- | | Each | Rs. 8000/- |
| 6. | Making joint P.V.C Special Fitting i/c laying of the required dia meter and testing to the joint along with the P.V.C Pressure Pipe Line to the specified pressure and making good to all Leakey joint. | | | | |
| | 4" DIA 12 Joints | @ Rs. 70/- | | P/ Jonts | Rs.84/- |
| | 3" DIA 8 Joints | @ Rs. 59/- | | P/ Jonts | Rs. 472/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|------|---------------------------|
| 7. | Jointing C.I M/S Flanged Pipe and specials flanged and inside at trenches i/c supplying rubber packing of the required thickness nuts and bolts with washer etc and other tools required for jointing and testing the joints to the specified pressure etc complete. (P.H.S.I. No: 1 P/27) | | | | |
| | 3" DIA 4 Joints @ Rs: 499/- | | P/ Joints | | Rs: 1996/- |
| | 4" DIA 4 Joints @ Rs: 513/- | | P/ Joints | | Rs: 2052/- |
| 8. | Refilling the excavated staff in trenches in 6" thick layers i/c watering and ramming to full compaction etc complete (P.H.S.I No. 22 P/47) | | | | |
| | 70200 Cft @ Rs. 2760/- | | P%0 Cft | | Rs. 193752/- |
| 9. | Providing Chamber 2-1/3' x 11/2 (711 x 457 mm) insides dimension 4 1/2" (1372 mm) deep as approved design for Sluice valve 3" to 12" dia with 18" (457 mm) dia inside C.I. Cover and frame (wt = 1 cwr 3 sq) fixed in RCC 1:2:4 slab 4" (102 mm) walls set in 1:6 cement motor 6" (152 mm) brick masonry walls set in 1:6 cement motor 6" (152 mm) thick c.c. 1:3:6 in foundation (25 mm) thick cement 1:2:4 flooring 1/2" (152 mm) thick cement plaster 1:3 to all inside wall surface and top i/c providing and fixing M.S foot rest at every one foot beyond 2-1/2ft depth curing excavation back filling and disposal of surplus etc complete. (P.H.S.I. No: 1 P/34). | | | | |
| | 04 Nos. @ Rs. 18820/- | | Each | | Rs. 75280/- |
| | Cartage of PVC Pipe from Karachi (Lead from 43 Miles) | | | | |
| | 3" dia 8000 Rft. @ Rs. 31/10 | | P% Rft | | Rs.2480/- |
| | 4" dia 5000 Rft. @ Rs. 52/21 | | P% Rft | | Rs.2610/- |
| | | | | | Total Rs: 2054199, |

GROUP: "C" PUMP HOUSE

| | | | | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|--|-----------|
| 1. | Excavation in foundation of building bridges and others structure i/c Dag Belling Dressing refilling around the structure with excavated earth watering ramming lift upto 5 Ft and lead upto one chain (ordinary Soil) (G.S.I No: 18/B P/5). | | | | |
| | 245.00 Cft @ Rs. 3176/25 | | P% 0 Cft | | Rs. 778/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|---------|-------------|
| 2. | Cement Concrete brick or stone ballast 1.1/2" to 2" Gauge Ratio 1:4:8 etc (G.S.I No: 4/B P/16) | 106.00 Cft | @ Rs.11288/75 | P % Cft | Rs.11966/- |
| 3. | Coursed Ruble Masonry including hammer dressing with cement sand mortar sand Ratio 1:6. (G.S.I.NO: 2 P/32) | 257.00 Cft | @ Rs.25321/- | P% Cft | Rs. 65075/- |
| 4. | D.P.C with cement sand shingle concrete ratio 1:2:4 and cost of asphaltic mixture (G.S.I No. 98 P/102) 2" Thick | 73.00 Sft | @ Rs. 3912/85 | P% Sft | Rs. 2856/- |
| 5. | Coursed Ruble Masonry including hammer dressing with cement sand mortar sand Ratio 1:6. (G.S.I.NO: 4 P/33) | 562.81 Cft | @ Rs.26288/46 | P% Cft | Rs.147954/- |
| 6. | R.C.C work i.e. all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rates also i.e. all kinds forms modules lifting shutting curing remarking and finishing the exposed surface i.e. screening and washing of shingle (a) R.C. work in roof slab beams columns rafts lintel and other structural member laid in Situ or pre-cast laid in position in the respect ratio 1:2:4 etc complete (G.S.I No. 6/a P/18) | 108.60 Cft | @ Rs. 337/- | P: Cft | Rs. 36598/- |
| 7. | Fabrication of mild steel reinforcement for cement concrete i.e. cutting bending laying in position making joints & fastening i.e. cost of binding wire also i.e. removal of rust from bars (G.S.I No. 7 ii(a) P/19). (Using Bors) | 4.36 Cwt | @ Rs. 5001/70 | P: Cwt | Rs.21807/- |
| 8. | Making and fixing steel door with 1/16" thick sheeting i/e. angle iron frame 2" x 2" x 3/8" and 3/4" square bars 4" center to center with looking arrangement (G.S.I No. 24 P/97) | 28.00 Sft | @ Rs.726/72 | P: Sft | Rs. 20348/- |
| 9. | Fabrication of heavy steel work with angles tees flate iron round iron and steel iron for making tresses girders concrete i/c cutting revorting handling assembling (G.S.I.No. 2 P/96) | 2.03 Cwt | @ Rs: 4928/49 | P:Cwt | Rs:10005/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------|----------|--------------------------|
| 10. | Supplying and fixing iron steel grill of 3/4" to 1/4" flat iron of approved desion i/c painting 3 coats etc complete weight not less them 3:7 P: & foot of fen steel girds. (G.S.I.No. 24 P: 97) | 24 Sft | @ Rs: 180/50 | P:Sft | Rs: 4332/- |
| 11. | Providing and laying 2" thick topping cement concrete (1:2:4) i/c surface finishing and dividing in to panels 2" thick etc (G.S.I No. 16/c P/46). | 120.00 Sft | @ Rs. 3275/50 | P: % Sft | Rs. 3931/- |
| 12. | Cement plaster (1:6) upto 20'ft height 1/2" thick (G.S.I.NO: 13/b P/57) | 399.00 Sft | @ Rs: 2206/60 | P%Sft | Rs:8804/- |
| | <u>Plaster 1:4 1/2" Thick</u> | 399.00 Sft | @ Rs: 2197/52 | P%Sft | Rs:8768/- |
| 13. | Pointing flush on stone work in (Raised) cement mortar (1:3) | 584.90 Sft | @ Rs: 1758/08 | P%Sft | Rs: 10283/- |
| 14. | <u>Pointing New Surface</u> Preparing surface and painting doors and windows and any type (i/c edges) (G.S.I No. 5/C P/76) | 104.00 Sft | @ Rs. 2116/41 | P% Sft | Rs. 2201/- |
| 15. | White Washing (G.S.I No. 26 P/54) (Three Coats) | a) Three Coats 120.00 Sft | @ Rs. 829/95 | P% Sft | Rs. 996/- |
| 16. | White Washing (G.S.I No. 26 P/54) (One Coat) | 399.00 Sft | @ Rs. 416/63 | P% Sft | Rs. 1662/ |
| 17. | Color Washing Two Coat (G.SI.NO: 25 P/55) | 983.90 Sft | @ RS: 859/90 | P%Sft | Rs: 8461/- |
| | | | | | ----- |
| | | | | | Total Rs:366825/- |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|---------------|----------------|----------------|-----------|
| 1 | Delivery main | 1322984/- | -- | 1322984/- |
| 2 | Branch main | 2054199/- | -- | 2054199/- |
| 3 | Pump House | 366825/- | -- | 366825/- |
| | Total | 3744008/- | -- | 3744008/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-


Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS


PROJECT ENGINEER
 Rehabilitation of Non-Functional
 Water Supply and Drainage Schemes
 In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./ 225 Dated 28-12-2017

Name of Work:- **REHABILITATION OF RURAL WATER SUPPLY**
SCHYEME HAJI NOOR MOHAMMAD THAHEEM
DISTRICT THATTA

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-3000/-

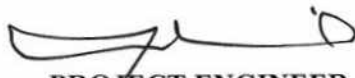
STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | REHABILITATION OF RURAL WATER SUPPLY SCHEME HAJI NOOR MOHAMMAD THAHEEM DISTRICT THATTA. |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 13.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 @ 1.:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi on 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: REHABILITATION OF RURAL WATER SUPPLY SCHEME VILLAGE HAJI NOOR MOHAMMAD THAHEEM DISTRICT THATTA

| Sr.No | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|------|------------|
| Group: "A" Repair of Storage Tank | | | | | |
| 1, | Earth work excavation in ashes, sand soft soil or sit clearance undressed lead upto 50 ft (G.S.I.NO: 2 P-NO:1) | | | | |
| | 66000 Cft @ Rs: 1663.75 | | P%0 Cft | | Rs: 109808 |
| 2, | earth work for slushy or deldal i/c dewatering. (G.S.I.NO 16 P-4) | | | | |
| | 66000 Cft @ Rs: 2420.00 | | P% Cft | | Rs: 159720 |
| 3, | Carriage of 100 Cft / 5 Tons of all material like stone (Lead 2 Miles) | | | | |
| | 66000 Cft @ Rs: 502.52 | | P% Cft | | Rs: 331663 |
| 4, | Dismantling lime stone masonry is lime or cement mortar (GSINo.3 P/09). | | | | |
| | 2760 Cft @ Rs: 907.50 | | P% Cft | | Rs: 25047 |
| 5, | Coursed rubble masonry i/c hammer dressing in cement sand mortar 1: 6 in super structure. (G.S.I.No: 4d (iii) P/ 27) | | | | |
| | 3840 Cft @ Rs: 25321 | | P% Cft | | Rs: 972326 |
| 6, | Cement Concrete brick or stone Ballast 1 1/2" to 2" gauge (ratio: 1:4:8) (G.S.I.NO:4/d P/No: 16) | | | | |
| | 7920 Cft @ Rs: 9416.28 | | P% Cft | | Rs: 745769 |
| 7, | Cement Concrete Plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio 1:2:4 etc complete (GSINo.5 P/15) | | | | |
| | 6000 Cft @ Rs: 14429.25 | | P% Cft | | Rs: 865755 |
| 8, | Removing of Cement or Lime Plaster (GSINo.53 P/13). | | | | |
| | 1610 Sft @ Rs: 121.00 | | P% Sft | | Rs: 1948 |
| 9, | Cement Plaster upto 12'ft height in Cement Sand Mortar (1:4) 3/4" thick (GSINo.11 c P/52) | | | | |
| | 3/4" Thick 7590.00 Sft @ Rs: 3016.75 | | P% Sft | | Rs: 228971 |

