

PUBLIC HEALTH ENGINEERING DEPARTMENT
GOVERNMENT OF SINDH

PUBLIC HEALTH ENGINEERING DIVISION MIRPURKHAS.

**BIDDING DOCUMENTS WITH FINANCIAL
PROPOSAL**

FOR

NAME OF WORK:- PROVIDING IMPROVEMENT OF SEWERAGE
ARRANGEMENT IN VARIOUS ZONES FOR SEWERAGE
LINE 18" AND 12" DIA UC-01 TO UC-08 MIRPURKHAS.

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

Document issued to:- M/s _____

(1)

1. Introduction:

Office of the Executive Engineer, PHE Division Mirpurkhas, intends to carry out the work for "PROVIDING IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUS ZONES FOR SEWERAGE LINE 18" AND 12" DIA UC-01 TO UC-08 MIRPURKJHAS.Scope:

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Sr. No.	Location of Work	Taluka
	PROVIDING IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUS ZONES FOR SEWERAGE LINE 18" AND 12" DIA UC-01 TO UC-08 MIRPURKJHAS.	MIRPURKHAS.

(ii). Estimate Cost: Rs. 45.000 (In Million)

(iii). Completion Period: 09 Months

iv) Applicants will be informed in due course of time, for the result of the evaluation. The financial proposals of only those firms/bidders will be entertained/accepted who will qualify according to the eligibility criteria.

2. Section-I Instruction To Bidders/Applicants (ITB)

Clause-I

The firm/contractor shall enclose the original copy of the documents in a sealed envelope along with Financial Proposal which shall:-

- Bear the name and address of the Applicant.
- Be delivered by hand or through courier/registered mail to address mentioned in advertisement (N.I.T) for the work.
- Be clearly marked "Application for submission of Financial Proposal & Information / Documents

FOR

PROVIDING IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUS ZONES FOR SEWERAGE LINE 18" AND 12" DIA UC-01 TO UC-08 MIRPURKJHAS.

Clause-2

If the envelope is not sealed and marked as required, the procuring agency will assume not responsibility for the misplacement or pre-maturing opening of the document.

Clause-3

Document shall be prepared in English Language.

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 of bidding document in writing, and respond to such queries shall be made in writing within 3 calendar days, provided they are received at least five calendar days prior to the date of opening of bid.

Clause-6 Addendum:

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

Clause-7 Extension of Deadline for submission of Documents.

The procuring agency may extend the dead line date of submission of bids in line with the SPPRA RULE-22 (1) (2).

Clause-8 Submission of bids (SPPRA RULE 24 (1) (2))

- i) Bids shall be submitted on the place, date and time and in the manner specified in the tender notice and bidding documents and any bid submitted late due to any reason whatsoever, shall not be considered by the procurement committee.
- ii) The bidders may submit bids on the bidding documents issued by the procuring agency or downloaded from the authority's website alongwith tender fee by mail or by hand.

Clause-9 Accuracy of Documentation.

In case of any information/documents submitted by bidder is found to be false/wrong, the bid shall be liable to rejection.

4. Section-II 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 remedies 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 case may be, the value of the Performance Security in that currency by an equal percentage.

3. Advance/Mobilization Payment

The Procuring Agency shall make an advance Payment/Mobilization advance upto 10% of the contract prices to the Contractor (a) on submission by the Contractor of a mobilization advance guarantee for the full amount of the advance in the specified form, from a Schedule Bank in Pakistan, acceptable to the procuring agency (b) Contractor shall pay interest on the mobilization advance at the rate of 10% per annum on the full amount of advance.

Unless and until the Procuring Agency receives this guarantee, or if the total advance payment is not stated in the Contract Data, this condition shall not apply.

The contractor shall deliver to the Procuring Agency Interim Payment request for the advance payment or its first installment after the Procuring Agency receives the Performance Security. This guarantee shall be issued by a reputable bank or financial institution selected by the Contractor and shall be in the form as approved by the Procuring Agency..

The Contractor shall ensure that the guarantee is valid and enforceable until the advance payment has been repaid, but its amount shall be progressively reduced by the amount repaid by the Contractor as indicated in the Payment Certificates. If the terms of the guarantee specify its expiry date, and the advance payment has not been repaid by the date 28 days prior to the expiry date, the Contractor shall extend the validity of the guarantee until the advance payment has been repaid.

The advance payment shall be repaid through percentage deductions from the interim payments/Running Amount bills determined by the Procuring Agency as follows:

- (a) Deductions shall commence in the next interim Payment Certificate/Running Amount bill following that in which the total of all certified interim payments (excluding the advance payment and deductions and repayments of retention) exceed 30 percent (30%) of the Accepted Contract Amount less Provisional Sums; and
- (b) Deductions shall be made at the rate of 25% of the amount from each interim Payment/Running amount bill (excluding the advance payment and deductions for its repayments as well as deductions for retention money) in the currencies and proportions of the advance payment until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the time when 90 percent (90%) of the Accepted Contract Amount less Provisional Sums has been certified for payment.

If the advance payment has not been prepaid prior to the issue of the Taking-Over Certificate for the Works or prior to termination under Clause of agreement [Termination by Procuring Agency] or Clause For Majeure (as the case may be), the whole of the balance then outstanding shall immediately become due and in case of termination under relevant Clauses, payable by the Contractor to the Employer.

4. TENDER GUARANTEE/EARNEST MONEY

In the event of the Contractor's failure to execute a Contract Agreement as required by hereof or to furnish a Performance Security in accordance whereof within 10 days after being required to do so in writing by the Procuring Agency, then the sum of Tender Deposit/Earnest Money as a guarantee of good faith shall be absolutely forfeited to the Procuring Agency and the Procuring Agency shall be entitled (but not obliged), by notice in writing, to draw his acceptance of the Tender and such acceptance, if so withdrawn shall thereupon be void as though it has never been given and the Contractor shall have no claim against the Procuring Agency whether for damages, specific performance or otherwise in respect of such acceptance or withdrawal.

