

PUBLIC HEALTH ENGINEERING DEPARTMENT
GOVERNMENT OF SINDH

PUBLIC HEALTH ENGINEERING DIVISION TANDO ALLAHYAR



**BIDDING DOCUMENTS WITH FINANCIAL
PROPOSAL**

FOR

NAME OF WORK:-

**CONSTRUCTION OF OXIDATION POND, PUMP HOUSE,
PUMPING MACHINERY AND CONSTRUCTION OF
SURFACE DRAINS I/C C.C STREETS AND PROVIDING,
LAYING, JOINTING PVC RISING MAIN "B" CLASS 4" DIA
FOR RURAL DRAINAGE SCHEME MIR MUNAWER ALI
TALPUR DISTRICT TANDO ALLAHYAR.**

2/1/17

Name of Department:	Public Health Engineering Department.
Name of Procuring Agency:	Executive Engineer, Public Health Engg: Division Tando Allahyar.

Document issued to:- _____

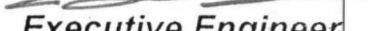
1. Introduction:

Office of the Executive Engineer, PHE Division Tando Allahyar intends to carry out the work for Construction of Oxidation Pond, Pump House, Pumping Machinery & Construction of Surface Drains i/c C.C Streets & Providing Laying Joints PVC Rising Main "B" Class 4" Dia for Rural

BIDDING DATA

This Section Should be filled in by the Office of the Executive Engineer Public Health Engineering Division Tando Allahyar before issuance of bidding documents.

(a)	Name of Procuring Agency	The Executive Engineer Public Health Engineering Division Tando Allahyar.
(b)	Brief Description of Work	Construction of Oxidation Pond, Pump House, Pumping Machinery & Construction of Surface Drains i/c C.C Streets & Providing Laying Jointing PVC Rising Main "B" Class 4" Dia for Rural Drainage Scheme Mir Munawer Ali Talpur District Tando Allahyar.
(c)	Procuring Agency Address	The Executive Engineer Public Health Engineering Division Tando Allahyar
(d)	Estimated Cost	Rs. 7.320 Million.
(e)	Amount of Bid Security	Rs. 0.146 Million.
(f)	Period of Bid Validity (Days)	(6 Months)
(g)	Security Deposit (i/c Bid Security)	(10 %)
(h)	Percentage, if any, to be deducted for bills.	(7.50%) Income Tax Deduction & 08% Security Deposit).
(i)	Deadline for Submission of Bids along with time.	
(j)	Venue, Time and Date of Bid Opening	Executive Engineer PHE Division Tando Allahyar, 13-05-2016.
(k)	Time for completion from written order of commence	6 Month
(l)	Liquidity Damages	(01% on estimated Cost) Per day subject to Minimum of 10%
(m)	Deposit Receipt No. Date & Amount (in words and figure)	CD No: _____ Dated: _____ Amount _____ Rs: _____ Bank: _____ _____ Mr./M/S. _____


**Executive Engineer,
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Clause-4

Firm/Contractor must respond to all questions and provide complete information as advised in this document. Any lapses to provide essential information may result in dis-qualification of the firm/contractor.

Clause-5 Clarification and Modification of Documents (SPP Rule-23)

Firm/Contractor, who has obtained documents, may request for clarification of contents bidding document in writing, and respond to such queries shall be made in writing within calendar days, provided they are received at least five calendar days prior to the date of open bid.

Clause-6 Addendum:

At any time prior to the deadline for submission of documents the procuring agency may amend the Document by issuing addenda. Any addendum issued shall be part of the Document shall be communicated in writing to all who have obtained the bidding document.

Clause-7 Deadline for submission of Documents (SPP Rule 22 & 24)


Documents shall be received by the procuring agency at the address Executive Engineer, PHE Division Tando Allahyar Telephone 022-3891401 not later than the _____ up to 1:00 PM and tenders will be opened on _____ at 2:00 PM in the presence of contractor or their authorized representatives. The procuring agency may, at its discretion, extend the deadline for the submission of documents by amend in subject to the previous deadline shall thereafter be subject to the deadline as extended.

Clause-8 Evaluation (Rule 27 (2)):

Firm/Contractors, general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the Applicant's responses in prescribed forms will be evaluated as per evaluation criteria given in the document. The procurer agency reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Sub-Engineer's experience and resources shall not be taken into account in determining the firm/contractor compliance with the qualifying criteria firms will be considered for similar treatment as in case of Joint Venture.

Clause-9 Clarification of Prequalification Information (Rule 43):

To assist the evaluation information, the agency may, at its discretion, ask any firm/contractor for a clarification information which shall be submitted within a stated reasonable period of time. Any request clarification shall be in writing. If any firm/contractor does not provide clarifications/ information requested by the date and time set in the agencies request for clarification application of the firm/contractor may be rejected.


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Clause-10 Verification of Documents / Information (Rule 28 (Id):

Verification of the information provided by the firms/contractors in the submissions for bidding along with Financial Proposal made. In case the information is found to be wrong or incorrect in any material way firm/contractor is found to be taking in the capability or resources to successfully perform contract, then it shall not be entertained and financial proposal submitted will not be accepted.

3. Section-II: Evaluation / Qualification Criteria.

1. Criteria based on Marks/Score

Mandatory Provisions/Eligibility: Firms/Contractors must possess (i) valid registration certificate of PEC for the year 2015 in the relevant category CE-09-10 discipline (ii) valid registration certificate from income tax authority (NTN), (iii) at least Two contract of equivalent value in last five years (iv) Litigation Affidavit by Bidder (v) Audited Accounts of Last 3 Years (vi) Firm/Contractors is not black listed (Attach all certificates and affidavit of not black listing)

(A) Company Profile.