1/2" Thick

| | | | |
|-------------|---------------|--------|------------|
| 7590.00 Sft | @ Rs: 2283.93 | P% Sft | Rs: 173350 |
|-------------|---------------|--------|------------|

10, Pointing Flush on Stone work (Raised) in Cement Mortor (1:3) (GSINo.20 P/52).

| | | | |
|------------|---------------|---------|-----------|
| 584.00 Sft | @ Rs: 1758.08 | P:% Sft | Rs: 10267 |
|------------|---------------|---------|-----------|

| | |
|--------------|--------------------|
| Total | Rs: 3624625 |
|--------------|--------------------|

Group: "B" Delivery Main

- 1, Excavation for pipe line in trenches and pits in Soft Soil i/c trimming and dressing sides to true alignment and shape levelling of beds joints holes and disposal of surplus earth within one chain as directed by Engineer Incharge providing fence guards light flangs and temporary crossing for non-vehicular traffic wherever required lift upto 5'ft and lead upto one chain (PHSINo.3 P/61).

6" dia

| | | | |
|-----------|-----------------|---------|-----------|
| 15469 Cft | @ Rs: 3600.0 /- | P%0 Cft | Rs: 55688 |
|-----------|-----------------|---------|-----------|

- 2, Providing P.E Pipe class "B" equvalant make fixing in trenches i/c cutting fitting and jointing with "Z" joint with rubber ring i/c testing with water to lead of 61 miter or 200ft (PHSINo.E (i) P/22)

6" dia Pipe

| | | | |
|----------|----------------|--------|-------------|
| 2500 Rft | @ Rs: 440.0 /- | P: Rft | Rs: 1100000 |
|----------|----------------|--------|-------------|

- 3, Special for PE Pipe (SMINo.14 P/14)

Bend 90* 6" dia

| | | | |
|-------|-----------------|------|----------|
| 3 Nos | @ Rs: 1913.0 /- | Each | Rs: 5739 |
|-------|-----------------|------|----------|

Air Valve 3" dia

| | | | |
|-------|-----------------|------|----------|
| 2 Nos | @ Rs: 4000.0 /- | Each | Rs: 8000 |
|-------|-----------------|------|----------|

- 4 Providing Chamber 2-1/3'x1 1/2" (750x750mm) inside dimension 4 1/2 (1372mm) deep as per approved design for sluice valve 3" to 12" dia with 18" (457mm) dia inside cast iron cover and frame (wt-1 cwt 3 sq) fixed in RCC 1:2 Slab 4" dia (102mm) thick with 5 lbs steel per Cft 9" (299mm) thick brick masonry walls set in 1:6 cement motor 6" (152mm) 1:2:4 flooring 1/2" (125mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at very one foot beyond 2 1/2 ft depth curing excavation back filling and disposal of surplus etc. (P.H.S.I.No: : P: 90).

6" dia

| | | | |
|-------|------------------|------|-----------|
| 2 Nos | @ Rs: 18820.0 /- | Each | Rs: 37640 |
|-------|------------------|------|-----------|

| | | | |
|-----------|-----------------|----------|-----------|
| 13922 Cft | @ Rs: 2760.0 /- | P:%0 Cft | Rs: 38425 |
|-----------|-----------------|----------|-----------|

| | |
|--------------------|---------------------|
| Grand Total | Rs 1245492/- |
|--------------------|---------------------|

Group: "C" Pump House (10'x12')

- 1, Excavation in foundation of building bridges and others structure i/c Dag Belling Dressing-refilling around the structure with excavated earth watering ramming lift upto 5 Ft and lead upto one chain (ordinary Soil) (G.S.I No: 18/B P/5).

| | | | |
|------------|------------------|---------|---------|
| 245.00 Cft | @ Rs: 3176.25 /- | P%0 Cft | Rs: 778 |
|------------|------------------|---------|---------|

- 2, Cement Concrete brick or stone ballast 1.1/2" to 2" Gauge Ratio 1:4:8 etc (G.S.I No: 4/B P/16)

| | | | |
|------------|------------------|---------|----------|
| 106.28 Cft | @ Rs: 9416.28 /- | P%0 Cft | Rs: 1001 |
|------------|------------------|---------|----------|

- 3, Coursed Ruble Masonry including hammer dressing with cement sand mortor sand Ratio 1:6. (G.S.I.NO: 2 P/32)

| | | | |
|------------|------------------|--------|-----------|
| 252.00 Cft | @ Rs: 25321.0 /- | P% Cft | Rs: 63809 |
|------------|------------------|--------|-----------|

- 4, D.P.C with cement sand shingle concrete ratio 1:2:4 and cost of asphaltic mixture (G.S.I No. 98 P/102) 2" Thick.

| | | | |
|-----------|------------------|--------|----------|
| 73.50 Sft | @ Rs: 4982.18 /- | P% Sft | Rs: 3662 |
|-----------|------------------|--------|----------|

- 5, Providing and Laying (1:3:6) Cement Concrete Solid Block Masonry Set in 1:6 Cement Sand Mortor in Plinth and foundation i/c making out joints (GSINO.22 P/18).

| | | | |
|------------|-------------------|--------|-----------|
| 225.13 Cft | @ Rs: 14268.73 /- | P% Cft | Rs: 32129 |
|------------|-------------------|--------|-----------|

- 6, R.C.C work i.e. all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rates also i.e. all kinds forms modules lifting shutting curing remarking and finishing the exposed surface i.e. screening and washing of shingle (a) R.C. work in roof slab beams columns rafts lintel and other structural member laid in Situ or pre-cast laid in position in the respect ratio 1:2:4 etc complete (G.S.I No. 6/a P/18)

| | | | |
|------------|-----------------|--------|-----------|
| 112.67 Cft | @ Rs: 337.00 /- | P: Cft | Rs: 37970 |
|------------|-----------------|--------|-----------|

| | | | | | |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------|----|------------------|
| 7, | Fabrication of mild steel reinforcement for cement concrete i.e. cutting bending laying in position making joints & fastening i.e. cost of binding wire also i.e. removal of rust from bars (G.S.I No. 7 ii(a) P/19). (Using Bors) | | | | |
| 3.52 | Cwt | @ | Rs: 5001.70 | /- | P: Cwt Rs: 17606 |
| 8, | Making and fixing steel door with 1/16" thick sheeting i/e. angle iron frame 2" x 2" x 3/8" and 3/4" square bars 4" center to center with locking arrangement (G.S.I No. 24 P/97) | | | | |
| 28.00 | Sft | @ | Rs: 726.72 | /- | P: Sft Rs: 20348 |
| 9, | Providing & Fixing Steel grated window of 'Z' section 3/4" x 4" x 1/8" partly fixed or partly openable i/c glazed with glass fitting painting coats etc complete (H.S.I) | | | | |
| 2.04 | Cwt | @ | Rs: 3098.54 | /- | P: Cwt Rs: 6321 |
| 10, | Supplying and fixing iron steel grill of 3/4" to 1/4" flat iron of approved desion i/c painting 3 coats etc complete weight not less them 3:7 P: & foot of fen steel girds. (G.S.I.No. 24 P: 97) | | | | |
| 24.00 | Sft | @ | Rs: 180.50 | /- | P: Sft Rs: 4332 |
| 11, | Pointing | | New | | Surface |
| | Preparing surface and painting doors and windows and any type (i/c edges) (G.S.I No. 5/C P/76) | | | | |
| | 3 Coats | | | | |
| 104.00 | Sft | @ | Rs: 2116.45 | /- | P:% Sft Rs: 2201 |
| 12, | Cement plaster (1:4) upto 20'ft height 1/2" thick (G.S.I.NO: 11 P/57) | | | | |
| 399.00 | Sft | @ | Rs: 2283.93 | /- | P% Cft Rs: 9113 |
| 13, | Providing and laying 2" thick topping cement concrete (1:2:4) i/c surface finishing and dividing in to panels 2" thick etc (G.S.I No. 16/c P/46). | | | | |
| 120.00 | Sft | @ | Rs: 3275.50 | /- | P:% Sft Rs: 3931 |
| 14, | Pointing Flush on Stone work in Cement Sand Mortor (1:3) (GSINo.20 P/58). | | | | |
| 636.00 | Sft | @ | Rs: 1758.08 | /- | P:% Sft Rs: 1118 |

15, White Washing (3 Coats) (GSINo.26 P/59)

571.00 Sft @ Rs: 829.95 /- P:% Sft Rs: 4739

16, Colour Washing (2 Coats)

451.00 Sft @ Rs: 859.90 /- P:% Sft Rs: 3878

Total Rs: 22299

Group: "D" Repair of Pump House

1, Dismantling cement concrete reinforcement seperating reinforcement from concrete cleaning straighting the same (GSINo.20 P/10).