(6)

To,

The Executive Engineer,
Public Health Engineering,
Division Mirpurkhas.

WHEREAS the contract of "PROVIDING IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUS ZONES FOR SEWERAGE LINE 18" AND 12" DIA UC-01 TO UC-03 MIRPURKJHAS... 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/-

To,

The Executive Engineer,
Public Health Engg. Division,
Mirpurkhas.

Dear Sir,

SUBJECT: Financial Bid and Documents/information required for "PROVIDING IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUS ZONES FOR SEWERAGE LINE 18" AND 12" DIA UC-01 TO UC-08 MIRPURKJHAS.

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, issued in accordance with ITB Clause-6.
 - (b) I understand that Procuring Agency may cancel the tendering process at any time and 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 to the applicants.
 - (c) Bids of 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: _____

A-II

1. Company Profile

Date: _____

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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- (i) **Information on Projects of Similar nature and equivalent value.**

Contractor/Firm should provide information of the works of similar nature and equivalent value in the following format supported by documentary evidence

Name of Contract	Value of Contract	Name of Procuring Agency	Completion Date

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. Annual turnover data (Construction only)

Year	Amount	Rupees in Million

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

(11)

Estimated cost (V) including contingencies, over the contract duration (T). The multiplier of two may be reduced for very large contracts but should not be less than 1.5

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. O equivalent)

B. **Pending Litigation**

Year.	Matter in Dispute	Value of Pending Claim in Current Value Pak Rs. Or Equivalent	Value of pending claim as a percentage of Net Worth

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(12)

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.	-----As detailed in NIT-----				

Specification drawings, items of works and quantities of items are provided in Financial Proposal Documents.

SCHEDULE (A)**TERMS & CONDITIONS OF CONTRACT.**

1. The Sindh sales tax special procedure (with holding) rules, 2011 shall apply to taxable services as are supplied, provided or rendered to persons, specified as with holding agents, in the with holding procedure, for the purpose of deduction and deposit of sales tax.
2. The Contract/Firm has to arrange potable water to use in construction on his cost.
3. The Contractor shall have to pay 0.30% of contract cost in shape of revenue stamp duty at the time of agreement.
4. 10% deposit will be received from contractor in shape of 2% call deposit alongwith bid and 8% shall be with held on all running bills.
5. All the material of approved quality will be used, Sample of the material, fixture, cement hill sand, crush, bricks pipes, fitting, UPVC, Electrical will be got approved in advance / before execution. For Pumping Machinery, Diesel Engine & Generator, Contractor will provide Manufacturers certificate which will be verified by Incharge Engineer before making payment samples shall be collected from each new lot stacked at site in the presence of Executive Engineer or representatives and jointly sealed and got tested from approved laboratory at contractor's own cost in case the contractor fails to comply with this condition.
6. The Contractor shall maintain at the site of work "Site Order Book" (of triplicate leaves) at his own cost for taking instructions and directions from the supervising monitoring officers/officials
7. The contractor shall at his own cost provide a suitable size high visibility signboard at each location indicating the details of project as approved by the Engineer in charge
8. No premium shall be allowed on non-schedule item and 1 year operation & maintenance component.
9. On successful completion of 1 year operation & maintenance, the contractor shall hand over the scheme to concerned Executive Engineer in sound and satisfactory running condition.

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS.



EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS

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
MIRPURKHAS.

I/We hereby tender the execution for the PROVIDING IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUSE ZONES FOR SEWRAGE LINE 18" DIA AND 12" DIA S UC 01 TO 08 MIRPURKHAS . 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 | As above.. |
| b). Estimated Cost: | Rs: 45.000 Millions |
| c). Earnest Money 2% Call Deposit: | Rs: 0.900 Million |
| g). Time of Completion | 09 Month |

Should be this tender be accepted I/We hereby agree to abide be the fullfill 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 Mirpurkhas. 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 remaine.d by the PHE Division ... Mirpurkhas. on account of such Security Deposit specified in relevant Cluase of the conditions/agreement.

N.B The Tenderer or 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 Mirpurkhas. will be binding on him and these will be includes and signed by him in the even acceptance of his tender.

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS.

SCHEDULE "B"

**PROVIDING & IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUS
ZONES SEWERAGE LINE 18" DIA & 12" DIA UC-1 TO UC-8 MIRPURKHAS
CITY DISTRICT MIRPURKHAS**

ABSTRACT OF COST

PART-A	ZONE B	RS: 14001140/-
PART-B	PUMPING MACHINERY ZONE D	RS: 2355189/-
PART-C	RISING MAIN ZONE D	RS: 7100058/-
PART-D	RCC SEWER	RS: 18123514/-
PART-E	EARTH BUND	<u>RS: 2766330/-</u>

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS

SCHEDULE "B"

**PROVIDING & IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUS
ZONES SEWERAGE LINE 18" DIA & 12" DIA UC-1 TO UC-8 MIRPURKHAS
CITY DISTRICT MIRPURKHAS**

SUB ABSTRACT FOR ZONE "B"
PART "A"

i.	DISPOSAL WORK & S.C	RS: 2594299/-
ii.	RISING MAIN ZONE D	RS: 3111710/-
iii.	PUMP HOUSE	RS: 471567/-
iv.	RCC SEWER	RS: 4921331/-
v.	COMPOUND WALL	RS: 863588/-
vi.	PUMPING MACHINERY	<u>RS: 2038645/-</u>
	TOTAL:-	RS:14001140/-