- | | | |
|----|--|----------|
| i. | Period since Firm/Contractor is in construction business | 10 Marks |
| | Up to 5 Years | 02 Marks |
| | Up to 10 Years | 05 Marks |
| | Above 10 Years | 10 Marks |

(Attach PEC License for each year)

- | | | |
|-----|----------------------------------|----------|
| ii. | Office facilities | 05 Marks |
| | In Sindh Province | 03 Marks |
| | In any other province /Islamabad | 01 Mark |
| | Outside Country | 01 Mark |

(B) General Experience Record. 40 Marks

- | | | |
|----|---|--|
| i. | Projects of Water Supply Scheme | |
| | Completed over last 05 years costing about equivalent value | |
| | 20 Marks for one project (basic requirement) | |

(Attach satisfactory completion certificates)

- | | | |
|-----|--|----------|
| ii. | Projects of similar nature and complexity in hand. | 20 Marks |
| | (10 Marks for each project having cost Rs. _____ Million or above) | |

(Attach copies of work orders)

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(C) Personnel Capabilities required for this project
Following factors shall be used as a guide line.

20 Marks

Sr. No.	Description/Position with qualification & experience	Number Required	Marks assigned	Remarks
1	BSc (Civil Engg:)/BE(Civil) Engineers registered with Pakistan Engineering Council (PEC) with experience of 5 years or above.	02	20	06 Marks for experience of 3 to 05 years. 09 Marks for above 10 years (Attach Tax payment challan showing at least 1 year continuous employment with firm 1 Additional Mark for MSc (Civil Engg:) / M.E (Civil)
2.	Diploma in Civil Engineering with experience of 2 years or above	04	10	Qualifying experience for Sub Engineer minimum Five(5) years

(D) Equipment Capability

10 Marks

- Critical equipment and number required for the project shall be specified by the applicant.
- High value equipment should be an option to own, lease or hire.
- Total equipment available with the applicant is to be listed along with its current mobilization on on-going project.

(Details are to be provided in the attached form)

(E) Financial Soundness/Status

10 Marks

For Financial Status assessment, the Applicants may be required to submit audited Financial Statements for the last three years, the procuring agency will make enquires with the firms / contractors bankers.

Working Capital in hand for this project/work (Attach proof of Bank Statement/Credit Facilities)

- Less than 15% of Estimated Cost of this Work 01 Marks
- Less than 25% of Estimated Cost of this Work 02 Marks
- Less than 40% of Estimated Cost of this Work 04 Marks
- More than 40% of Estimated Cost of this Work 10 Marks

Qualifying Score is 50%, but it is mandatory to obtain 40% in each section.

(2) Based on Yes/No or Pass/Fail System.

Mandatory Provisions / Eligibility: Firms/contractors must possess (i) valid registration certificate of PEC in the category CE-09 and CE10 discipline for 2014 year, (ii) valid registration certificate from income tax authority (NTN), and (iii) is not black listed (Attach all certificates and affidavit of not black listing)

Required Documents: It must include following information, documents

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(A) Firm/Contractor have been in business of construction at least for 05 years.

(B) Experience and past projects performance.

(i). Have completed at least (1) scheme of water supply having cost of at least 50 Million of the single project in the last Five (05) years.

(ii). Have executed at least one (01) project in similar geographical condition in last five (05 years).

(Attach performance certificates of completed projects)

(C) Key Personal Qualification & Experience

(Requirement will vary from assignment to assignment)

(i). **Site Engineers.** Qualification: B.E (Civil), Number ().
Experience: () Similar assignments,
() years experience.

(ii). **Sub Engineer/** Qualification: Diploma in Civil, Number; ()
Quantity Surveyors: Experience: () similar assignment,
() years experience.

(D) Equipment.

(a) Critical equipment and number required for the project shall be specified by the bidder (Attach list of equipment).

(b). High value equipment should be an option to own, lease or hire.

(c). Total equipment available with the applicant is to be listed along with its current mobilization on on-going projects

(E). Financial:

(i). Documentary evidence of financial position, bank statement or audited accounts last Three (03 Years)

(ii). Average Annual turnover of the last three years should not be less than thrice the cost of work under procurement.

Any other information.


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- i) Details of disputes/litigation or arbitration with client if any.
- ii) Any other document/information desired by procuring agency.

S#	Name of Bidder	Eligibility points	wt: 80%	Final Eligibility	Financial Points (cost of lowest bidder/cost of bidder) x 100 =	Finan: wt: 20%	Final Finan: points	Combined Score Col(5+8)	Bid declared by the Committee
1	2	3	4	5	6	7	8	9	10

G. BID EVALUATION PROCEDURE

4. Section-III Application Forms.

A.I **Application Submission Form** (The covering letter is to be submitted by the interested firm/contractor partner responsible for a joint venture, on appropriate company letter head.

1. CONTRACT AGREEMENT

The Contractor shall within 07 days of issuance of letter of award/intent or when called upon. To do so enter and execute a Contract Agreement on PWD format as annexed with the tender.

2. PERFORMANCE SECURITY

The Contractor shall obtain (at his cost) a Performance Security for proper performance, 5% of the Contract/bidding Amount and denominated in the currency (ies) of the Contract or in a freely convertible currency acceptable to the Procuring Agency.

The Contractor shall deliver the Performance Security to the Procuring Agency. within 28 days after receiving the Letter of Acceptance. The Performance Security shall be issued by a reputable bank or financial institution selected by the Contractor, and shall be in the form as provided by the Procuring Agency.

The Contractor shall ensure that the Performance Security is valid and enforceable until the Contractor has executed and completed the Works i/c O & M period and remedied and defects. If the terms of the Performance Security specify its expiry date, and the Contractor has not become entitled to receive the Performance Certificate by the date 28 days prior to the expiry date, the Contractor shall extend the validity of the Performance Security until the Works have been completed and any defects have been remedied.

The Procuring Agency shall not make a claim under the Performance Security, except for amounts to which the Employer is entitled under the Contract.

The Procuring Agency shall indemnify and hold the contractor harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from claim under the Performance Security to the extent to which the Employer was not entitled to make the claim.

The Procuring Agency shall return the Performance Security to the Contractor within 21 days after receiving a copy of the Performance Certificate.