78.95 Cft @ Rs: 5445.00 /- P:% Cft Rs: 4299

2, Coursed Ruble Masonry including hammer dressing with cement sand mortor sand Ratio 1:6. (G.S.I.NO: 4d P/27)

205.31 Cft @ Rs: 25321 /- P:% Cft Rs: 51987

3, R.C.C work i/c all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid seperatley. This rats also i/c all kinds of forms moduls lifittings shuttering curring rendering and finishing the exposed surface i/c screening and waching of shingle (a) R.C work in r-cf slab beams columns rafts lintels and other structural member laid in situ or cement 2 cft sand 4 cft shingle ¼" to 1/8" guage etc complete. (G.S.I.No 6-1 : P: 15)

112.67 Cft @ Rs: 337.00 /- P: Cft Rs: 37970

4, Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and fastening i/cost of binding wire also i/c removal of rust from bars.(G.S.I.No: 8 (ii) : P/ 16)

4.53 Cwt @ Rs: 5001.70 /- P: Cwt Rs: 22658

5, Making and fixing steel grated door with 1/16"thick sheeting i/c angle iron frame 2"x2"x3/8" and ¾" square bars 4" center to center with looking arragement. (G.S.I.No: 24 : P : 9)

52.75 Sft @ Rs: 726.72 /- P: Sft Rs: 38334

6, Cement plaster 1:4 upto 20'ft height ½"thick ratio (1:4). (G.S.I.No: 11 : P : 51).

876.75 Sft @ Rs: 2197.52 P:% Sft Rs: 19267

7, Cement plaster 1:4 upto 20'ft height ¾"thick ratio (1:4). (G.S.I.No: 11 : P : 51).

876.75 Sft @ Rs: 2283.93 P:% Sft Rs: 20024

8, Providing and Laying 2" thick topping Cement Concrete (1:2:4) i/c Surface finishing and dividing into panels (PHSINo.16 P/41).

| | | | |
|------------------------------------------------------------------------------------------------------------|---------------|------------------|-------------------|
| 120.00 Sft | @ Rs: 3275.50 | P:% Sft | Rs: 3931 |
| 9, White Washing Three Coats (GSINo.26 P/59). | | | |
| 202.50 Sft | @ Rs: 829.95 | P:% Sft | Rs: 1681 |
| 10, White Washing One Coat (GSINo.26 P/59). | | | |
| 876.75 Sft | @ Rs: 416.63 | P:% Sft | Rs: 3653 |
| 11, Colour Washing (Two Coats) (GSINo.25 P/55). | | | |
| 876.75 Sft | @ Rs: 859.90 | P:% Sft | Rs: 7539 |
| 12, Painting New | | Surface:- | |
| Preparing surface and painting of doors and windows only type i/c edges (3 costs) (G.S.I.No: 5 : P : 68). | | | |
| 105.50 Sft | @ Rs: 1662.21 | P:% Sft | Rs: 1754 |
| | | Total | Rs: 213095 |

Group "E" Repair of Compound Wall

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|------------|
| 1, Dismantling Cement Block Masonary (GSINo.14 P/10) | | | |
| 1900 Cf t | @ Rs: 1134 | P% Cft | Rs: 21553 |
| 2, Coursed Rubble Masonary i/c hammer dressing in cement sand mortor (1:6) in foundation and plinth etc (GSINo.2 P/26). | | | |
| 750 Cf t | @ Rs: 25321 | P% Cft | Rs: 189908 |
| 3, D.P.C with Cement Sand Shingle Concrete Ratio (1:2:4) and Cost of asphaltic mixture (GSINo.28 P/18). | | | |
| 1950 Sft | @ Rs: 4982 | P% Sft | Rs: 97153 |
| 4, Providing & Laying (1:3:6) Cement Concrete Solid Block Masonary Wall 6" and below in thickness set in (1:6) cement mortar in ground floor super-structure including raking out joints & curing etc complete (GSINo.22 P/18). | | | |
| 3340 Cf t | @ Rs: 14268.53 | P% Cft | Rs: 476569 |
| 5, Cement Plaster 1/2" thick upto 12'ft height in Cement Sand Mortor (1:4) (GSINo.11/B P/51). | | | |
| 12530 Cf t | @ Rs: 2283.93 | P% Cft | Rs: 286176 |
| 6, Cement Plaster 3/4" thick upto 12'ft height in Cement Sand Mortor (1:4) (GSINo.11/B P/51). | | | |
| 12530 Cf t | @ Rs: 3015.76 | P% Cft | Rs: 377875 |

7, Pointing Flush on Stone work (Raised) i/c Cement Sand Mortar (1:3)
(GSINo.20 P/52).

5200 Sft @ Rs: 1758.08 P% Sft Rs: 91420

8, R.C.C work i.e. all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rates also i.e. all kinds forms modules lifting shutting curing remarking and finishing the exposed surface i.e. screening and washing of shingle (a) R.C. work in roof slab beams columns rafts lintel and other structural member laid in Situ or pre-cast laid in position in the respect ratio 1:2:4 etc complete (G.S.I No. 6/a P/18)

66.50 Cf t @ Rs: 337.00 / - P: Cft Rs: 22411

9, Fabrication of mild steel reinforcement for cement concrete i.e. cutting bending laying in position making joints & fastening i.e. cost of binding wire also i.e. removal of rust from bars (G.S.I No. 7 ii(a) P/19). (Using Bors)

2.67 Cwt @ Rs: 5001.70 / - P: Cwt Rs: 13355

10 Making and fixing steel door with 1/16" thick sheeting i/e. angle iron frame 2" x 2" x 3/8" and 3/4" square bars 4" center to center with looking arrangement (G.S.I No. 24 P/97)

72.00 Sft @ Rs: 726.72 / - P: Sft Rs: 52324

11 **Painting** **New** **Surface**
Preparing surface and painting doors and windows and any type (i/c edges) (G.S.I No. 5/C P/76)

3
Coats

144.00 Sft @ Rs: 1489.68 / - P:% Sft Rs: 2145

12 White Wash or Colour Wash (GSINo.54/a P/15).

11050 Sft @ Rs: 425.84 / - P:% Sft Rs: 47055

13 Colour Washing (Two Coats) (GSINo.25 P/59)

11050 Sft @ Rs: 859.90 / - P:% Sft Rs: 95019
Tota Rs: 1772962

Group: "F" Distribution System / Rising Main

- 1, Excavation for pipe line in trenches and pits in Soft Soil of murum i/c trimming and dressing sides to true alignment and shape levelling of beds joints holes and disposal of surplus earth within one chain as directed by Engineer Incharge providing fence guards light flangs and temporary crossing for non-vehicular traffic wherever required lift upto 5'ft and lead upto one chain (PHSINo.3 P/61).

| | | | | |
|-------|----|--------------|-----|------------|
| 10155 | Cf | / | P%0 | |
| 0 | t | @ Rs: 3600.0 | Cft | Rs: 365580 |

- 3, Providing Laying & Fixing in trenches i/c fitting jointing & testing etc complete in all respect the Height Density Polythenic P.E Pipe (HDPE-100) for W/S Confirming I.S.O 44277 D/W 8074/80 TS 3580 & PSI 3051 (110mm O.D).

6" dia Pipe

| | | | | |
|------|----|-------------|--------|------------|
| 1700 | Rf | @ Rs: 440.0 | P: Rft | Rs: 748000 |
| | t | | | |

4" dia Pipe

| | | | | |
|------|----|-------------|--------|-------------|
| 4800 | Rf | @ Rs: 224.0 | P: Rft | Rs: 1075200 |
| | t | | | |

3" dia Pipe

| | | | | |
|------|----|-------------|--------|-------------|
| 9150 | Rf | @ Rs: 148.0 | P: Rft | Rs: 1354200 |
| | t | | | |

- 4, Supplying P.E Special for P.E Pressure Pipe "B" Class comet joint standard weight for ACIL (PHSINo.14 P/17).

Elbow 4" dia

| | | | | | |
|---|-----|--------------|---|------|----------|
| 6 | Nos | @ Rs: 1655.0 | / | Each | Rs: 9930 |
| | | | - | | |

Elbow 3" dia

| | | | | | |
|----|-----|--------------|---|------|-----------|
| 12 | Nos | @ Rs: 1118.0 | / | Each | Rs: 13416 |
| | | | - | | |

C.I Short Piece

| | | | | | |
|---|-----|--------------|---|------|---------|
| 2 | Nos | @ Rs: 487.50 | / | Each | Rs: 975 |
| | | | - | | |

Short Piece 3" dia

| | | | | | |
|---|-----|-------------|---|------|----------|
| 6 | Nos | @ Rs: 375.0 | / | Each | Rs: 2250 |
| | | | - | | |

C.I Reducer 4'x3'

| | | | | | | | | |
|---|-----|---|------------|---|---|------|-----|------|
| 8 | Nos | @ | Rs: 568.75 | / | - | Each | Rs: | 4550 |
|---|-----|---|------------|---|---|------|-----|------|

Elbow 45* 4" dia

| | | | | | | | | |
|---|-----|---|-------------|---|---|------|-----|------|
| 2 | Nos | @ | Rs: 1324.00 | / | - | Each | Rs: | 2648 |
|---|-----|---|-------------|---|---|------|-----|------|

Bend 45* 3" dia

| | | | | | | | | |
|---|-----|---|------------|---|---|------|-----|------|
| 4 | Nos | @ | Rs: 894.00 | / | - | Each | Rs: | 3576 |
|---|-----|---|------------|---|---|------|-----|------|

- 5, Making Joint C.I Special Fitting i/c laying of the required dia meter and testing to the joint along with the FC Pressure Pipe Line to the Specified pressure and making good to all leaky joint (PHSINo.E P/80).