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS

SCHEDULE "B"

**NAME OF WORK:- PROVIDING & IMPROVEMENT OF SEWERAGE
ARRANGEMENT IN VARIOUS ZONES SEWERAGE LINE 18"
DIA & 12" DIA UC-1 TO UC-8 MIRPURKHAS CITY
DISTRICT MIRPURKHAS**

S.#	DESCRIPTION	QTY:	RATE	UNIT	AMOUNT
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PART-A FOR ZONE "B"

COLLECTING TANK 30' DIA & SCREENING CHAMBER

1. Excavations of well in dry upto 20' below grand level and disposal of soil or sand (GSI No.1a, P-92).

5162.0 Cft @Rs:2247/58 P%oCft Rs: 11602/-
2. Wet Sinking of well for depth of below spring level by means of divers i/c all charges for shoring loading and removing excavated material within one chain (GSI No.3 P-93)
 - i) From 0 upto 5' depth.

4500.00 Cft @Rs:11763/- P%oCft. Rs: 52934/-
 - ii) From 5 upto 10' depth.

4287.47 Cft @Rs:24200/- P%oCft. Rs: 103757/-
 - iii) From 15.0 upto 20' depth.

4146.0 Cft @Rs:37230/77 P%oCft. Rs: 154359/-
 - iv) From 15 upto 20' depth.

1658.0 Cft @Rs:50416/67 P%oCft. Rs: 83591/-
3. 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 1/16" to 1/4" gauge (GSI No.6 P-17).

2787.35Cft @Rs:337/- P.Cft Rs: 939337/-

4. 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(ii) P-32).
116.09 Cwt @Rs:5001/70 P.Cwt Rs: 580647/-
5. Providing Expansion jointing in concrete work of 9" wide corrugated PVC water staper with bulb i/c soldering and providing wooden of plank of the exact shape of structure and cost of material and labour etc complete (PHSI No.1 P-43).
348.54 Rft. @Rs:86/- P.Rft. Rs: 29974/-
6. Bailing or pumping sub-soil water during Excavation concreting cost in situ concrete or masonry work in foundation etc (PHSI No.1e, P-50).
23512.80 Cft @Rs:543/- P% Cft Rs: 128218/-
7. Cement Concrete brick or stone ballast 2x1 1/2' gauge (GSI No.5 P-16)
1525.0 ft @Rs:9416/28 P% Cft Rs:143598/-
8. 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 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, flags and temporary crossings for non Vehicular traffic where ever required lift upto 5 ft (1.52 mm) and lead upto one chain (30.50 mm) (PHSI No. 1(A) P-46).
320.0 Cft @Rs:3600/- P%oCft Rs: 1152/-
9. Excavation for pipe lines in trenches, and pits in wet soil clay or mud i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joints holes and disposal of surplus earth within a one chain as directed by Engineering Incharge, providing fence guards, lights, flags and temporary crossings for non vehicular traffic where ever required lift upto 5 ft (1.52 m) and lead upto one chain (30 50 m).(PHSI No. 14 P-66)
192.0 Cft @Rs:5950/- P%oCft Rs:1142/-
10. Providing RCC pipes of A.S.T.M-76-62, T/C-76-70, Class II Wall B and fixing in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to specified pressure (PHSI No.1(b)P-18)
18" dia.
16.0 Rft. @Rs:618/- P.Rft. Rs:9888/-
11. Refilling the excavated stuff in trench 6" thick layers i/c watering ramming to full compaction etc complete (PHSI No.24 P-47)
460.80 Cft @Rs:2760/- P%oCft Rs:1271/-

12. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate with out shuttering (GSI No.5(I) P-31).

Ratio (1:4:8)

757.00 Cft	@Rs:11288/75	P%Cft	Rs: 85343/-
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Ratio (1:3:6)

732.0 Cft	@Rs:12595/-	P%Cft.	Rs: 92195/-
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Ratio (1:2:4)

732.0 Cft	@Rs:14429/25	P%Cft	Rs: 105622/-
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13. Cement plaster 1:4 upto 20' height ½" thick (GSI No. 11/b, P-57).
Inside Collecting Tank

2373.84 Cft	@Rs:2283/93	P%Cft	Rs: 54217/-
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14. Supplying dampo (Sch: of mat I No.46 P-4).

61.0 Lbs	@Rs:56/82	P.Lbs	Rs: 3467/-
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15. p/f in position in c.c foundation 1:3:6 m.s ladder of m.s angle iron 2"x2"x1/4" 1' apart with m.s bar ¾" dia space 1' apart painting 3 coats with anticorrosive steel paint etc complete.(PHSI No:3 p- 55)

15.0 Rft	@Rs: 799/-	P.Rft	Rs: 11985/-
TOTAL:-			RS:2594299/-

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS

PART-B FOR ZONE "B"**RISING MAIN**

1. Dismantling & Removing Road Metaling.(GSI No:20 P-10).
1140.0 Cft @Rs: 605/- P%oCft Rs: 6897/-
2. Excavation for pipe line trenches pits tanks/reservoir in soft soil i/c trimming dressing side to true alignment and shape levelling 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).
70000.00 Cft @Rs: 3600/- P%oCft Rs: 252000/-
3. Providing laying & jointing & testing FC pressure pipe class "B" and fixing in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to a head of 122 meter or 400 ft. (PHSI No:D 1 P-20)
6" dia
10000.00 Rft @Rs:263/- P.Rft Rs: 2630000/-
4. Refilling the excavated stuff intrench 6" thick layer i/c watering ramming to full compaction etc complete (PHSI No.24 P-77).
60000.0 Cft @Rs:2760/- P%oCft Rs: 173880/-
5. C. Special for FC Pressure Pipe B class.
Bend 90*.
6" dia
4.0 Nos @Rs:2212/50 Each Rs: 8850/-
Tail piece
6" Dia 1x1 = 1.0 No
1.00 No @Rs:1787/50 Each Rs:1787/-
6. Far Hydrant Tee
6"x6"x3" dia
2.0 Nos @Rs:1687/50 Each Rs: 3375/-
7. Air Valve Double Acting
3" dia
2.0 Nos @Rs:4000 Each Rs: 8000/-
8. 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 joints @Rs:72/- P.Joint. Rs: 360/-