Without limitation to the provisions of the rest of this Sub-Clause, whenever the Procuring Agency determines an addition or a reduction to the Contract Price as a result of a change in cost and/or legislation, or as a result of a Variation, amounting to more than 25 percent of the portion of the Contract Price payable in a specific currency, the Contractor shall at the Procuring Agency's request promptly increase, or may decrease, as the Engineer be, the value of the Performance Security in that currency by an equal percentage.

Execd by the Engineer
Public Health Engg. Division
Tando Allahyar

To,

The Executive Engineer,
Public Health Engineering,
Tando Allahyar.

WHEREAS the contract of Construction of Oxidation Pond, Pump House, Pumping Machinery & Construction of Surface Drains i/c C.C Streets & Providing Laying Jointing PVC Rising Main "B" Class 4" Dia for Rural Drainage Scheme Mir Munawer Ali Talpur District Tando Allahyar.

has been awarded to M/s

_____ (hereinafter called the Contractor).

AND WHEREAS under the terms of the said contract vide letter of Intent No. _____ dated _____ you have agreed to advance a sum of Rs. _____ (Rupees _____) only to the Contractor M/s

_____ for execution of the said work. This advance is to be recovered proportionately at the rate of 25% from each running bill of the Contractor for the subject work, till the entire amount is recovered.

IN CONSIDERATION OF THE ABOVE, I/ we M/s _____ at _____ of Bank Guarantee _____ to you for Contract terms and the above amount Rs. _____ (Rupees _____) only on behalf of the Contractor, and in default thereof we undertake to pay you on demand any sum upto _____ but not exceeding Rs. _____ (Rupees _____) only of the outstanding amount of

advance given by you to the said Contractor upto the date of such demand, provided always our liability hereunder shall not exceed the aggregate amount of Rs. _____ (Rupees _____) only.

THIS GUARANTEE shall be irrevocable and we shall make an unconditional payment to you of the aforesaid amount on demand without further question and without any reference to the said Contractor.

Sd/-
Executive Engineer
Public Health Engg: Division
Tando Allahyar

To,

The Executive Engineer,
Public Health Engineering Division,
Tando Allahyar.

Dear Sir,

SUBJECT: Financial Proposal and Documents/information required for Construction of Oxidation Pond, Pump House, Pumping Machinery & Construction of Surface Drains i/c C.C Streets & Providing Laying Jointing PVC Rising Main "B" Class 4" Dia for Rural Drainage Scheme Mir Munawer Ali Talpur District Tando Allahyar.

Dear Sir,

I/We _____ the undersigned, being duly authorized to represent and act on of _____ submit the financial proposal and required Documents/Information for the project above and enclose one original copy of Financial Proposal and required documents/information and the following.

- (a) I have examined and have no reservations to the Document, including Ad No.(s) _____, issued in accordance with ITB Clause-6.
 - (b) I understand that Procuring Agency may cancel the tendering process at any time an Procuring Agency is not bound either to accept any application that it may receive or financial proposals of technically disqualified bidders, without incurring any liability applicants.
 - (c) Bids by technically qualified applicants will be subject to verification of all information submitted at the time of bidding.
 - (d) Agency reserves the right to amend the scope and value of any contract under this project.
4. The Procuring Agency and its authorized representative (s) may contact the following persons (s) for further information, if needed.

Person to be contacted:

Telephone: _____

5. The undersigned declares that the statements and the information provided are complete and correct in every detail.

Signed

Name: _____

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A-II

1. **Company Profile**

Date: _____

Contract: _____

All individual firms and each partner of a joint venture applying for submission of Technical Proposal requested to complete the information in this form.

1.	Name of Firm (legal): (In case of Joint Venture (JV), legal name of each partner:	
2.	Nature of Business: (Whether the firm is a Corporation, Partnership, Trust etc) (In Case of Consortium, whether the lead consortium member is a corporation, partnership, Trust etc)	
3.	Head Office Address	
4.	Telephone Fax Numbers: E-Mail Address:	
5.	Place of Incorporation/Registration: Year of incorporation / registration:	
6.	Applicant's authorized representative: Telephone Fax Number E-mail address:	
7.	NATIONALITY OF OWNERS Name _____ Country _____	

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A-III

2. General Experience Record

- (i). Details of Contracts of Similar Nature and Complexity completed over last 05 years.


Sr.No.	1	2	3	4	5
Name of Contract:					
Country:					
Name of Procuring Agency with Address, Telephone, Fax					
Nature of Works and special features relevant to the contract for which applied.					
Contract Role (Mention: Sole, Sub-Contractor or Partner in a Joint Venture)					
Value of the total contract in Pak/Rs:					
Date of Award					
Date of Completion					

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(ii) Projects of Similar nature and complexity in hand.


Firms/Contractor and each partner of the joint venture should provide information on their current commitments on all contractors that have been awarded, or for which a letter of intend or acceptance has been received, or for contracts approaching completion, but for which substantial Completion Certificate has yet to be issued.

Name of Contract	Value of Contract	Name of Procuring Agency	Value of Outstanding work (Equivalent Pak Rs. Millions)	Estimated Completion Date


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(iii) Projects executed in similar geographical conditions in last five (5) years.

Sr.No.	1	2	3	4	5
Name of Contract:					
Country:					
Name of Procuring Agency with Address, Telephone, Fax					
Nature of Works and special features relevant to the contract for which applied.					
Contract Role (Mention: Sole, Sub-Contractor or Partner in a Joint Venture)					
Value of the total contract in Pak/Rs:					
Date of Award					
Date of Completion					


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A-IV

4 (A) Personnel Capabilities

Firm / Contractor should provide the names of suitability qualified personnel to meet the specified requirements stated in Section-3(Evaluation and Qualification Criteria). The data on their experience should be supplied using the Form below for each candidate.

Sr. No.	Title of Position	Name/Present Address with Contact Nos.
1.		
2.		
3.		
4.		
5.		


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A-V.

5, Equipment Capabilities

Firm/Contractor shall provide adequate information to demonstrate clearly that capability to meet the requirements for the key equipment listed in Section-3 (Evaluation Qualification Criteria) A Separate Form Shall be prepared for each item of equipment for alternative equipment proposed by the Bidder.