4" dia

| | | | | | | | | |
|---|--------|---|----------|---|---|-------------|-----|-----|
| 8 | Joints | @ | Rs: 62.0 | / | - | P: Joint | Rs: | 496 |
|---|--------|---|----------|---|---|-------------|-----|-----|

3" dia

| | | | | | | | | |
|---|--------|---|----------|---|---|-------------|-----|-----|
| 8 | Joints | @ | Rs: 62.0 | / | - | P: Joint | Rs: | 496 |
|---|--------|---|----------|---|---|-------------|-----|-----|

- 6 But Fusion Joints (PHSMINo.H P/20).

3" dia

| | | | | | | | | |
|----|--------|---|-----------|---|---|-------------|-----|------|
| 12 | Joints | @ | Rs: 600.0 | / | - | P: Joint | Rs: | 7200 |
|----|--------|---|-----------|---|---|-------------|-----|------|

4" dia

| | | | | | | | | |
|---|--------|---|------------|---|---|-------------|-----|------|
| 5 | Joints | @ | Rs: 1000.0 | / | - | P: Joint | Rs: | 5000 |
|---|--------|---|------------|---|---|-------------|-----|------|

- 6, Providing chamber -2 -1/3" x 1 1/2" (7 11x 457mm) inside dismension 4 (137mm) deep as per approved design for S.V 3" to 12" dia with 18" (457mm) dia inside C.I Cover and frame (wt = 1 sq) fixed in R.C.C 1:2:4 alab 4" (102mm) thick brick machinery walls set in 1:6 cement C.C 1:3:6 in foundation (25mm) thick cement 1:2:4 flooring 1/2" dia (125mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing & fixing M.S foot rest every one foot beyond 2 1/2" ft depth curring excavation back filling and disposal of surplus etc complete. (P.H.S.I.No: 1 P/ 40)

3" dia

| | | | | | | | | |
|---|--------|---|-------------|---|---|-------------|-----|-------|
| 4 | Joints | @ | Rs: 18820.0 | / | - | P: Joint | Rs: | 75280 |
|---|--------|---|-------------|---|---|-------------|-----|-------|

- 7, Jointing C.I/M.S flanged pipe and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts and bolts with washer etc complete (P.H.S.I.No. M (I) P/40)

4" dia

| | | | | | | | |
|---|--------|---|-----------|---|-------|-----|------|
| 2 | Joints | @ | Rs: 513.0 | / | P: | | |
| | | | | - | Joint | Rs: | 1026 |

3" dia

| | | | | | | | |
|---|--------|---|-----------|---|-------|-----|------|
| 6 | Joints | @ | Rs: 499.0 | / | P: | | |
| | | | | - | Joint | Rs: | 2994 |

- 8, Refilling the excavated stuff in trenches in 6"thick layers i/c watering and ramming to full compaction etc complete. (P.H.S.I.No: 24 : P : 53).

| | | | | | | | |
|-------|---------|---|------------|---|--------------------|-----------|----------------|
| 91395 | Cf t | @ | Rs: 2760.0 | / | P:%0 Cft | Rs: | 252250 |
| | | | | - | Grand Total | Rs | 3925067 |

Group "G" Pumping Machinery At Water Works

Pumping Machinery Electric 7.50 BHP

- 1 Supplying & Installing in position i/c transportation to site of Rural Water Supply Scheme Village Haji Noor Mohammad Thaheem District Thatta Electric Pumping Set of 2900 RPM (Siemens) 7.50 BHP Electric (ILAZ-106-2AA)2 Cycles 500/200 Volts non clogging KSB Pump type ETA Norm 80-20 Size 4" x 3" mounted on common steel frame or base plate capable of discharge 260 GPM against the required head of 150'ft i/c instaled on cement concrete Ratio (1:2:4) with M.S nuts and bolts of 5/8" dia to be embeded made in cement concrete foundation on providing and fixing MCO Automatic delta Starter (KSB Made) volts and main submission center switch press in the wall (5"x4") providing internal electric wiring for main switch 3.70 PVC installed wire 500 volts grade 15mm on the ground at the depth of 7.20 m (12) as per Pak PWD Specification and testing pumping set against the required head of 72 hours etc complete (R.A Attached).

| | | | | | | | |
|------|-----|---|------------|---|--------|-----|--------|
| 1.00 | Set | @ | Rs: 168700 | / | P: Set | Rs: | 168700 |
| | | | | - | | | |

Pumping Machinery Diesel 12 BHP

- 2 Supplying & Installing Diesel Pumping Set i/c transportation to site of work at R/W/S/Scheme Village Haji Noor Mohammad Thaheem District Thatta Diesel Engine China Made Pumping Set 12 BHP 2200 RPM i/c Standard Accessories Coupled with non-clogging pump type Norm 80-20 Size 4" x 3" capable to giving discharge 260 GPM against the head of 160'ft mounted on common stee frame or base plate i/c installing of diesel pumping set in Cement Concrete foundation Ratio 1:2:4 with MS Nuts and bolts of 5/8" dia to be embedded in cement concrete foundation of pumping set i/c testing for 72 hours under actual working condition etc complete (R.A.Attached).

1.00 Set @ Rs: 364615 / - P: Set Rs: 364615

- 3 M.S Pipe made out of M.S Sheet of 4.8mm (3/16") bending folding to correct curvature as shape (R.A.Approved).

Suction 4" dia Pipe

48.00 Rft @ Rs: 506.60 / - P: Rft Rs: 24317

Delivery Main 4" dia Pipe

30.00 Rft @ Rs: 506.60 / - P: Rft Rs: 15198

- 4 Manufacturing Supplying M.S Flanges Pipe M.S Steel 3/4" thick (R.A.Approved Base on Schedule).

4"
dia

22.00 Nos @ Rs: 596.75 / - Each Rs: 13129

- 5 Supplying C.I Sluice valve heavy pattern test pressure 21 Kg/sq cam or 300 lbs/inch (SMINo.2 P/9).

4"
dia

2.00 Nos @ Rs: 5460.00 / - Each Rs: 10920

- 6, Supplying Reflex valve heavy pattern test pressure 21 kg/sq cum or 300 lbs/inch (PHSINo. P/9).

4" dia

2.00 Nos @ Rs: 1706.25 /- Each Rs: 3413

- 7, Supplying C.I Bend with flanged end with holes i/c trimming and dressing etc complete (MSINo.2 P/10).

4" dia

47.75 Kg @ Rs: 120.00 /- P: Kg Rs: 5730

8, C.I Tee flanged end with holes i/c turning and facing of flanged for all size (SMINo.12 P/11).

4"x4"x4"

12.41 Kg @ Rs: 120.00 /- P: Kg Rs: 1489

9, Foot valve heavy pattern with cone type gate (Imported).

4" dia

2.00 Kg @ Rs: 893.75 /- P: Kg Rs: 1788

10, C.I Tapped flat bottoms or central tapered flanged ends with holes i/c trimming and facing of flanged for all size (MSINo. P/).

25.30 Kg @ Rs: 120.00 /- P: Kg Rs: 3036

11, C.I Short Piece (PHMINo.9 P/15)

6" dia

1.00 Kg @ Rs: 618.75 /- Each Rs: 619

12, Jointing C.I/M.S Flanged pipes and Specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nts bolts with washer etc (PHSINo.M(I) P/40).

6" dia

1.00 Joint @ Rs: 938.00 /- P: Joint Rs: 938

4" dia

21.00 Joint @ Rs: 513.00 /- P: Joint Rs: 10773

Rs: 627363

Group "H" Pumping Machinery At SOURCE

Pumping Machinery Electric 5.50 BHP

- 1, Supplying & Installing in position i/c transportation to site of Rural Water Supply Scheme Village Haji Noor Mohammad Thaheem District Thatta Electric Pumping Set of 2900 RPM (Siemens) 5.50 BHP Electric (ILAZ-106-2AA) 2 Cycles 500/200 Volts non clogging KSB Pump type ETA Norm 80-20 Size 4" x 3" mounted on common steel frame or base plate capable of discharge 260 GPM against the required head of 150'ft i/c instaled on cement concrete Ratio (1:2:4) with M.S nuts and bolts of 5/8" dia to be embeded made in cement concrete foundation on providing and fixing MCO Automatic delta Starter (KSB Made) volts and main submission center switch press in the wall (5"x4") providing internal electric wiring for main switch 3.70 PVC installed wire 500 volts grade 15mm on the ground at the depth of 7.20 m (12) as per Pak PWD Specification and testing pumping set against the required head of 72 hours etc complete (R.A Attached).

1.00 Set @ Rs: 168700 /- P: Set Rs: 168700

Pumping Machinery Diesel 7.50 BHP

- 2, Supplying & Installing Diesel Pumping Set i/c transportation to site of work at R/W/S/Scheme Village Haji Noor Mohammad Thaheem District Thatta Diesel Engine China Made Pumping Set 7.50 BHP 2200 RPM i/c Standard Accessories Coupled with non-clogging pump type Norm 80-20 Size 4" x 3" capable to giving discharge 260 GPM against the head of 160'ft mounted on common stee frame or base plate i/c installing of diesel pumping set in Cement Concrete foundation Ratio 1:2:4 with MS Nuts and bolts of 5/8" dia to be embeded in cement concrete foundation of pumping set i/c testing for 72 hours under actual working condition etc complete (R.A.Attached).

1.00 Set @ Rs: 364615 /- P: Set Rs: 364615

- 3, M.S Pipe made out of M.S Sheet of 4.8mm (3/16") bending folding to correct curvature as shape (R.A.Approved).

Suction 4" dia Pipe

48.00 Rft @ Rs: 506.60 /- P: Rft Rs: 24317

Delivery Main 4" dia Pipe

30.00 Rft @ Rs: 506.60 /- P: Rft Rs: 15198

- 4, Manufacturing Supplying M.S Flanges Pipe M.S Steel 3/4" thick (R.A.Approved Base on Schedule).