9. 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.			
4.0 joints	@Rs:938/-	P.Joint.	Rs: 3752/-
10. construction of masonry Chamber of (PHSI No: 10 P- 53)			
2 0 Nos	@Rs:14592/-	Each	Rs: 29184/-
		TOTAL:-	RS: 3111710/-

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS

PART-C FOR ZONE "B"PUMP HOUSE (12 X 14)

1. Excavation in foundation building bridges and other structures i/c dag belling dressing refilling around structure with excavated eater watering ramming lead upto 5'ft(In ordinary soil) (GSI No.18 P-18).
407.00 Cft @Rs: 3176/25 P%oCft. Rs:1356/-
2. Cement concrete Brick or stone Ballast ½" to 2" guage (ratio 1:4:8) (GSI No.4/b P-14)
167.0 Cft @Rs: 9416/28 P%oCft Rs:15725/-
3. Pucca brick work in foundation and plinth in cement sand mortar (1:6) (GSI No.4 P-24).
368.0 Cft @Rs: 9416/28 P%oCft. Rs:34652/-
5. 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 i, P-16).
509.00 Cft @Rs:337/- P.Cft Rs:171533/-
6. 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 bars (GSI No.8, P-16).
24 995 Cwt @Rs:5001/70 P.Cwt Rs:125017/-
7. Pucca brick work in ground floor in cement sand mortar 1:6 (GSI No.5e, P-20).
375.0 Cft @Rs:12674/36 P%oCft Rs:47529/-
8. Making & fixing steel grated door with 1/16" thick sheeting i/c angle iron frame 2"x2" 3/8" and ¼" square bars 4" centre to centre with locking arrangement (GSI No.24 P-91).
28.00 Sft @Rs:726/72 P.Sft Rs:20348/-
9. Fabrication of heavy steel work with angles iron tees flate iron and sheet iron for making trusses girders tands etc including cutting, drilling, reverting, handling, assembling and fixing but excluding in position (GSI No.2,P-91).
3.05 Cwt @Rs:2928/49 P.Cwt Rs:15032/-
10. Supplying & fixing in position iron / steel grill of ¾"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.Foot of finished grill) (GSI No.26 P-92)
36.00 Sft @Rs:180/50 P.Sft Rs:6498/-

11.	Cement Plaster 1:4 up to 20' height ½" thick (GSI No.13/b, P-57).			
	469.00 Sft	@Rs:2283/93	P%Sft	Rs:10712/-
12.	Cement pointing struck joints on walls (Ratio 1:3) (GSI No.19/b, P-52).			
	490.00 Sft	@Rs:1213/58	P%Sft	Rs:5947/-
13.	Providing and laying 1" thick topping cement concrete (1:2:4) i/c surface finishing and ciding into panels (GSI No.16,c, P-41).			
	<u>1 ½' thick Roof.</u>			
	305.00 Sft	@Rs:2548/29	P%Sft.	Rs:7772/-
	<u>2" thick Floor.</u>			
	158.00 Sft	@Rs:3275/50	P%Sft.	Rs:5503/-
14.	White Washing (GSI No.26/a P-53).			
	(a) Three Coat			
	273.0 Sft	@Rs:829/95	P%Sft.	Rs:2266/-
	(b) One Coat			
	469.0 Sft	@Rs:416/63	P%Sft.	Rs:1954/-
15.	Colour Washing (2 coats) (GSI No.25/b P-55).			
	959.0 Sft.	@Rs:859/90	P%Sft.	Rs:8246/-
16.	<u>Painting new surface.</u>			
	Preparing surface and painting of doors and window any type i/c edges. (GSI No.5/c P-76).			
	123.0 Sft.	@Rs:2116/41	P%Sft.	Rs:2709/-

		TOTAL:-		RS: 471567/-

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS

PART-D FOR ZONE "B"**RCC SEWER**

1. Dismantling & removing road metaling (GSI No. 51 P-14).

5994.00 Cft. @Rs:605/- P%oCft. Rs: 42314/-

2. 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 joint 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-46).

24" dia
12440.00 Cft @Rs: 3600/- P%oCft. Rs: 44784/-

3. Excavation for Pipe line wet soils clay or mud i/c trimming and dressing side of to true alignment and shape leveling of beds of trenches in 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, flags and temporary crossings for non vehicular traffic where ever required left upto 5 ft (1.52mm) and lead upto one chain (30.50m) (PHSI No.14, P-48).

24" dia
12539.00 Cft @Rs:5400/- P%oCft Rs: 67711/-

4. Excavation for pipe line in trenches, and pits in slushy or daldaly 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 flags and temporary crossings for non vehicular traffic where ever required lift upto 5 ft (1.52m) and lead upto one chain (30.50m) (PHSI No.15, P-49).

24" dia
20879.00 Cft @Rs:10800/- P%oCft Rs: 245493/-

5. Providing RCC Pipe of ASTM C-76-62 T/C-76-70 Class II Wall B and fixing in trench i/c cutting fitting and jointing with rubber ring i/c testing with water to specified pressured (PHSI No.B/1 P-18).