Sr. No.	Name of Equipment	Name of Manufacture	Model and Power rating	Capacity	Year of Manufacture	Current Location	Sources Owned, I Leased Specially Manufacture
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							


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A-VI.

6. Following information shall be provided if equipment is not owned by the Bidder.

Sr. No.	Name of Equipment	Name of Owner	Address of Owner	Contact name and title with Telephone Fax & Email	Agreement Details of rental lease/ manufacture agreements specified to the Project
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					


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A-VII

7. Financial Resources.

A. Banker's Information

Sr. No.	Name & Address of Bank	Contact name and title with Telephone, Fax, E-Mail		
1.				

B. Financial Status: (Summarize actual assets and liabilities in Pak Rupees (Equivalent at the current rate of exchange at the end of each year, for the previous three years). A copy of the audited balance sheets should be attached.

Information from Balance Sheet/Income Statement	Year-I	Year-2	Year-3
1. Total Assets (T)			
2. Total Liabilities (TL)			
3. Current Assets (CA)			
4. Current Liabilities (CL)			
5. Total Revenues (TR)			
6. Profits Before Taxes (PBT)			
7. Profits After Taxes (PAT)			

C. Annual turnover data (Construction only)

Year Amount and Currency Rupees in Million

- 1.
- 2.
- 3.

Average annual construction turnover calculated as total certified payments received for work in progress or completed, divided by the number of years specified in Section-III, Qualification Criteria, Normally not be less than $2 \times V/T$, the estimated annual turnover or cash flow in the subject contract based on a straight-line projection of the Employer's Estimated cost (V) including contingencies, over the contract duration (T). The multiplier of two may be reduced for very large contracts but should be not

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A-VIII

8. **Litigation History**


Applicants, including each of the partners of a joint, venture, should provide information on any history of litigation or arbitration resulting from contracts executed in the last five year or currently under execute). A separate sheets should be used for each partners of joint venture.

A. **Decided Litigation**

Year.	Award for or Against Applicant	Name of Client, Cause of litigation, and matter in dispute	Disputed amount (Current Value Pak Rs. Or equivalent)


B. **Pending Litigation**

Year.	Matter in Dispute	Value of Pending Claim in USS Equivalent	Value of pending claim as a percentage of Net Worth


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Section IV. Scope of Contract: (Description of works and Period of completion)


Sr. No.	Name of Work	Estimated Cost Million	Earnest Money Million	Completion Period	Tender Fee
1.	Construction of Oxidation Pond, Pump House, Pumping Machinery & Construction of Surface Drains i/c C.C Streets & Providing Laying Jointing PVC Rising Main "B" Class 4" Dia for Rural Drainage Scheme Mir Munawer Ali Talpur District Tando Allahyar.	7.320	0.146	6 Months	3000/-
Specification drawings, items of works and quantities of items are provided in Financial Proposal Documents.					


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TENDER FOR THE WORK

Issue to M/s _____ Tender fee for Rs. _____ Received
Vide. _____ D.R No. _____ Dated: _____
_____ Dated of opening of Tender _____


EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
TANDO ALLAHYAR

I/We hereby tender the execution for the **Construction of Oxidation Pond, Pump House, Pumping Machinery & Construction of Surface Drains i/c C.C Streets & Providing Laying Jointing PVC Rising Main "B" Class 4" Dia for Rural Drainage Scheme Mir Munawer Ali Talpur District Tando Allahyar.** under written memorandum within the specified time in such memorandum at.

Percent ABOVE/BELOW the Estimate rated entered in the Schedule "B" Memorandum showing items of work to be carried out and in all respect with the specification designed and instructions writing referred to in Rule thereof.

a). General Description: **Construction of Oxidation Pond, Pump House, Pumping Machinery & Construction of Surface Drains i/c C.C Streets & Providing Laying Jointing PVC Rising Main "B" Class 4" Dia for Rural Drainage Scheme Mir Munawer Ali Talpur District Tando Allahyar.**


b). Estimated Cost: Rs: 7.320 Millions
c). Earnest Money 2% Call Deposit: Rs: 0.146
g). Time of Completion 6 Months

Should be this tender be accepted I/We hereby agree to abide be the fulfill all the terms and provisions of the conditions of contract annexed hereto so as applicable and in default hereof to forfeit any pay the _____ the sum of money mentioned in the said conditions.

Receipt No. _____ Dated: _____ from the Government Treasury / Sub-Treasury / _____ in respect of the sum of the Rs. _____ is her with forwarded representing the earnest money

a). The full value of which is to be absolutely forfeited to PHE Division Tando Allahyar deposited the full amount of Security Deposit specified in the above memorandum in accordance with Clause of the said conditions otherwise the sum of Rs. _____ shall be remained by the PHE Division # I Hyderabad on account of such Security Deposit specified in relevant Clause of the conditions/agreement.

N.B The Tender is required to undertake that all terms and conditions of the printed B-I Forms inclusive of the additional conditions etc approved by the Executive Engineer PHE Division # I Hyderabad will be binding on him and these will be includes and signed by him in the even acceptance of his tender.


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SCHEDULE - B

CONSTRUCTION OF OXIDATION POND, PUMP HOUSE, PUMPING MACHINERY AND CONSTRUCTION OF SURFACE DRAINS I/C C.C STREETS AND PROVIDING, LAYING, JOINTING PVC RISING MAIN "B" CLASS 4" DIA FOR RURAL DRAINAGE SCHEME MIR MUNAWER ALI TALPUR DISTRICT TANDO ALLAHYAR.