4"
dia

22.00 Nos @ Rs: 596.75 /- Each Rs: 13129

| | | | | | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|-------------|----|----------|-------------------|
| 5, | Supplying C.I Sluice valve heavy pattern test pressure 21 Kg/sq cam or 300 lbs/inch (SMINo.2 P/9). | | | | | | |
| | 4"dia | | | | | | |
| | 2.00 | Nos | @ | Rs: 5460.00 | /- | Each | Rs: 10920 |
| 6, | Supplying Reflex valve heavy pattern test pressure 21 kg/sq cum or 300 lbs/inch (PHSINo. P/9). | | | | | | |
| | 4"dia | | | | | | |
| | 2.00 | Nos | @ | Rs: 1706.25 | /- | Each | Rs: 3413 |
| 7, | Supplying C.I Bend with flanged end with holes i/c trimming and dressing etc complete (MSINo.2 P/10). | | | | | | |
| | 4"dia | | | | | | |
| | 47.75 | Kg | @ | Rs: 120.00 | /- | P: Kg | Rs: 5730 |
| 8, | C.I Tee flanged end with holes i/c turning and facing of flanged for all size (SMINo.12 P/11). | | | | | | |
| | 4"x4"x4" | | | | | | |
| | 12.41 | Kg | @ | Rs: 120.00 | /- | P: Kg | Rs: 1489 |
| 9, | Foot valve heavy pattern with cone type gate (Imported). | | | | | | |
| | 4" dia | | | | | | |
| | 2.00 | Kg | @ | Rs: 893.75 | /- | P: Kg | Rs: 1788 |
| 10, | C.I Tappered flat bottoms or central tappered flanged ends with holes i/c trimming and facing of flanged for all size (MSINo. P/). | | | | | | |
| | 25.30 | Kg | @ | Rs: 120.00 | /- | P: Kg | Rs: 3036 |
| 11, | C.I Short Piece (PHMINo.9 P/15) | | | | | | |
| | 6" dia | | | | | | |
| | 1.00 | Kg | @ | Rs: 618.75 | /- | Each | Rs: 619 |
| 12, | Jointing C.I/M.S Flanged pipes and Specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nts bolts with washer etc (PHSINo.M(I) P/40). | | | | | | |
| | 6" dia | | | | | | |
| | 1.00 | Joint | @ | Rs: 938.00 | /- | P: Joint | Rs: 938 |
| | 4" dia | | | | | | |
| | 21.00 | Joint | @ | Rs: 513.00 | /- | P: Joint | Rs: 10773 |
| | | | | | | | Rs: 624663 |

| Sr. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|---------|--------------------------------------------|----------|------|------|--------|
|---------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|-----------------------------------|----------------|----------------|------------|
| 1 | Repair of Storage Tank | 3624625/- | -- | 1322984/- |
| 2 | Delivery main | 1250500/- | -- | 2054199/- |
| 3 | Pump House (10x12) | 222993/- | -- | 366825/- |
| 4 | Repair of Pump House | 213095/- | -- | 1322984/- |
| 5 | Repair of Compound Wall | 1772962/- | -- | 2054199/- |
| 6 | Distribution System / Rising main | 3925067/- | -- | 366825/- |
| 7 | Pumping Machinery at Water Works | 91348/- | 533315/- | 624663/- |
| 8 | Pumping Machinery at Source | 91348/- | 533315/- | 624663/- |
| | Total | 11191938/- | 1066630/- | 12258568/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS



PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

REHABILITATION OF NON-FUNCTIONAL WATER SUPPLY AND DRAINAGE SCHEMES IN SINDH



STANDARD BIDDING DOCUMENTS
PROCUREMENT OF WORKS (SPPRA BIDDING DOCUMENTS)
For Contracts (Small) amounting between Rs.2.5 (M) to Rs.50 (M)

Reference N.I.T. No.PE/Rehab./225 Dated 28-12-2017

Name of Work:- REHABILITATION OF RURAL WATER SUPPLY SCHEME
DARGAH SHAH AQEEQ DISTRICT SUJAWAL

Issued to M/s _____ Government Contractor

D.R. No. _____ Dated _____ Tender Fee Rs:-3000/-

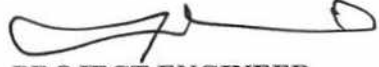
STANDARD BIDDING DOCUMENT IS INTENDED AS A MODEL FOR ADMEASUREMENTS (PERCENTAGE RATE FOR UNIT RATES IN A BILL OF QUANTITIES TYPES OF CONTRACT THE MAIN TEXT REFERS TO ADMEASUREMENTS CONTRACTS.

PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh

BIDDING DATA

(This section should be filled in by the Office of the Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh before issuance of the bidding documents).

| | | |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of Procuring Agency:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh |
| (b) | Brief Description of Works:- | Rehabilitation Of Ruralwater Supply Scheme Dargah Shah Yaqeeq District Sujawal |
| (c) | Procuring Agency Address:- | The Project Engineer Rehabilitation of Non-Functional Water Supply and Drainage Schemes in Sindh Barrack No.94 Apposite Sindh Assembly Karachi |
| (d) | Estimated Cost:- | Rs: 20.000 Million |
| (e) | Amount of Bid Security:- | 2% As per Bid Cost |
| (f) | Period of Bid Validity (Days):- | (90 Days) |
| (g) | Security Deposit (i/c Bid Security):- | (10%) |
| (h) | Percentage, if any, to be deducted from bills:- | (07.50% Income Tax Deduction & 08% Security Deposit) |
| (i) | Deadline for submission of Bids along with time:- | 30-01-2018 at 1:00 pm |
| (j) | Venue, Time, and Date of Bid Opening:- | Project Office Barrack-94 apposite Sindh Assembly Building Karachi 30-01-2018 at 2.00 pm |
| (k) | Time for completion from written order of Commence:- | 12 Months |
| (l) | Liquidity Damages:- | (01% On Estimated Cost)Per day subject to Minimum of 08%. |
| (m) | Deposit Receipt No. Date & Amount (in words and figure) | CD NO: _____ dated: _____ Amount Rs: _____ Bank _____ _____ M/s _____ |


PROJECT ENGINEER
Rehabilitation of Non-Functional
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BILL OF QUANTITY
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE
SCHEDULE OF RATES

NAME OF WORK: **REHABILITATION OF URBAN WATER SUPPLY SCHEME DARGAH SHAH AQEEQ**
DISTRICT SUJAWAL

| Sr.No. | Description of Item to be executed at Site | Quantity | Rate | Amount |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|----------|
| <u>Group: "A" Storage Tank</u> | | | | |
| 1 | Excavation for tank and reservoirs in all kind of soil dressing side to true alignment shape design section profile and levelling of beds of tank to correct level grade i/c laying of earth in 6" layers of construction of bank and dressing to disposal of surplus excavated earth within one chain as directed by Engineer Incharge (PHSINo.5 P/69) | | | |
| | 110670 Cft @ Rs 4050 | P%0 Cft | | 448213.5 |
| 2, | Cement Concrete brick or stone ballast 1/2" to 2" guage (GSINo.4 (b) P/14). | | (Ratio 1:4:8) | |
| | 18445 Cft @ Rs 9416.28 | P% Cft | | 1736833 |
| 3, | Coursed Rubble Masonary hammer dressed in Cement Sand Mortor in foundation and plinth Ratio (1:6) (GSINo.2/d iv P/26) | | | |
| | 20940 Cft @ Rs 25321 | P% Cft | | 5302217 |
| 4, | Cement Concrete Plain i/c placing compacting finishing the curing complete i/c screening and washing stone aggregate without shuttering (Ratio 1:2:4) (GSINo.5 (f) P/15) | | | |
| | 9297.5 Cft @ Rs 14429.25 | P% Cft | | 1341560 |
| 5, | Errection and Removal of Centering for RCC work Cement Concrete plain for partal wood (GSINo.18 P/21). | | | |
| | 191.50 Sft @ Rs 3127.41 | P% Sft | | 5989 |
| 6, | Cement Plaster (1:4) upto 12'ft height 3/4" thick in Cement Sand Mortor (GSINo.II/b P/51) | | | |
| | 6511.00 Sft @ Rs 3015.76 | P% Sft | | 196356 |

1/2" Thick

| | | | |
|-------------|--------------|--------|--------|
| 6511.00 Sft | @ Rs 2283.93 | P% Sft | 148707 |
|-------------|--------------|--------|--------|

7, Pointing Flush on Stone Work (Raised) in Cement Sand Mortor Ratio (1:3) (GSINo.20 P/53).

| | | | |
|-------------|--------------|--------|-------|
| 1935.00 Sft | @ Rs 1758.08 | P% Sft | 34019 |
|-------------|--------------|--------|-------|

INTER CONNECTION

8, Excavation for Pipe line in trenches and pits in all kind of Soil i/c trimming and dressing side to true alignment and shape levelling of bed of trenches to correct level and grade cutting joint holes and disposal of surplus earth wihin one chain as directed by Engineer Incharge (PHSINo.3 P/68).

| | | | |
|------------|--------------|---------|------|
| 896.00 Cft | @ Rs 4650.00 | P%0 Cft | 4166 |
|------------|--------------|---------|------|

9, Providing Laying RCC Pipes of ASTM C-76/62 T/C-76-70 of Class-II Wall B and fixing in trenches i/c cutting fitting and jointing with rubber ring i/c testing with water to specified pressure (PHSINo.B (i) P/17).