24" dia.
1676.0. Rft @Rs:869/- P.Rft. Rs:1456444/-

6. Bailing or pumping out sub soil water during excavation concreting cost in situ concrete or masonry work in foundation etc (PHSI No.18 P-52).

20879.00 Cft @Rs:543/- P%oCft Rs:113373 /-

7. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate with out shuttering (GSI No.5(I) P-31).

Ratio 1:4:8

564.00 Cft @Rs:11288/75 P%oCft Rs: 63669/-

Ratio 1:3:6

	420.00 Cft	@Rs:12595/-	P%Cft	Rs: 52899/-
8.	Naturally aggregate ring 1" Thick (SMI No. 72 Page No 7)			
	4714.00. Cft	@Rs:2200/-	P%Cft.	Rs:103708/-
9.	Providing & fixing driving open timbering to trenches for depth upto 10 ft.			
	10056.0 Sft	@Rs: 8340/-	P% Sft	Rs: 838670/-
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 creening 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 1/4" gauge (GSI No.6 P-17).			
	2290.00Cft	@Rs:337/-	P.Cft	Rs: 771730/-
11	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 bars (GSI No.7, P-19).			
	92.008 Cwt	@Rs:5001/70	P.Cwt.	Rs: 460196/-
12.	Refilling the excavated stuff in trenches 6" thick layers i/c watering ramming to full compaction etc complete (PHSI No.24 P-53).			
	41272.00Cft	@Rs:2760/-	P%0Cft	Rs 113911/-
13.	Providing & Fixing C.I. Man Hole Cover (PHSI No. 1 P-23).			
	68.00 Cwt	@Rs:6985/-	P.Cwt	Rs: 4749980/-
14.	Extra for every 50' ft lead or part thereof (a) for earth work (Soft, ordinary, hard and very hard (PHSI No.8 P-16)			
	6994 Cft	@Rs:3930/42	P%0Cft	Rs: 27489/-
17.	Manufacturing and supply RCC Man Hole Cover Casing 1:2:4 Ratio 4" Dia deep & Cement reinforcement with 1/2" Dia for Steel bars @ 3" to 1/4" Thick 3" Deep plate i/c caring staking and transportation @ site of work (R.A Approved)			
	34.00 Nos	@Rs:1881/18	Each	Rs: 63960/-
			TOTAL	Rs: 4921331/-

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS

PART -E FOR ZONE "B"**COMPOUND WALL**

1. Excavation in foundation building bridges and other structures i/c dag belling dressing refilling around structure with excavated eater watering ramming lead upto 5'ft(In ordinary soil) (GSI No.18 P-18).
1293.0 Cft @Rs: 3176/25 P%oCft. Rs:4107/-
2. Cement concrete brick or atone ballast 1 1/2" to 2" gauge. (GSI No.4 P-14)
326.62 Cft @RS: 9416/28 P.% Cft RS: 30791/-
3. Pucca brick work in foundation and plinth in cement sand mortar (1:6) (GSI No.4 P-24).
2133.0 Cft @Rs: 11948/36 P%Cft. Rs:254859/-
4. 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 1/4" gauge (GSI No.6 i, P-16).
416.0 Cft @Rs:337/- P.Cft Rs:140192/-
5. 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 bars (GSI No.8, P-16).
16.714 Cwt @Rs:5001/70 P.Cwt Rs:83598/-
6. Pucca brick work in other then building in cement sand mortor 1:6 (GSI No.5e, P-20).
490.0 Cft @Rs:12346/65 P%Cft Rs:60499/-
7. barrow pit excavation undressed lead upto 100 feet
17226.0 Cft @Rs2117/50 P %0 Cft RS: 36476/-
8. Earth work compaction (soft, ordinary or hard soil). (gsi no.13 p-03)
36979 Cft @Rs:354/- P%0Cft Rs:13091/-
9. Carriage of earth lead 3 mills.
17226.0 Sft @Rs:541/79 P%Sft Rs:93329/-
10. Making & fixing steel grated door with 1/16" thick sheeting i/c angle iron frame 2"x2" 3/8" and 3/4" square bars 4" centre to centre with locking arrangement (gsi no.24 p-91).
72.00 sft @rs:726/72 P.Sft Rs:52324/-

11.	Cement Plaster 1:4 up to 20' height ½" thick (GSI No.13/b, P-57).			
	4239.0 Sft	@Rs:2283/93	P%Sft	Rs:96816/-
12.	Cement pointing struck joints on walls (Ratio 1:3) (GSI No.19/b, P-52).			
	1370.00 Sft	@Rs:1213/58	P%Sft	Rs:16626/-
13.	White Washing (GSI No.26/a P-53).			
	(a) one Coat			
	1439.00 Sft	@Rs:416/63	P%Sft.	Rs:5997/-
14.	Color Washing (2 coats) (GSI No.25/b P-55).			
	2309.50 Sft.	@Rs:859/90	P%Sft.	Rs:24159/-
13.	<u>Painting new surface.</u>			
	Preparing surface and painting of doors and window any type i/c edges. (GSI No.5/c P-76).			
	2 Coats			
	144.0 Sft.	@Rs:2116/41	P%Sft.	Rs:3048/-

		TOTAL:-		RS: 863588/-

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG. DIVISION
MIRPURKHAS

PART -F FOR ZONE "B"**PUMPING MACHINERY****BHANSINGHABAD**

1. Supplying and Installing in position i/c transportation to site @ Zone "B" ~~Jamshed~~ **Bhansinghabad** work Electric Pumping Set of 1450 RPM (Siemens) made 20 BHP Electric Motor 3 phase 50 Cycles 400/420 volts with non-clogging KSB Pump type KWPz-80-400, size 4"x3" mounted on common steel frame on base plate (Capable of Discharge 360 GPM against the required head of 70 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 _____) 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:988700/-