ABSTRACT OF COST

1.	Oxidation Pond (60' x 30')	Rs.273524/-
2.	Pump House (12' x 10')	Rs. 187729/-
3.	Pumping Machinery	Rs. 2637398/-
4.	Surface Drain	Rs. 2200071/-
5.	Rising Main	<u>Rs. 523857/-</u>
	TOTAL	RS. 5822579/-

Firm / Contractor


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SCHEDULE – B

NAME OF WORK: CONSTRUCTION OF OXIDATION POND, PUMP HOUSE, PUMPING MACHINERY AND CONSTRUCTION OF SURFACE DRAINS I/C C.C STREETS AND PROVIDING, LAYING, JOINTING PVC RISING MAIN "B" CLASS 4" DIA FOR RURAL DRAINAGE SCHEME MIR MUNAWER ALI TALPUR DISTRICT TANDO ALLAHYAR.

PART-I –OXIDATION PONDS (60' x 30')

1. Excavation for tank and reservoir in soft soil i/c trimming and dressing side 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" layer for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer In-charge i/c providing fence guard lights flags where ever required lift up to 5 feet (1.52 m) and lead up to one chain (30.50 m).(PHESI.NO.1-P/67).

SOFT SOIL

14348.30 Cft @Rs.3000/- P%0 Cft Rs.43045/-

2. Excavation for tank and reservoir in wet soil i/c trimming and dressing side 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" layer for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer In-charge i/c providing fence guard lights flags where ever required lift up to 5 feet (1.52 m) and lead up to one chain (30.50 m).(PHESI.NO.14 - P/74).

WET SOIL

1862.23 Cft @Rs.5350/- P%0 Cft Rs.9963/-

3. Earth work compaction (soft ordinary or hard soil) laying earth in 6" layers leveling dressing and watering for compaction etc complete. (PHESI.NO.13 – P/3).


For Embankment.

18312.18 Cft @Rs.354/- P%0 Cft Rs.6482/-

4. Providing RCC pipes of ASTM.C-76-62 T/C-76-70 class II wall B and fixing in trenches i/c cutting fitting and jointing with rubber rings i/c testing with water to a specified pressure .(PHSOMI:NO:1 – P/18).

18" Dia Pipe.

96.00 Rft @Rs.618/- P/Rft Rs.59328/-


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5. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering.(GSI.NO:1- P/17).

Ratio (1:4:8)

For s/well

50.24 Cft @Rs.11288/75 P% Cft Rs.5671/-

6. R.C.C work i/c all labor and material except the cost of steel reinforcement and its labor for bending and binding which will be paid separately. This rate also i/c all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle. RCC work in roof slabs beams columns rafts lintels and other structural member laid in situ or pre-cast laid in position complete in all respect Ratio (1:2:4). (GSI.NO:11(b)-P/58).

277.05 Cft @Rs.337/- P/Cft Rs.93366/-

7. 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 i/c removal of rust from bars.(G.S.I,NO:7 p/20).

11.13 Cwt. @Rs.5001/70 P/Cwt. Rs. 55669/-

Total Rs.273524/-

PART-II- PUMP HOUSE(12' x 10')

1. Excavation in foundation of building bridges and other structure i/c dug bailing dressing refilling ground the structure with excavated earth watering and ramming lead upto one chain and lift upto 5; feet in ordinary soil (GSI No. 18 (b) Page No.4)

265.0 Cft @ Rs.3176/25 P%0Cft Rs.842/-

2. Cement concrete brick or stone ballast 1 1/2" to 2" gauge. Ratio (1:4:8) (GSI.NO:4-P/17).

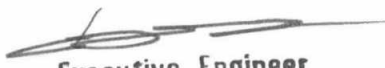
110.28 Cft @Rs.9416/28 P% Cft Rs.10384/-

3. Pacca brick work in foundation up to plinth in cement sand mortar Ratio(1:6). (GSI.NO.4-P/21).

212.44 Sft @Rs.11948/36 P% Sft Rs.25383/-

4. D.P.C with cement sand shingle concrete(1:2:4)i/c 2 coats of asphaltic Mixture 2" thick(GSI.NO.28-P/19).

53.11 Cft @ Rs.3912/85 P% Sft Rs.2078/-


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5. Pacca brick work in ground floor in cement sand mortar.Ratio (1:6)
(GSI No.4 P/23).

306.19 Cft @ Rs.12674/36 P/Cft Rs.38808/-

6. 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 separately. This rate also i/c of forms moulds lifting shuttering curing rendering and finishing the exposes surface i/c screening and washing of shingle (a) RCC work in roof slabs beams columns rafts lintels and other structural members laid in situ or pre-cast laid in position complete in all respect ratio (1:2:4) 90 lbs cement 2 sand and 4 Cft shingle 1/8" to 1/4" gauge (GSI No. 6 P/17).

Say 107.00 Cft @ Rs.337/- P/Cft Rs.36059/-

8. Fabrication of mild steel reinforcement for cement concrete i/c cutting bending laying in position making joints and fastening i/c cost of binding wire also i/c removal of rust from bars (GSI No. 7 P/17).

4.29 cwt @ Rs. 5001/70 P/cwt Rs.21457/-

8. Filling watering and ramming earth under floor with surplus earth from foundation lead upto one chain and lift upto 5 feet (GSI No. 21 P/ 5)

224.00 Cft @ Rs.1512/50 P% Cft Rs.339/-

9. Making and fixing steel grated door with 1/16" thick sheeting including angle iron frame 2"x2"x3/8" and 3/4" square bars 4" centre to centre with locking arrangement (G.S.I) No. 28 Page No.92)

28.0 Sft @Rs.726/72 P-Sft Rs.20348/-

10. Fabrication of heavy Steel work with Angles, Tees, Flat Iron & Sheet Iron for Making Trusses, Girders, Tanks etc i/c Cutting, reverting, handling, assembling, and fixing but excluding erection in position. (GSI.NO:2-P/91).

2.71Cwt @Rs. 4928/48 P/ Rft Rs. 13356/-

11. Supplying and fixing in position on iron steel grill of 3/4"x3/4"x1/8" size flat iron of approved design i/c painting 3 coats etc Complete weight not to be less than 3.70 lbs per Sq:Ft: of finished grill (GSI No.26 P/97).

