

BIDDING DATA

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

Instructions to Bidders

Clause Reference

1.1 Name of Procuring Agency :-

Executive Engineer, Public Health Engg: Division Shikarpur

Brief Description of Works :-

Rehabilitation of (07) Nos: Drainage Scheme i.e Sultan Kot, Hamayoon, Rahimabad, Thanrhio, Jehan Khan, Boriri and Bado including (01) Year Operation & Maintenance.

5.1 (a) Procuring Agency's address:

**Opposite Qazi Habibullah High School Near PTCL Office
Lakhi Gate Shikarpur**

(b) Engineer's address:

Same as above

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

11.2 The bidder has the financial, technical and constructional capability necessary to perform the Contract as follows:

i. Financial capacity:

(See N.I.T Eligibility Criteria at Para-5)

ii. Technical capacity:;

(See N.I.T Eligibility Criteria at Para-5)

iii. Construction Capacity:

(See N.I.T Eligibility Criteria at Para-5)

- 12.1 (a) A detailed description of the Works, essential technical and performance characteristics.

(As Per Technically Sanctioned Estimate)

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

(As Per Technically Sanctioned Estimate)

13.1 **Amount of Bid Security**

2% of Rs: 36.00 Million i.e Rs: 0.720 Million

14.1 **Period of Bid Validity**

30 Days

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

One original plus **(02)** copies.

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

**Opposite Qazi Habibullah High School Near PTCL Office
Lakhi Gate Shikarpur**

15.1 **Deadline for Submission of Bids**

Time: **1:00** PM on **17-12-2015.**

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

Venue: **Executive Engineer, Public Health Engineering Division Shikarpur.**

Time: **2:00** P.M Date: **17-12-2015.**

16.4 **Responsiveness of Bids**

- (i) Bid is valid till required period,

- (ii) Bid prices are firm during currency of contract.

- (iii) Completion period offered is within specified limits,

- (iv) Bidder is eligible to Bid and possesses the requisite experience, capability and qualification.

- (v) Bid does not deviate from basic technical requirements and

- (vi) Bids are generally in order, etc.

Fixed Price contract:- In this contract no escalation will be provided during currency of the contract and normally period of completion of this work is upto (06) months.

FORM OF BID
(LETTER OF OFFER)

Bid Reference No.

Rehabilitation of (07) Nos: Drainage Scheme i.e Sultan Kot, Hamayoon, Rahimabad, Thanrhio, Jehan Khan, Boriri and Bado including (01) Year Operation & Maintenance.

To:

Executive Engineer,
Public Health Engg: Division,
Shikarpur.

Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Contract Data, Specifications, Drawings, if any, Schedule of Prices and Addenda Nos.

_____ for the execution of the above-named works, we, the undersigned, being a company doing business under the name of and address _____

_____ and being duly incorporated under the laws of Pakistan hereby offer to execute and complete such works and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Bid Price of Rs _____ (Rupees _____) or such other sum as may be ascertained in accordance with the said Documents.

2. We understand that all the Schedules attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of _____

_____ drawn in your favour or made payable to you and valid for a period of twenty eight (28) days beyond the period of validity of Bid.

4. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s) stated in Contract Data.
5. We agree to abide by this Bid for the period of _____ days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We undertake, if our Bid is accepted, to execute the Performance Security referred to in Conditions of Contract for the due performance of the Contract.
8. We understand that you are not bound to accept the lowest or any bid you may receive.
9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a bid for the Works.

Dated this _____ day of _____, 20

Signature _____

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

(Name of Bidder in Block Capitals)

(Seal)

Address

Witness:

(Signature) _____

Name: _____

Address: _____

[SCHEDULES TO BID INCLUDE THE FOLLOWING:

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

SCHEDULE - A TO BID

SCHEDULE OF PRICES – SUMMARY OF BID PRICES

Bill No.	Description	Total Amount (Rs)
1.	<u>Public Health Engineering Works.</u> Rehabilitation of (07) Nos: Drainage Scheme i.e Sultan Kot, Hamayoon, Rahimabad, Thanrhio, Jehan Khan, Boriri and Bado including (01) Year Operation & Maintenance	Rs: 36.00 (Million)
	Total Bid Price (The amount to be entered in Paragraph 1 of the Form of Bid) (In words). Rupees:- <u>Thirty Six Millions</u>	

SCHEDULE – C TO BID

WORKS TO BE PERFORMED BY SUBCONTRACTORS*

Name of Work:- **Rehabilitation of (07) Nos: Drainage Scheme i.e Sultan Kot, Hamayoon, Rahimabad, Thanrhio, Jehan Khan, Boriri and Bado including (01) Year Operation & Maintenance.**

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

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

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

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

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

PROPOSED PROGRAMME OF WORKS

Name of Work:- **Rehabilitation of (07) Nos: Drainage Scheme i.e Sultan Kot, Hamayoon, Rahimabad, Thanrhio, Jehan Khan, Boriri and Bado including (01) Year Operation & Maintenance.**

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

METHOD OF PERFORMING WORKS

Name of Work:- **Rehabilitation of (07) Nos: Drainage Scheme i.e Sultan Kot, Hamayoon, Rahimabad, Thanrhio, Jehan Khan, Boriri and Bado including (01) Year Operation & Maintenance.**

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

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

SCHEDULE – F TO BID

(INTEGRITY PACT)

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

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

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

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

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

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

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

.....
[Procuring Agency]

[Contractor]

SPECIFIC WORKS DATA

Name of Work:-

Rehabilitation of (07) Nos. Drainage Scheme i.e Sultankot, Hamayoon, Rahimabad, Thanhrio, Jehankhan, Boriri and Bado including (01) Year Operation & Maintenance.