P.Set

Rs: 988700/=

2. Supplying and Installing in position i/c transportation to site @ Zone "B" ~~Jamshed~~ **Bhansinghabad** work Diesel Engine Pumping Set of 1450 RPM (China) made 24 BHP Diesel Engine with non-clogging KSB pump type KWPz-80-400, size 4"x3" mounted on common steel frame on base plate (Capable of Discharge 360 GPM against the required head of 70 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:904400/-

P.Set

Rs:904400/=

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 (PHS of Mat: I No.1 P-32)

i) Suction 4" dia

60.0 Rft

@Rs:506/60

P.Rft

Rs: 30396/=

ii) Delivery 6" dia

30.0 Rft

@Rs:749/34

P.Rft

Rs: 22480/=

4. Manufacturing Supplying M.S flange of different area made out of M.S sheet cutting drilling holes and welding of flange with M.S Pipe etc complete (PHS No.1 P-).

4" dia

8.00 Nos

@Rs:596/75

P. Each

Rs:4774/-

6" dia

12.00 Nos

@Rs:408/77

P. Each

Rs:4905/-

5. C.I. Sluice valve heavy pattern (test pressure 300 lbs/sq: inch) (SOMI No.2 P-9).

6" dia

2 Nos.

@Rs:9360/-

Each

Rs:18720/=

6. C.I. Reflex valve heavy pattern (Test) pressure 300 lbs/sq:inch (SOMI No.P.10)

4" dia

2. Nos.

@Rs:1706/25

Each

Rs: 3413/=

7. C.I. Foot valve heavy pattern with cone type gate (Imported) (SOMI No.4 P.10)
- 4" dia
- | | | | |
|--------|------------|------|------------|
| 2 Nos. | @Rs:893/75 | Each | Rs: 1788/= |
|--------|------------|------|------------|
8. C.I. Bend with flanged ends with holes i/c turning and facing of flanges for all size (SOMI No.8 P-1)
- i) 4" dia 90°
ii) 6" dia 90°
- | | | | |
|----------|-----------|------|-------------|
| 204.0 Kg | @Rs:110/- | P.Kg | Rs: 22440/= |
|----------|-----------|------|-------------|
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)
- | | | | |
|-----|----------------|--|--|
| 4x6 | 1 x 15 = 15 kg | | |
| 6X6 | 3 x 12 = 36 Kg | | |
| | = 51 Kg | | |
- | | | | |
|--------|-----------|------|------------|
| 5" Kg. | @Rs:110/- | P.Kg | Rs: 5610/= |
|--------|-----------|------|------------|
10. C.I. Tee with flanged ends with holes i/c turning and facing of flanges for all sizes (SOMI No.7 P-11)
- Tee Equal 6" dia
- | | | | |
|------------|-----------|------|-------------|
| 100.00 Kg. | @Rs:120/- | P.Kg | Rs: 12000/= |
|------------|-----------|------|-------------|
11. C... Short Piece (SOMI No.9 P-15)
- 6" dia
- | | | | |
|-------|------------|------|-----------|
| 1 No. | @Rs:618/75 | Each | Rs: 619/= |
|-------|------------|------|-----------|
12. Laying C.I / MS Pipe 6" and (flanged) and special and fixing in trenches i/c cutting fitting and testing with water to specified pressure (PHSI No.1 P-54)
- i) 4" dia
- | | | | |
|-----------|----------|-------|-----------|
| 60.0 Rft. | @Rs:7/76 | P.Rft | Rs: 466/= |
|-----------|----------|-------|-----------|
- ii) 6" dia
- | | | | |
|----------|-----------|-------|-----------|
| 30.0 Rft | @Rs:11/64 | P.Rft | Rs: 349/= |
|----------|-----------|-------|-----------|
13. 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 the joint to the specified pressure etc complete (PHSI No.1 P-35)
- i) 4" dia
- | | | | |
|----------|-----------|---------|------------|
| 12. Nos. | @Rs:513/- | P.Joint | Rs: 6156/= |
|----------|-----------|---------|------------|
- iii) 6" dia
- | | | | |
|---------|-----------|---------|-------------|
| 11 Nos. | @Rs:938/- | P.Joint | Rs: 10318/- |
|---------|-----------|---------|-------------|

14. Painting New Surfaces

Preparing surface and painting of fillet framing skirting pipes gutters similar linear work not exceeding 6" inch (SOMI No.3 P-11)

Three Coats

M.S Pipe 4" dia

M.S Pipe 6" dia

90.0 Rft

@Rs:866/40

P%.Rft

Rs: 780 /=-

15. Cutting holes 4"x6" in stone masonry or brick wall with repairing masonry within (GSI No.72 P-113)

3 Nos.

@Rs:110/40

P.Hole

Rs: 331/=

TOTAL:-

Rs:2038645/=

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG. DIVISION
MIRPURKHAS

**PROVIDING & IMPROVEMENT OF SEWERAGE ARRANGEMENT IN VARIOUS
ZONES SEWERAGE LINE 18" DIA & 12" DIA UC-1 TO UC-8 MIRPURKHAS
CITY DISTRICT MIRPURKHAS**

PART "B"

PUMPING MACHINERY FOR ZONE D"