32.0 Sft @ Rs.180/50 P/Sft Rs.5776/-

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12.	Cement plaster (1:4) upto 20' height 1/2" thick (GSI No. 10 (a) P/57).			
	446.00 Sft	@ Rs.2283/93	P%Sft	Rs.10186/-
13.	Cement pointing (1:3) struck joint on wall (GSI No. 16 (b) P/53).			
	507.00 Sft	@ Rs.1213/58	P%Sft	Rs.6153/-
14.	Providing and laying 2" thick topping concrete ratio (1:2:4) surface finishing and dividing into panel 2" thick (GSI No. 16 P/42).			
	Floor			
	120.0 Sft	@ Rs.3275/50	P%Sft	Rs.3941/-
15.	Rough cost stucco cement plaster 3/4" thick in preparation 1:1 1/2 In cement sand & bajri in pattern.(GSI.NO:32-P/60).			
	103.00 Sft	@Rs.2306/10	P% Sft	Rs.2375/-
16.	Painting new surface preparing surface and painting three coats (GSI No. 5P/70).			
	120.00 Sft	@ Rs.2116/41	P% Sft	Rs.2540/-
17.	White washing three coats. (GSI No. 26- P/60).			
	446.00 Sft	@ Rs.829.95-	P% Sft	Rs.3702/-
18.	Color washing 2 coats (GSI No. 26 P-59)			
	507.00 Sft	@ Rs. 859/90	P%Sft	Rs. 4360/-
				Total Rs. 187729/-

PART-III (A) PUMPING MACHINRY (AT DISPOSAL WORK)

1. Supply and installing in position i/c transportation at site of site work for Urban Water Supply Scheme Mir Munawer Ali Talpur electric pumping set consist of electric motor 50 BHP 3-Phase 50 cycle 400/420 volts of 960 RMP (Siemens) type A.A 200 L, coupled with Centrifugal pump type 5/A size 5" x 4" mounted on common steel frame or base plate capable discharge of 100 GPM against the head of 35 ft. i/c installing of pumping set on c.c foundation ratio (1:2:3) with M.S nuts & bolts of 5/8" dia to be embedded in c.c foundation i/c providing & fixing on prepared board Automatic MCU (KSB) consist of A.C 50 cycles 3 phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relay i/c fixing metaled board to accommodate main or sub main control switch recessed in the wall size 3" x 2" 1/2" & providing internal electric wiring for main with 3-7/0.85(7/0.36) PVC installed wire 660 volts grade in 25 mm (1") PVC conduit on surface as required i/c providing & fixing earthing set with 0.6mx0.6mx6.3m(2'x2'x1/4") copper plate buried in the ground at a depth of 3.7 M(12 ft) or less as per pak PWD specification and testing of the pumping set against the required head & discharge per 72 hours etc complete. (R.A Attached).

1 Sets

@Rs. 724290/-

P. Set

Rs. 724290/-

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2. Providing and installing in position i/c transportation at site of site work for Drainage Scheme Mir Munawer Ali Talpur electric pumping set consist of electric motor 8 BHP (China Made) 3-phase 50 cycle 400/420 volts of 1500 RPM (Siemens) type (1LA7-132 M-4AA-60) coupled with Non-clogging pump KSB type KWP(65-315) Size 3" x 2.50" mounted on common steel frame or base plate capable discharge of 100 GPM against the head of 35 ft.i/c installing of pumping set on c.c foundation ratio(1:2:4) with M.S nuts & bolts of 5/8" dia to be embedded in c.c foundation i/c testing of the pumping set against the required head & discharge per 72 hours etc complete.

1 Sets	@Rs. 523430/-	P. Set	Rs. 523430/-
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3. Manufacturing & Installing M.S Pipe Made out of M.S Sheet 3/16" thick cutting & Folding to required curvature & shape i/c welding etc complete (R.A.Approved based on Schedule).

For Delivery Line 4" Dia

25.0 Rft	@Rs.506/60	P.Rft	Rs.12665/-
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For Suction 3" Dia

36.00Rft	@Rs.385/89	P.Rft	Rs.13892/-
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4. Manufacturing & Installing M.S Flange made out of M.S Sheet 3/8" thick cutting drilling holes etc complete (R.A.A based on Schedule).

3" Dia

8 Nos	@Rs.500/89	Each	Rs.4007/-
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4" Dia

10 Nos	@Rs.596/75	Each	Rs.5968/-
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5. C.I Bend with flanged ends with holes i/c tunning and facing of flanged of all size (PHSMI No: 9(8), P-12).

1.35 Cwt	@Rs.6096/-	P. Cwt	Rs.8230/-
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6. Foot wall heavy pattern with cone type gate (PHSMI. No. 4,(d), P-11).

3" Dia

2.00 Nos	@Rs.731/25	Each	Rs.1463/-
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7. Sluice wall heavy pattern (Test Pressure 21 Kg / Sq. Cm or 300 lbs / Sp. Inch). (PHSM No. 2(b), P-11).

3" Dia

2.00 Nos	@Rs.4290.00		
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			Rs.8580/-
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8. Reflex wall heavy pattern (PHSMI No: 6(d), P-11).

3" Dia
2.00 Nos @Rs.1543.75 Each Rs.3088/-

9. Jointing C.I / M.S Flanged Pipe and Specials flanged inside trenched.
(PHSI No. 1 M1 P/40).

3" Dia
18 Joints @Rs.499.00 P. Joint Rs.8982/-

4" Dia
8 Joints @Rs.513/- P. Joint Rs.4104/-

Total Rs. 1318699/-

PART-III (B) PUMPING MACHINRY (AT OXIDATION POND)

1. Supply and installing in position i/c transportation at site of site work for Urban Water Supply Scheme Mir Munawer Ali Talpur electric pumping set consist of electric motor 50 BHP 3-Phase 50 cycle 400/420 volts of 960 RMP (Siemens) type A.A 200 L, coupled with Centrifugal pump type 5/A size 5" x 4" mounted on common steel frame or base plate capable discharge of 100 GPM against the head of 35 ft. i/c installing of pumping set on c.c foundation ratio (1:2:3) with M.S nuts & bolts of 5/8" dia to be embedded in c.c foundation i/c providing & fixing on prepared board Automatic MCU (KSB) consist of A.C 50 cycles 3 phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relay i/c fixing metaled board to accommodate main or sub main control switch recessed in the wall size 3" x 2" 1/2" & providing internal electric wiring for main with 3-7/0.85(7/0.36) PVC installed wire 660 volts grade in 25 mm (1") PVC conduit on surface as required i/c providing & fixing earthing set with 0.6mx0.6mx6.3m(2'x2'x1/4") copper plate buried in the ground at a depth of 3.7 M(12 ft)-or less as per pak PWD specification and testing of the pumping set against the required head & discharge per 72 hours etc complete. (R.A Attached).