12" dia

| | | | |
|-----------|-------------|--------|-------|
| 64.00 Rft | @ Rs 412.00 | P: Rft | 26368 |
|-----------|-------------|--------|-------|

10, Refilling the excavated stuff in trenches 6" layer i/c watering ramming to full compaction etc complete (PHSINo.24 P/77).

| | | | |
|------------|--------------|----------|------|
| 806.40 Cft | @ Rs 2760.00 | P:%0 Cft | 2226 |
|------------|--------------|----------|------|

Total 9246654

Group: "B" Repair of Storage Tank

1, Earth work excavation in ashes, sand soft soil or sit clearance undressed lead upto 50 ft (G.S.I.NO: 2 P-NO:1)

| | | | |
|----------|---------------|---------|-----------|
| 6750 Cft | @ Rs: 1663.75 | P%0 Cft | Rs: 11230 |
|----------|---------------|---------|-----------|

2, earth work for slushy or deldal i/c dewatering. (G.S.I.NO 8 P-16)

| | | | |
|----------|---------------|--------|-----------|
| 6750 Cft | @ Rs: 2420.00 | P% Cft | Rs: 16335 |
|----------|---------------|--------|-----------|

3, earth work for slushy or deldal i/c dewatering. (G.S.I.NO 8 P-16)

| | | | |
|----------|--------------|---------|----------|
| 6750 Cft | @ Rs: 604.68 | P%0 Cft | Rs: 4082 |
|----------|--------------|---------|----------|

5, Coursed rubble masonry i/c hammer dressing in cement sand mortor 1: 6 in super structure. (G.S.I.No: 4d (iii) P/ 27)

| | | | |
|----------|-------------|--------|------------|
| 1094 Cft | @ Rs: 25321 | P% Cft | Rs: 277012 |
|----------|-------------|--------|------------|

6, Cement Concrete Plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering ratio 1:2:4 etc complete (GSINo.5 P/15)

| | | | | | |
|------|-----|---|--------------|-----|------------|
| 5004 | Cft | @ | Rs: 14429.25 | P% | |
| | | | | Cft | Rs: 722040 |

7, Removing of Cement or Lime Plaster (GSINo.53 P/13).

| | | | | | | |
|------|-----|---|------------|----|-----|----------|
| 1944 | Sft | @ | Rs: 121.00 | P% | Sft | Rs: 2352 |
|------|-----|---|------------|----|-----|----------|

8, Cement Plaster upto 12'ft height in Cement Sand Mortor (1:4) 3/4" thick (GSINo.11 c P/52)

3/4" Thick

| | | | | | | |
|------|-----|---|-------------|----|-----|------------|
| 8262 | Sft | @ | Rs: 3016.75 | P% | Sft | Rs: 249244 |
|------|-----|---|-------------|----|-----|------------|

1/2" Thick

| | | | | | | |
|------|-----|---|-------------|----|-----|------------|
| 8262 | Sft | @ | Rs: 2283.93 | P% | Sft | Rs: 188698 |
|------|-----|---|-------------|----|-----|------------|

9, Errection and removal of centering for RCC or Plain Cement Concrete Work of Deodar Wood (2nd Class) (GSINo.19 P/17)

| | | | | | | |
|-----|-----|---|-------------|----|-----|-----------|
| 243 | Sft | @ | Rs: 7693.13 | P% | Sft | Rs: 18694 |
|-----|-----|---|-------------|----|-----|-----------|

10, Pointing Flush on Stone work (Raised) in Cement Mortor (1:3) (GSINo.20 P/52).

| | | | | | | |
|--------|-----|---|-------------|-----|-----|--------------------------|
| 996.00 | Sft | @ | Rs: 1758.08 | P:% | Sft | Rs: 17510 |
| | | | | | | Total Rs: 1507198 |

Group: "C" Pump House (10'x12')

1, D.P.C with cement sand shingle concrete ratio 1:2:4 and cost of asphaltic mixture (G.S.I No. 98 P/102) 2" Thick.

| | | | | | | |
|-------|-----|---|----------------|----|-----|----------|
| 22.13 | Sft | @ | Rs: 4982.18 /- | P% | Sft | Rs: 1103 |
|-------|-----|---|----------------|----|-----|----------|

2, Coursed Ruble Masonry including hammer dressing with cement sand mortor sand Ratio 1:6. (G.S.I.NO: 4d P/27)

| | | | | | | |
|--------|-----|---|-----------------|----|-----|-----------|
| 238.75 | Cft | @ | Rs: 26288.46 /- | P% | Cft | Rs: 62764 |
|--------|-----|---|-----------------|----|-----|-----------|

3, R.C.C work i.e. all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rates also i.e. all kinds forms modules lifting shutting curing remarking and finishing the exposed surface i.e. screening and washing of shingle (a) R.C. work in roof slab beams columns rafts lintel and other structural member laid in Situ or pre-cast laid in position in the respect ratio 1:2:4 etc complete (G.S.I No. 6/a P/18)

105.17 Cft @ Rs: 337.00 /- P: Cft Rs: 35442

4, Fabrication of mild steel reinforcement for cement concrete i.e. cutting bending laying in position making joints & fastening i.e. cost of binding wire also i.e. removal of rust from bars (G.S.I No. 7 ii(a) P/19). (Using Bors)

3.29 Cwt @ Rs: 5001.70 /- P: Cwt Rs: 16456

5, Making and fixing steel door with 1/16" thick sheeting i/e. angle iron frame 2" x 2" x 3/8" and 3/4" square bars 4" center to center with looking arrangement (G.S.I No. 24 P/97)

28.00 Sft @ Rs: 726.72 /- P: Sft Rs: 20348

6, Providing & Fixing Steel grated window of 'Z' section 3/4" x 4" x 1/8" partly fixed or partly openable i/c glazed with glass fitting painting coats etc complete (H.S.I)

2.04 Cwt @ Rs: 3098.54 /- P: Cwt Rs: 6321

7, Supplying and fixing iron steel grill of 3/4" to 1/4" flat iron of approved desion i/c painting 3 coats etc complete weight not less them 3:7 P: & foot of fen steel girds. (G.S.I.No. 24 P: 97)

24.00 Sft @ Rs: 180.50 /- P: Sft Rs: 4332

8, Cement plaster (1:4) upto 20'ft height 1/2" thick (G.S.I.NO: 11 P/57)

399.00 Sft @ Rs: 2283.93 /- P: % Cft Rs: 9113

9, Providing and laying 2" thick topping cement concrete (1:2:4) i/c surface finishing and dividing in to panels 2" thick etc (G.S.I No. 16/c P/46).

120.00 Sft @ Rs: 3275.50 /- P: % Sft Rs: 3931

10; Pointing Flush on Stone work in Cement Sand Mortor (1:3)
(GSINo.20 P/58).

636.00 Sft @ Rs: 1758.08 /- P:%
Sft Rs: 11181

11, **Painting** **New** **Surface**

Preparing surface and painting doors and windows and any type
(i/c edges) (G.S.I No. 5/C P/76)

3 Coats

104.00 Sft @ Rs: 2116.45 /- P:%
Sft Rs: 2201

12, White Washing (3 Coats) (GSINo.26 P/59)

571.00 Sft @ Rs: 829.95 /- P:%
Sft Rs: 4739

13, Colour Washing (2 Coats)

451.00 Sft @ Rs: 859.90 /- P:%
Sft Rs: 3878

Total Rs: 181808

Group: "D" Delivery Main

1, Excavation for pipe line in trenches and pits in Soft Soil i/c
trimming and dressing sides to true alignment and shape levelling
of beds joints holes and disposal of surplus earth within one chain
as directed by Engineer Incharge providing fence guards light
flangs and temporary crossing for non-vehicular traffic wherever
required lift upto 5'ft and lead upto one chain (PHSINo.3 P/61).

6" dia

11813 Cft @ Rs: 3600.0 /- P%0
Cft Rs: 42527

3, Providing P.V.C Pipe class "B" equvalant make fixing in trenches
i/c cutting fitting and jointing with "Z" joint with rubber ring i/c
testing with water to lead of 61 miter or 200ft (PHSINo.E (i) P/22)

6" dia Pipe

1500 Rft @ Rs: 262.0 /- P: Rft Rs: 393000

4, PVC Special for PVC Pipe (SMINo.14 P/14)

Bend 90* 6" dia

5 Nos @ Rs: 1913.0 /- Each Rs: 9565

Air Valve 3" dia

3 Nos @ Rs: 4000.0 /- Each Rs: 12000

Tee Un-Equal 6"x6"x3" dia

4 Nos @ Rs: 1375.0 /- Each Rs: 5500

Tail Piece 6" dia

4 Nos @ Rs: 1056.25 /- Each Rs: 4225

Tee Equal 6" dia

3 Nos @ Rs: 1950.0 /- Each Rs: 5850

- 5, C.I Sluice valve heavy pattern test pressure 21 Lbs/sq cum or 300 Lb/sq cum etc complete.

6" dia

2 Nos @ Rs: 9360.0 /- Each Rs: 18720

- 6, Supplying & Installing G.I Pipe of various dia meter out of M.S Sheet 3/16" thick i/c welding to curvature and shape i/c welding etc complete.

6" dia

260 Rft @ Rs: 772.0 /- P: Rft Rs: 200730

- 7, Manufacturing and Furnishing M.S Flanged Pipe 8" dia made out of M.S Sheet 3/8" thick i/c drilling holes and welding etc complete..

6" dia

26 Nos @ Rs: 804.8 /- Each Rs: 20924

- 8, Jointing C.I/M.S flanged pipe and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts and bolts with washer etc complete (P.H.S.I.No. M (I) P/40)

6" dia

16 Joints @ Rs: 938.0 /- P: Joint Rs: 15008

9, Providing Chamber 2-1/3'x1 1/2" (750x750mm) inside dimension 4 1/2 (1372mm) deep as per approved design for sluice valve 3" to 12" dia with 18" (457mm) dia inside cast iron cover and frame (wt- 1 cwt 3 sq) fixed in RCC 1:2 Slab 4" dia (102mm) thick with 5 lbs steel per Cft 9" (299mm) thick brick masonry walls set in 1:6 cement mortar 6" (152mm) 1:2:4 flooring 1/2" (125mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S foot rest at very one foot beyond 2 1/2 ft depth curing excavation back filling and disposal of surplus etc. (P.H.S.I.No: : P: 90).