1. Supplying and Installing in position i/c transportation to site @ Zone "D" *SLD DISPOSAL WORK*
work Electric Pumping Set of 1450 RPM (Siemens) made 40 BHP Electric Motor 3 phase 50
Cycles 400/420 volts with non-clogging KSB Pump type KWPz-100-400, size 5"x4" mounted on
common steel frame on base plate (Capable of Discharge 625 GPM against the required head of
100 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 _____) 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:1099300/- P.Set Rs: 1099300/=
2. Supplying and Installing in position i/c transportation to site @ Zone "D" *SLD*
work Diesel Engine Pumping Set of 1450 RPM (China) made 60 BHP Diesel Engine with non-
clogging KSB pump type KWPz-100-400, size 5"x4" mounted on common steel frame on base
plate (Capable of Discharge 625 GPM against the required head of 100 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:984000/- P.Set Rs:984000/=
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 (PHS of Mat: I No.1 P-32)
i) Suction 8" dia

60.0 Rft @Rs:980/20 P.Rft Rs: 58812/=
- ii) Delivery 10" dia

30.0 Rft @Rs:1226/76 P.Rft Rs: 36803/=
4. Manufacturing Supplying M.S flange of different area made out of M.S sheet cutting drilling holes
and welding of flange with M.S Pipe etc complete
(PHSI No.1 P-).

8" dia

8.00 Nos @Rs:1002/44 P. Each Rs:8020/-

10" dia

12.00 Nos @Rs:1228/87 P. Each Rs:14746/-
5. C.I. Sluice valve heavy pattern (test pressure 300 lbs/sq. inch) (SOMI No.2 P-9).

10" dia

2 Nos. @Rs:27690/- Each Rs: 55380/=

6. C.I. Reflex valve heavy pattern (Test) pressure 300 lbs/sq:inch (SOMI No.P.10)
- 8" dia
- | | | | |
|---------|-------------|------|-------------|
| 2. Nos. | @Rs:7312/50 | Each | Rs: 14625/= |
|---------|-------------|------|-------------|
7. C.I. Foot valve heavy pattern with cone type gate (Imported) (SOMI No.4 P.10)
- 8" dia
- | | | | |
|--------|------------|------|------------|
| 2 Nos. | @Rs:2600/- | Each | Rs: 5200/= |
|--------|------------|------|------------|
8. C.I. Bend with flanged ends with holes i/c turning and facing of flanges for all size (SOMI No.8 P-11)
- i) 3" dia 90°
ii) 10" dia 90°
- | | | | |
|----------|-----------|------|-------------|
| 204.0 Kg | @Rs:110/- | P.Kg | Rs: 22440/= |
|----------|-----------|------|-------------|
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)
- 8"x6"
10"x6"
- | | | | |
|--------|-----------|------|------------|
| 51 Kg. | @Rs:110/- | P.Kg | Rs: 5610/= |
|--------|-----------|------|------------|
10. C. . Tee with flanged ends with holes i/c turning and facing of flanges for all sizes (SOMI No.7 P-11)
- Tee Equal 10" dia
- | | | | |
|------------|-----------|------|-------------|
| 140.00 Kg. | @Rs:120/- | P.Kg | Rs: 14800/= |
|------------|-----------|------|-------------|
11. C.I. Short Piece (SOMI No.9 P-15)
- 10" dia
- | | | | |
|-------|-------------|------|------------|
| 1 No. | @Rs:2212/50 | Each | Rs: 2213/= |
|-------|-------------|------|------------|
12. Laying C.I / MS Pipe 6" and (flanged) and special and fixing in trenches i/c cutting fitting and testing with water to specified pressure (PHSI No.1 P-54)
- i) 8" dia
60.0 Rft.
- | | | |
|-----------|-------|-----------|
| @Rs:15/52 | P.Rft | Rs: 931/= |
|-----------|-------|-----------|
- ii) 10" dia
30.0 Rft
- | | | |
|-----------|-------|-----------|
| @Rs:19/40 | P.Rft | Rs: 582/= |
|-----------|-------|-----------|
13. 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) 8" dia
12. Nos.
- | | | |
|-----------|---------|-------------|
| @Rs:940/- | P.Joint | Rs: 11280/= |
|-----------|---------|-------------|
- iii) 10" dia
11 Nos.
- | | | |
|------------|---------|-------------|
| @Rs:1576/- | P.Joint | Rs: 17336/- |
|------------|---------|-------------|

14. Painting New Surfaces

Preparing surface and painting of fillet framing skirting pipes gutters similar linear work not exceeding 6" inch (SOMI No.3 P-11)

Three Coats

M.S Pipe 8" dia

M.S Pipe 10" dia

90.0 Rft

@Rs:866/40

P%.Rft

Rs: 780/=

15. Cutting holes 4"x6" in stone masonry or brick wall with repairing masonry within (GSI No.72 P-113)

3 Nos.

@Rs:110/40

P.Hole

Rs: 331/=

TOTAL:-

Rs:2355189/=

(RASHEED AHMED SOOMRO)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
MIRPURKHAS

PART "C"**RISING MAIN FOR ZONE "D"**

1. Excavation for pipe line trenches pits tanks/reservoir in soft soil i/c trimming dressing side to true alignment and shape levelling 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-46).
88000.0Cft @Rs: 3600/- P%oCft. Rs: 316800/-
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.1 P-21)
12" dia
8000.0 Rft @Rs:816/- P.Rft Rs: 6528000/-
3. C.I Special for AC Pressure Pipe.
(SOMI No.13 P-12)
Bend 90*
12" dia 2. No @Rs:9912/50 Each Rs: 1982/-
Bend 45*
12" dia 1. No @Rs:6581/25 Each Rs: 6581/-
4. Fire hydrant tee.
12"x12"x3" dia 1. Nos @Rs:1687/50 Each Rs: 1687/-
5. Air Value Double Acting.
3" dia 1. No @Rs:4000/- Each Rs: 4000/-
6. A.C Extra color B class
12" dia 3. Nos @Rs: 591/- Each Rs: 1773/-
7. one pair extra rubber ring.
12" dia. 3. Pairs @Rs: 238/- p/pair Rs: 714/-
8. 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-41).
12" dia. 3.0 joints @Rs:120/- P.Joint. Rs: 360/-
9. Making 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).
3" dia.
1.0 joints @Rs:499/- P.Joint. Rs: 944/-