1 Sets @Rs. 724290/- P. Set Rs. 724290/-


2. Providing and installing in position i/c transportation at site of site work for Drainage Scheme Mir Munawer Ali Talpur electric pumping set consist of electric motor 8 BHP (China Made) 3-phase 50 cycle 400/420 volts of 1500 RPM (Siemens) type (1LA7-132 M-4AA-60) coupled with Non-clogging pump KSB type KWP(65-315) Size 3" x 2.50" mounted on common steel frame or base plate capable discharge of 100 GPM against the head of 35 ft.i/c installing of pumping set on c.c foundation ratio(1:2:4) with M.S nuts & bolts of 5/8" dia to be embedded in c.c foundation i/c testing of the pumping set against the required head & discharge per 72 hours etc complete.

1 Sets @Rs. 523430/- P. Set Rs. 523430/-

3. Manufacturing & Installing M.S Pipe Made out of M.S Sheet 3/16" thick cutting & Folding to required curvature & shape i/c welding etc complete (R.A Approved based on Schedule).

For Delivery Line 4" Dia
26.0 Rft @Rs.506/60 P.Rft Rs.12665/-

For Suction 3" Dia
36.00Rft @Rs.385/89 P.Rft Rs.13892/-


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4. Manufacturing & Installing M.S Flange made out of M.S Sheet 3/8" thick cutting drilling holes etc complete (R.A.A based on Schedule).

<u>3" Dia</u> 8 Nos	@Rs.500/89	Each	Rs.4007/-
<u>4" Dia</u> 10 os	@Rs.596/75	Each	Rs.5968/-

5. C.I Bend with flanged ends with holes i/c tunning and facing of flanged of all size (PHSMI No: 9(8), P-12).

1.35 wt	@Rs.6096/-	P. Cwt	Rs.8230/-
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6. Foot wall heavy pattern with cone type gate (PHSMI. No. 4,(d), P-11).

<u>3" Dia</u> 2.0 os	@Rs.731/25	Each	Rs.1463/-
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7. Sluice wall heavy pattern (Test Pressure 21 Kg / Sq. Cm or 300 lbs / Sp. Inch). (PHSM No. 2(b), P-11).

<u>3" Dia</u> 2.0 os	@Rs.4290.00	Each	Rs.8580/-
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8. Reflex wall heavy pattern (PHSMI No: 6(d), P-11).

<u>3" Dia</u> 2.0 os	@Rs.1543.75	Each	Rs.3088/-
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9. Jointing C.I / M.S Flanged Pipe and Specials flanged inside trenched. (PHSI No. 1 M1 P/40).

<u>3" Dia</u> 18 Joints	@Rs.499.00	P. Joint	Rs.8982/-
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<u>4" Dia</u> 8 Joints	@Rs.513/-	P. Joint	Rs.4104/-
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Total Rs. 1318699/-

Grand Total: Rs. 2637398/-

(PART-IV SURFACE DRAIN)

1. Dismantling and removing of road metal ling.(G.S.I.NO:51-P/13).

271.00 Cft	@Rs.605/-	P% Cft	Rs.1640/-
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2. Dismantling cement with brick aggregate.(G.S.I.NO:19(d)- P/10).
- 271.00 Cft @Rs.907/50 P% Cft Rs.2459/-
3. Dismantling cement concrete plain.(1:2:4).(G.S.I.NO:19(c) P/10).
- 135.50 Cft @Rs.3327/50 P% Cft Rs.4509/-
4. Excavation in foundation of building bridges and other structure i/c dag-belling dressing refilling around structure with excavated earth watering and ramming lead upto one chain and lift upto 5; feet in ordinary soil (GSI No. 18 (b) Page No.4).
- 5698.50Cft @ Rs.3176/25 P%0 Cft Rs.18100/-
5. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering.(GSI.NO:5/f - P/16).
Ratio (1:4:8)
- 1283.0 Cft @ Rs.11288/75 P% Cft Rs.144835/-
6. Pacca Brick Work in foundation and plinth in cement sand mortar Ratio (1:6).
(GSI No.4/e- P-21).
- 3375.00Cft @Rs.11948/36 P% Cft Rs. 403257/-
7. Construction of open drains Cunnette block of cement concrete (1:4) in Citu to the design profile i/c cost of molds as per drawing i/c applying floating coat of cement 1/32" thick to the exposed surface finished smooth curing etc complete as per detailed drawing, (G.S.I D- P/44).
- Type "A"
1500.00Cft @Rs.94/- P% Cft Rs. 141000/-
- Type "B"
500.00Cft @Rs.174/- P% Cft Rs. 87000/-
8. Cement plaster (1:4) up to 12' height 1/2" thick (GSI No. 11/b P/52).
- 6220.0 Sft @ Rs.2283/93 P% Sft Rs.142060/-

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9. 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 separately. This Rate also i/c all kinds of forms moulds lifting shuttering curing rendering and Finishing the exposed surface i/c screening and washing of shingle. RCC work In roof slabs beams columns rfts lintels and other structural member laid in situ Or precast laid in position complete in all respect Ratio 1:2:4. (G.S.I.NO. 6/a P/17).

223.38 Cft @Rs.337/- P/ Cft Rs. 108979/-

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 i/c removal of rust from bars.(G.S.I,NO:8/b P/17).