6" dia

2 Nos @ Rs: 18820.0 /- Each Rs: 37640

10, Refilling the excavated stuff in trenches in 6"thick layers i/c watering and ramming to full compaction etc complete. (P.H.S.I.No: 24 : P : 53).

10632 Cft @ Rs: 2760.0 /- P:%0 Cft Rs: 29344

Add: 10% Contractor Profit on Sch. Of Material Item Rs: 5008

Grand Total Rs 800042

Group: "E" Distribution System

1, Excavation for pipe line in trenches and pits in Soft Soil of murum i/c trimming and dressing sides to true alignment and shape levelling of beds joints holes and disposal of surplus earth within one chain as directed by Engineer Incharge providing fence guards light flangs and temporary crossing for non-vehicular traffic wherever required lift upto 5'ft and lead upto one chain (PHSINo.3 P/61).

35000 Cft @ Rs: 3600.0 /- P%0 Cft Rs: 126000

3, Providing P.V.C Pipe class "B" equivalent make fixing in trenches i/c cutting fitting and jointing with "Z" joint with rubber ring i/c testing with water to lead of 61 miter or 200ft (PHSINo.E (i) P/22)

4" dia Pipe

3000 Rft @ Rs: 137.0 /- P: Rft Rs: 411000

3" dia Pipe

4000 Rft @ Rs: 90.0 /- P: Rft Rs: 360000

4, PVC Special for PVC Pipe (SMINo.14 P/14)

Bend 90* 3" dia

40 Nos @ Rs: 475.0 /- Each Rs: 19000

Tee Equal 3" dia

15 Nos @ Rs: 361.0 /- Each Rs: 5415

**Tee Un-Equal 6"x6"x3"
dia**

10 Nos @ Rs: 1375.0 /- Each Rs: 13750

Short Piece 3" dia

14 Nos @ Rs: 375.0 /- Each Rs: 5250

C.I Dead End 3" dia

15 Nos @ Rs: 368.8 /- Each Rs: 5531

5, Supplying C.I Sluice valve heavy pattern test pressure 21 lbs/sq cum or 300 lbs/inch etc complete.

3" dia

5 Joints @ Rs: 4290.0 /- P: Joint Rs: 21450

6, Providing chamber -2 -1/3" x 1 1/2" (7 11x 457mm) inside dismension 4 (137mm) deep as per approved design for S.V 3" to 12" dia with 18" (457mm) dia inside C.I Cover and frame (wt = 1 sq) fixed in R.C.C 1:2:4 alab 4" (102mm) thick brick machinery walls set in 1:6 cement C.C 1:3:6 in foundation (25mm) thick cement 1:2:4 flooring 1/2" dia (125mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing & fixing M.S foot rest every one foot beyond 2 1/2" ft depth curring excavation back filling and disposal of surplus etc complete. (P.H.S.I.No: 1 P/ 40)

3" dia

5 Joints @ Rs: 18820.0 /- P: Joint Rs: 94100

7, Jointing C.I/M.S flanged pipe and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts and bolts with washer etc complete (P.H.S.I.No. M (I) P/40)

3" dia

14 Joints @ Rs: 499.0 /- P: Joint Rs: 6986

10, Refilling the excavated stuff in trenches in 6"thick layers i/c watering and ramming to full compaction etc complete. (P.H.S.I.No: 24 : P : 53).

31500 Cft @ Rs: 2760.0 /- P:%0 Cft Rs: 86940

Grand Total Rs 1155422

Group: "F" Repair of Compound Wall

| | | | | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--|------------|--|
| 1, | Dismantling Cement Block Masonary (GSINo.14 P/10) | | | | | |
| | 530 Cft | @ Rs: 1134 | P% Cft | | Rs: 6012 | |
| 3, | D.P.C with Cement Sand Shingle Concrete Ratio (1:2:4) and Cost of asphaltic mixture (GSINo.28 P/18). | | | | | |
| | 398 Sft | @ Rs: 4982 | P% Sft | | Rs: 19829 | |
| 3, | Removing cement or lime plaster. | | | | | |
| | 5000 Sft | @ Rs: 121 | P% Sft | | Rs: 6050 | |
| 4, | Providing & Laying (1:3:6) Cement Concrete Solid Block Masonary Wall 6" and below in thickness set in (1:6) cement mortar in ground floor super-structure including raking out joints & curing etc complete (GSINo.22 P/18). | | | | | |
| | 662 Cft | @ Rs: 14268.53 | P% Cft | | Rs: 94458 | |
| 5, | Cement Plaster 1/2" thick upto 12'ft height in Cement Sand Mortor (1:4) (GSINo.11/B P/51). | | | | | |
| | 11672 Cft | @ Rs: 2283.93 | P% Cft | | Rs: 266580 | |
| 6, | Pointing Flush on Stone work (Raised) i/c Cement Sand Mortar (1:3) (GSINo.20 P/52). | | | | | |
| | 5400 Sft | @ Rs: 1758.08 | P% Sft | | Rs: 94936 | |
| 1, | Excavation in foundation of building bridges and others structure i/c Dag Belling Dressing refilling around the structure with excavated earth watering ramming lift upto 5 Ft and lead upto one chain (ordinary Soil) (G.S.I No: 18/B P/5). | | | | | |
| | for Piller | | | | | |
| | 54 Sft | @ Rs: 3176.25 | P% Sft | | Rs: 1715 | |
| 7, | R.C.C work i.e. all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rates also i.e. all kinds forms modules lifting shutting curing remarking and finishing the exposed surface i.e. screening and washing of shingle (a) R.C. work in roof slab beams columns rafts lintel and other structural member laid in Situ or pre-cast laid in position in the respect ratio 1:2:4 etc complete (G.S.I No. 6/a P/18) | | | | | |
| | 66.50 Cft | @ Rs: 337.00 /- | P: Cft | | Rs: 22411 | |

8, Fabrication of mild steel reinforcement for cement concrete i.e. cutting bending laying in position making joints & fastening i.e. cost of binding wire also i.e. removal of rust from bars (G.S.I No. 7 ii(a) F/19). (Using Bors)

2.67 Cwt @ Rs: 5001.70 /- P: Cwt Rs: 13355

9, Making and fixing steel door with 1/16" thick sheeting i/e. angle iron frame 2" x 2" x 3/8" and 3/4" square bars 4" center to center with looking arrangement (G.S.I No. 24 P/97)

72.00 Sft @ Rs: 726.72 /- P: Sft Rs: 52324

10, **Painting** **New** **Surface**
Preparing surface and painting doors and windows and any type (i/c edges) (G.S.I No. 5/C P/76)

3 Coats

144.00 Sft @ Rs: 1489.68 /- P:% Sft Rs: 2145

11, White Wash or Colour Wash (GSINo.54/a P/15).

10625 Sft @ Rs: 425.84 /- P:% Sft Rs: 45246

12, Colour Washing (Two Coats) (GSINo.25 P/59)

10625 Sft @ Rs: 859.90 /- P:% Sft Rs: 91364

Total Rs: 716425

Group: "F" Low Service Reservoir (08 Nos)

1, Excavation in foundation of building bridges and others structure i/c Dag Belling Dressing refilling around the structure with excavated earth watering ramming lift upto 5 Ft and lead upto one chain (ordinary Soil) (G.S.I No: 18/B P/5).

430.51 Cft @ Rs: 3176.25 /- P% Cft Rs: 13674

2, Cement Concrete brick or stone ballast 1.1/2" to 2" Gauge Ratio 1:4:8 etc (G.S.I No: 4/B P/16)

Ratio 1:4:8

39.28 Cft @ Rs: 9416.28 /- P% Cft Rs: 3699

Ratio 1:5:10

97.03 Cft @ Rs: 8694.95 /- P% Cft Rs: 8437

3, Coursed Rubble Masonry i/c hammer dressing in cement sand mortar (1:6) in foundation & plinth etc (GSINo.20 P/31).

140.80 Cft @ Rs: 25321 /- P% Cft Rs: 35652

4, R.C.C work i.e. all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rates also i.e. all kinds forms modules lifting shutting curing remarking and finishing the exposed surface i.e. screening and washing of shingle (a) R.C. work in roof slab beams columns rafts lintel and other structural member laid in Situ or pre-cast laid in position in the respect ratio 1:2:4 etc complete (G.S.I No. 6/a P/18)

262.62 Cft @ Rs: 337.00 /- P: Cft Rs: 88503

8, Fabrication of mild steel reinforcement for cement concrete i.e. cutting bending laying in position making joints & fastening i.e. cost of binding wire also i.e. removal of rust from bars (G.S.I No. 7 ii(a) P/19). (Using Bors)

10.55 Cwt @ Rs: 5001.70 /- P: Cwt Rs: 52768

9, Providing Laying (1:3:6) Cement Concrete Solid Block Masonary St in (1:6) Cement Sand Mortor in Plinth and foundation i/c racking out joints and curing complete (GSINo.22 P/18).

80.94 Cft @ Rs: 14268.53 /- P% Cft Rs: 11549

10, Providing Construction Joint in Concrete work of 9" wide (1:6) corrugated PVC Water Stopper with Bulbs i/c Cutting Costs of Material and labour (GSINo.B (2) P/43).

11, Cement Plaster 3/4" thick in Cement Sand Mortor (1:4) upto 12'ft height (GSINo.11 P/51).