	12" dia. 2.0 joints	@Rs:2239/-	P.Joint.	Rs: 4478/-
10.	Refilling the excavated stuff intrench 6" thick layer i/c watering ramming to full compaction etc complete (PHSI No.24 P-53).			
	79200 Cft	@Rs:2760/-	P%oCft	Rs: 218592/-
11.	construction a masonry chamber for screen			
	1x1 1 No	@Rs: 14592/-	each	RS: 14592/-
TOTAL:-				RS:7100058/-

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PART "D"**RCC SEWER**

1. Dismantling & removing road metaling (GSI No. 51 P-14).
15" dia
18" dia
25958.0 Cft. @Rs:605/-- P%Cft. Rs: 157046-
3. 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-46).
15" dia
18" dia
43457.0 Cft @Rs: 3600/- P%oCft. Rs: 156445/-
3. Excavation for Pipe line wet soils clay or mud i/c trimming and dressing side of to true alignment and shape leveling of beds of trenches in 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, flags and temporary crossings for non vehicular traffic where ever required left upto 5 ft (1.52mm) and lead upto one chain (30.50m) (PHSI No.14, P-48).
15" dia
18" dia
54962.00 Cft @Rs:5400/- P%oCft Rs: 296795/-
4. Excavation for pipe line in trenches, and pits in slushy or daldaly 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 flags and temporary crossings for non vehicular traffic where ever required lift upto 5 ft (1.52m) and lead upto one chain (30.50m) (PHSI No.15, P-49).
15" dia
18" dia
59605.0 Cft @Rs:10800/- P%oCft Rs: 643734/-
5. Providing RCC Pipe of ASTM C-76-62 T/C-76-70 Class II Wall B and fixing in trench i/c cutting fitting and jointing with rubber ring i/c testing with water to specified pressured (PHSI No.B/1 P-18).
15" dia.
4000.0Rft @Rs:515/- P.Rft. Rs:2060000/-
18" dia.
3000.0 Rft @Rs:618/- P.Rft. Rs:1854000/-
6. Bailing or pumping out sub soil water during excavation concreting cost in situ concrete or masonry work in foundation etc (PHSI No.18 P-52).
59605.0 Cft @Rs:543/- P%Cft Rs:323655 /-
7. Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate with out shuttering (GSI No.5(I) P-31).
Ratio 1:4:8
2322.00 Cft @Rs:11288/75 P%Cft Rs: 262125/-

	<u>Ratio 1:3:6</u>			
	1731.00 Cft	@Rs:12595/-	P%Cft	Rs: 218019/-
8.	Naturally aggregate ring 1" Thick (SMI No. 72 Page No 7)			
	19688.0 Cft	@Rs:2200/-	P%Cft.	Rs:433136/-
9.	Providing & fixing driving open timbering to trenches for depth upto 10 ft.			
	28000.0 Sft	@Rs: 8340/-	P% Sft	Rs: 2335200/-
10	RCC work i/c labour and material except the cost of steel reinforcement and its labour for bending which will be paid separately. This rate also includes all kinds of forms mould lifting shuttering curing rendering and finishing the 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 1/4" gauge (GSI No.6 P-17).			
	12398.0 Cft	@Rs:337/-	P.Cft	Rs: 4178126/-
11	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 bars (GSI No.7, P-19).			
	498.133 Cwt	@Rs:5001/70	P.Cwt.	Rs: 2491512/-
12.	Refilling the excavated stuff in trenches 6" thick layers i/c watering ramming to full compaction etc complete (PHSI No.24 P-53).			
	142222.0 Cft	@Rs:2760/-	P%0Cft	Rs: 392533/-
13.	Providing & Fixing C.I. Man Hole Cover (PHSI No. 1 P-23).			
	280.00 Cwt	@Rs:6985/-	P.Cwt	Rs: 1955800/-
14.	Extra for every 50' ft lead or part thereof (a) for earth work (Soft, ordinary, hard and very hard (PHSI No.8 P-16)			
	25958.0 Cft	@Rs:3930/42	P%oCft	Rs: 102026/-
15.	Manufacturing and supply RCC Man Hole Cover Casing 1:2:4 Ratio 4" Dia deep & Cement reinforcement with 1/2" Dia for Steel bars @ 3" to 1/4" Thick 3" Deep plate i/c caring staking and transportation @ site of work (R.A Approved)			
	140.00 Nos	@Rs:1881/18	Each	Rs: 263362/-
				Total Rs.18123514/-

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PART "E"

CONSTRUCTION OF EARTHEN BUND

1. Barrow pit excavation undressed lead upto 100' or one chaine (GSI No:3 P-1).
360000.0 Cft @Rs: 2117/50 P%oCft Rs: 762300/-
 2. Laying Earth in 6" thick layers leveling dressing & watering for compaction etc complete (GSI No.13/b P-03).
360000.0 Cft @Rs:354/- P%oCft Rs: 127440/-
 3. Dressing & leveling earth to designed section etc complete (GSI No:11 (b) P-03).
360000.0Cft @Rs:187/55 P%oCft Rs: 67518/-
 4. Carriage of earth lead 2 miles
Qty Same as item No:1 = 360000.0Cft
360000.0Cft @Rs:502/52 P%oCft Rs: 1809072/-
- TOTAL:- RS: 2766330/-
Say: Rs: 2766400/-

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