11.54Cwt @Rs.5001/70 P. Cwt Rs. 57720/-

Total Rs. 111559/-

(PART-IV) PART- II C.C BLOCK)

1. Barrow pit excavation undressed lead upto 100ft (a) in ordinary soil. (G.S.I No 3/a p-1)

11070.00 Cft @Rs.2117/50 P%o Cft Rs. 23441/-

2. Earth work excavation in ashes sand soft soil or silt clearance undressed lead up to 50ft. (G.S.I No. 2 P-1).

11070.00 Cft @Rs. 354/- P%0 cft Rs. 3919/-

3. Cement concrete Bricks or stone ballast 1 1/2" to 2" guage. (GSI No. 4/b P/15) (Ratio: 1 : 4 : 8)

4870.80 Cft @Rs.9416/28 P% Cft Rs. 458667/-

4. Erection and removal of centering for RCC or plain cement concrete works of partial wood (2nd Class) (GSI No.19 (b)(ii) P/18).

461.25 Sft @Rs. 3127/41 P% Sft Rs. 14417/-

5. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering.(GSI.NO:5/f - P/16).

Ratio (1:2:4)

3690.00Cft @ Rs.14429/25 P% Cft Rs.532419/-

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6. Cartage of Earth (Lead 2 Miles).

11070.00 Cft	@Rs.502/52	P% Cft	Rs. 55629/-
			Total Rs: 1088512/-

(PART-V RISING MAIN)

1. Dismantling and removing of road metal ling. (G.S.I.NO:51- P/13).

4" dia

100.00 Cft	@Rs.605/-	P% Cft	Rs.605/-
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2. Dismantling cement with brick aggregate.(G.S.I.NO:19(d)- P/10).

4" dia

100.00 Cft	@Rs. 907/50	P% Cft	Rs.908/-
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3. Dismantling cement concrete plain. (1:2:4). (G.S.I.NO:19(c)- P/10).

4" dia

66.00 Cft	@Rs.3327/50	P% Cft	Rs.2196/-
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4. Excavation for pipe line in trenches and pits i/c trimming and dressing sides to true alignment and shape leveling of bed of trenches to correct level and grade cutting joint holes and disposal of surplus earth within one chain as directed by engineer in charge providing fence guards lights flags and temporary crossings for non vehicular traffic where ever required lift up to 5 ft and lead up to one chain. (P.H.S.I.NO: 1- P/60).

SOFT SOIL

15750.00 Cft	@Rs.3600/-	P%0 Cft	Rs.56700/-
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5. Providing uPVC pressure pipe of class "B" (Equivalent Make) fixing in trenches i/c cutting fitting & jointing with 'Z' joint with one pair of rubber ring i/c testing with water to the head of 61 meter or 200 ft. (PHESI: NO:1- P/22)

4" Dia 2300.00 Rft	@Rs.137/-	P/Rft	Rs.315100/-
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PVC fitting "z" joint. (PHESMI:NO:18-P/26).

(i) **TEE.**

4" Dia 2 Nos @Rs.1181/- Each Rs.2362/-

(ii) **BENDS**

4" Dia 5 Nos @Rs.956/- Each Rs.4780/-

(iii) **DEAD ENDS.**

4" Dia 2 Nos. @Rs.4000/- Each Rs. 8000/-

6. Making joints to PVC special fitting (i/c laying of specials cost of solvent cement) of required diameter & testing the joints along with the A.C pressure pipe line to the specified pressure and making good to all leaky joints etc complete.(PHS:NO:1-P/42).

4" Dia 9.00 joints @Rs.70/- P.joint Rs.630/-

7. Manufacturing and installing M.S flange made out of M.S sheet 3/8" thick cutting drilling holes etc complete.

4" dia 8 Nos @Rs.596/75 Each Rs.4774/-

8. C.I bend with flange ends with holes i/c tuning & facing of Flange for all size.(PHSMI.NO:8-P/11).

0.975 Cwt @Rs.6096/- P. Cwt Rs.5944/-

9. Jointing C.I / M.S flanged pipes & specials flanged inside trench i/c supplying rubber packing of the required thickness nuts & bolts with washers' etc & other tool required for jointing & testing the joint to the specified pressure etc complete.(PHESI.NO:1-P/35).

4" dia 10.00 joints @Rs.513/- P.Joint Rs. 5130/-

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10.	Supplying and Fixing Tail Piece. 4" Dia 4" dia 2.00 Nos	@Rs.487/50	Each	Rs. 975/-
11.	Providing chamber 3'x2' (915x615mm) inside dimension 4 ½' (1372mm) deep as per approved design for sluice valve 3' to 12" dia with 18" (457 mm) dia inside cost iron cover and frame (wt = 1 cwt 3qr) fixed in RC.C 1:2:4 (102 mm) thick (with 5 lbs steel P/Cft) 9" thick (299mm) brick masonry wall set in 1:6 cement mortar 6" (1152mm) thick cwt 1:3:6 in foundation 1" (25mm) thick cement concrete 1:2:4 flooring 1/2" (12.50mm) thick cement plaster to all inside wall surface and top i/c providing & fixing M.S foot rest @ every one ft beyond 2 ½ ft depth curing excavation back filling and disposal of surplus earth etc complete.(PHSI.No.Q (1)-P/49).	2.00 Nos.	@Rs.18820/-	Each Rs.37640/-
12.	Refilling the excavated stuff in trenches 6" thick layer i/c layer i/c watering ramming to full compaction etc complete.(P.H.S.I.NO:24 P/53).	14175.00 Cft	@Rs.2760/-	P%0 Cft Rs. 39123/- Total: Rs. 523857/-

TERMS AND CONDITIONS.

1. The rates should be inclusive of all taxes i,e sale tax, octroi, royalties etc if any.
2. No separate carriage will be allowed to the Firm/Contractor.
3. No premium will be allowed on non schedule items.
4. Sweet water will be used in construction work.
5. The testing of work will be arranged by the Firm/Contractor at his on cost. No separate payment will be made.
6. Any error or omission in the specification item will be governed by the relevant specification & schedule of rates.

Contractor/ Firm

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