3/4" Thick

609.50 Sft @ Rs: 3015.76 /- P:% Sft Rs: 18381

1/2" Thick

181.78 Sft @ Rs: 2283.93 /- P:% Sft Rs: 4152

12, Supplying of Dampoo (PSINo.11 P/23).

| | | | | | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-------------|----|--------|-----------|
| | 55.50 | Kg | @ | Rs: 60.00 | /- | P: Lbs | Rs: 3330 |
| 13, | Supplying and Fixing C.I Main Holes Cover with Frame i/c Cost of Material etc (P.S.I.No.J (i) P/35). | | | | | | |
| | 1.75 | Cwt | @ | Rs: 6985.00 | /- | P: Cwt | Rs: 12224 |
| 14, | Providing G.I Pipe and Special and Climbs, etc i/c fixing cutting and fitting complete with an i/c the cost of breaking through walls and roof making good etc painting 2 Coats after cleaning the piep and etc with white / zine paint with pigment to match the color and testing with water to a pressure head of 200'ft and handing. | | | | | | |
| | 3" dia | | | | | | |
| | 27.00 | Rft | @ | Rs: 338.17 | /- | P: Rft | Rs: 9131 |
| 15, | Manufacturing & Supplying M.S Flanges of different dia made outof M.S Sheet of 3/8" thickness i/c cutting welding holes and welding of flange with M.S Pipe etc complete. | | | | | | |
| | 3" dia | | | | | | |
| | 12.00 | Nos | @ | Rs: 500.89 | /- | Each | Rs: 6011 |
| 16, | C.I Tail Piece with one flanged and spigot of the other end all sizes (S.S.I.No. P/). | | | | | | |
| | 26.72 | Nos | @ | Rs: 120.00 | /- | Each | Rs: 3206 |
| 17, | C.I Bend with one flanged and with holes i/c trimming and facing of flanges for all sizes (S.S.I.No. P/). | | | | | | |
| | 26.72 | Kg | @ | Rs: 120.00 | /- | Each | Rs: 3206 |
| 18 | Providing and Fixing C.I Ventilator (weight not be less than 90 lbs/each in tank of roof or approved design with water light joint i/c painting etc complete (PHSINo.4 P/55). | | | | | | |
| | 1.00 | Nos | @ | Rs: 4870.00 | /- | Each | Rs: 4870 |
| 19, | Providing and Fixing in position in cement concrete foundation (1:3:6) MS Leader of MS angle iron 2" x 2" x 1/4" x 1'-0" a part painting 3 coats of anticorrosive paint etc complete (PHSINo.3 P/55) | | | | | | |
| | 10.00 | Nos | @ | Rs: 799.00 | /- | Each | Rs: 7990 |
| 20, | Jointing C.I/M.S Flanged pipes and special flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts and bolts with washer etc and other tools required for jointing and testing the joint to the specified pressure etc complete (PHSINo.M (I) P/40). | | | | | | |

3" dia Intel Pipe

22.00 Cft @ Rs: 499.00 /- P: Cft Rs: 10978

20, Providing G.I Pipe in Standard length with cone type gate socket each pipe length (S.O.M.I.No. P/).

G.I Pipe 1 3/4" dia

24.00 Rft @ Rs: 136.05 /- P: Rft Rs: 3265

21, Bib Cock bar Standard pattern (S.S.V.I.No. P/).

3/4" dia

12.00 Nos @ Rs: 300.00 /- Each Rs: 3600

22, M.I Sluice Valve heavy pattern (SMINo. P/12)

3" dia 1 x 1 = 1 Nos

1.00 Nos @ Rs: 4290.00 /- Each Rs: 4290

23, Cement Concrete Plain i/c pacing compacting finishign and curing complete i/c screening and washing of stone aggregate without shuttering ratio (1:2:4) (GSINo.5 P/15).

Arround LSR

35.33 Cft @ Rs: 14429.25 /- P% Cft Rs: 5098

Total Rs: 314013

Cost of 08 Nos =Rs:-314013/- x 8 = Rs:-2512104/-

GROUP: "H" Pumping Machinery

- 1, Supplying & Installing in position i/c transportation to site of Rural Water Supply Scheme Dargha Shah Yakeeq Distt: Electric Pumping Set of 1450 RPM (Siemens) 15 BHP Electric (ILAZ-106-2AA) 2 Cycles 500/200 Volts non clogging KSB Pump type ETA Norm 100-355 Size 5" x 4" mounted on common steel frame or base plate capable of discharge 340 GPM against the required head of 70'ft i/c instaled on cement concrete Ratio (1:2:4) with M.S nuts and bolts of 5/8" dia to be embeded made in cement concrete foundation on providing and fixing MCO Automatic delta Starter (KSB Made) volts and main submission center switch press in the wall (5"x4") providing internal electric wiring for main switch 3.70 PVC installed wire 500 volts grade 15mm on the ground at the depth of 7.20 m (12) as per Pak PWD Specification and testing pumping set against the required head of 72 hours etc complete (R.A Attached).

1.00 Set @ Rs: 456796 /- P: Set Rs: 456796

Pumping Machinery Diesel 20 BHP

- 2, Supplying & Installing Diesel Pumping Set i/c transportation to site of work at R/W/S/Scheme Dargha Shah Yakeeq Distt: sujawal Diesel Engine China Made Pumping Set 20 BHP 2200 RPM i/c Standard Accessories Coupled with non-clogging pump type Norm 100-215 Size 5" x 4" capable to giving discharge 340 GPM against the head of 70'ft mounted on common stee frame or base plate i/c installing of diesel pumping set in Cement Concrete foundation Ratio 1:2:4 with MS Nuts and bolts of 5/8" dia to be embeded in cement concrete foundation of pumping set i/c testing for 72 hours under actual working condition etc complete (R.A.Attached).

1.00 Set @ Rs: 231729 /- P: Set Rs: 231729

- 3, M.S Pipe made out of M.S Sheet of 4.8mm (3/16") bending folding to correct curvature as shape (R.A.Approved).

Suction 4" dia Pipe

48.00 Rft @ Rs: 506.60 /- P: Rft Rs: 24317

Delivery Main 6" dia Pipe

30.00 Rft @ Rs: 749.34 /- P: Rft Rs: 22480

- 4, Manufacturing Supplying M.S Flanges Pipe M.S Steel 3/4" thick (R.A.Approved Base on Schedule).

4" dia
22.00 Nos @ Rs: 596.75 /- Each Rs: 13129

| | | | | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------|----------|--------------|-------------------|
| 5, | Supplying C.I Sluice valve heavy pattern test pressure 21 Kg/sq cam or 300 lbs/inch (SMINo.2 P/9). | | | | | |
| | 4" dia | | | | | |
| | 2.00 Nos | @ | Rs: 5460.00 /- | Each | | Rs: 10920 |
| 6, | Supplying Reflex valve heavy pattern test pressure 21 kg/sq cum or 300 lbs/inch (PHSINo. P/9). | | | | | |
| | 4" dia | | | | | |
| | 2.00 Nos | @ | Rs: 1706.25 /- | Each | | Rs: 3413 |
| 7, | Supplying C.I Bend with flanged end with holes i/c trimming and dressing etc complete (MSINo.2 P/10). | | | | | |
| | 4" dia | | | | | |
| | 47.75 Kg | @ | Rs: 120.00 /- | P: Kg | | Rs: 5730 |
| 8, | C.I Tee flanged end with holes i/c turning and facing of flanged for all size (SMINo.12 P/11). | | | | | |
| | 4"x4"x4" | | | | | |
| | 12.41 Kg | @ | Rs: 120.00 /- | P: Kg | | Rs: 1489 |
| 9, | Foot valve heavy pattern with cone type gate (Imported). | | | | | |
| | 2.00 Kg | @ | Rs: 893.75 /- | P: Kg | | Rs: 1788 |
| 10, | C.I Tapped flat bottoms or central tapered flanged ends with holes i/c trimming and facing of flanged for all size (MSINo. P/). | | | | | |
| | 25.30 Kg | @ | Rs: 120.00 /- | P: Kg | | Rs: 3036 |
| 11, | C.I Short Piece (PHMINo.9 P/15) | | | | | |
| | 6" dia | | | | | |
| | 1.00 Kg | @ | Rs: 618.75 /- | Each | | Rs: 619 |
| 12, | Jointing C.I/M.S Flanged pipes and Specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nts bolts with washer etc (PHSINo.M(I) P/40). | | | | | |
| | 6" dia | | | | | |
| | 1.00 Joint | @ | Rs: 938.00 /- | P: Joint | | Rs: 938 |
| | 4" dia | | | | | |
| | 21.00 Joint | @ | Rs: 513.00 /- | P: Joint | | Rs: 10773 |
| | | | | | Total | Rs: 787155 |

| S. No. | Description of Item to be executed at Site | Quantity | Rate | Unit | Amount |
|--------|--------------------------------------------|----------|------|------|--------|
|--------|--------------------------------------------|----------|------|------|--------|

A B S T R A C T

| S.No | Component | Schedule Items | Non-Sch: items | Total |
|------|----------------------------------|----------------|----------------|------------|
| 1 | Construction of Storage Tank | 9246654/- | -- | 1322984/- |
| 2 | Repair of Storage Tank | 1507198/- | -- | 2054199/- |
| 3 | Pump House (10x12) | 181808/- | -- | 366825/- |
| 4 | Delivery main | 800042/- | -- | 1322984/- |
| 5 | Distribution System | 1155422/- | -- | 2054199/- |
| 6 | Repair of Compound Wall | 716425/- | -- | 366825/- |
| 7 | Low Service Reservoir (08 Nos) | 2512104/- | -- | 624663/- |
| 8 | Pumping Machinery at Water Works | 102630/- | 684525/- | 787155/- |
| | Total | 16222283/- | 684525/- | 16906808/- |

Total amount of Composite Schedule items

Rs:-

_____ % Above / Below on the rates of CSR
amount to be added / deducted on the basis of premium

Rs:-

Total Amount of Non-Schedule items

Rs:-

Total Rs:-

In Words _____

CONTRACTORS



PROJECT ENGINEER
Rehabilitation of Non-Functional
Water Supply and Drainage Schemes
In Sindh