Sr. No.	Name of Scheme	Schedule Items Amount	Non-Schedule Items Amount	Total Amount
1	Sub-Work No. I Rehabilitation of DS Sultan Kot	4145726	2755210	6900936
2	Sub-Work No. II Rehabilitation of DS Hamayoon	3822670	424000	4246670
3	Sub-Work No. III Rehabilitation of DS Rahimabad	4030923	601788	4632711
4	Sub-Work No. IV Rehabilitation of DS Thanhrio	3328165	803588	4131753
5	Sub-Work No. V Rehabilitation of DS Jehan Khan	3344858	517899	3862757
6	Sub-Work No. VI Rehabilitation of DS Boriri	3155468	629328	3784796
7	Sub-Work No. VII Rehabilitation of DS Bado	3968824	340000	4308824
TOTAL		25796636	6071812	31868447

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR

CONDITIONS

- 1 The work will be carried out as per PWD/PHE specification.
- 2 No premium will be allowed on non-schedule items.
- 3 Any error and omission in the description or item of work then rate shall be governed with the relevant schedule of rates and technically sanctioned estimate.
- 4 The contractor shall have to bring the material to the site of work from quarries mentioned in the technically sanctioned estimate.

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR

SCHEDULE OF PRICES

Name of Work:-

Rehabilitation of (07) Nos. Drainage Scheme i.e Sultankot, Hamayoon, Rahimabad, Thanhrio, Jehankhan, Boriri and Bado including (01) Year Operation & Maintenance.

Head of Account:-

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-WORK NO: I REHABILITATION OF DRAINAGE SCHEME SULTAN KOT**SUB-WORK NO: 1 CONSTRUCTION OF SURFACE DRAINS**

1	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18/ P/4)	6170.00	Cft	@Rs 3176.25	P%o Cft	Rs 19597
2	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering. (G.S.I - 5 P/15) A) Ratio 1:4:8	859.00	Cft	@Rs 11288.75	P% Cft	Rs 96970
	<u>B) Ratio 1:2:4</u>	500.87	Cft	@Rs 14429.25	P% Cft	Rs 72272
3	Construction of standard open type drains concrete block of C.C 1:2:4 cost of situ to the design profiles i/c cost of mould as per drawing i/c supplying floating cost of cement 1/32" thick to expose surface faces finished smooth curing complete as per drawing design. (P.H.S.I No.D, P/58)					
	<u>Type-A</u>	800.00	Rft	@Rs 94.00	P-Rft	Rs 75200
	<u>Type-B</u>	500.00	Cft	@Rs 174.00	P-Rft	Rs 87000
4	Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4 P/ 19)	4275.00	Cft	@Rs 11948.36	P% Cft	Rs 510792
5	Cement plaster (1:4) up to 20'height ½"thick (G.S.I-11/ P/51)	8875.00	Sft	@Rs 2283.93	P% Sft	Rs 202699
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	205.56	Cft	@Rs 337.00	P-Cft	Rs 69272
7	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 includes removal of rust from bars. (G.S.I- 8 P/16)	7.340	Cwt	@Rs 5001.70	P-Cwt	Rs 36712
8	Earth work excavation in ashes sand 50 ft soil or silt clearance undressed lead upto 50 ft. (CSI No: 2, P-1)	2751.49	Cft	@Rs 1663.75	P%o Cft	Rs 4576
9	Extra for wet earth work. (CSI No:15, P. No.3)	2751.49	Cft	@Rs 1058.75	P%o Cft	Rs 2913

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
10	Extra for every 50' additional lead or part thereof. (CSI No.8, P.No.2)	2751.49 Cft	@Rs 1914.82	P%o Cft	Rs 5269
Total					Rs 1183273

SUB-WORK NO: 2 REPAIR OF PUMPING MACHINERY I/C SUCTION DELIVERY

1	Supplying and Installing in Position transportation at site of Drainage Scheme Sultan Kot Taluka & District Shikarpur Electric Motor Set 10 BHP (KSB Made) 4 Pole 1500 RPM 3-Phase VAC 50 Cycles coupled with KSB Non-Clogging Sludge Pump (Type- KWPZ-65-315) mounted on common steel frame or base plate capable of discharging 170 gallons per minute against a head of 40' i/c installing of Pumping Set on C.C foundation Ratio 1:4:8 and Ratio 1:2:4 with ballast with M.S nuts and bolts of 5/7.5 dia to be embedded in C.C Foundation i/c Providing & Fixing Star Delta Starter complete with not volt & over lead release & required i/c Providing & Fixing in prepared board iron clad triple pole & natural switch fuse with rewirable type fuse link carried 500 volts grade 30 ampre & Providing & Fixing volt meter board accomondation main or sub-main control swtiches released in the wall size 3x21/2 i/c Providing phase indicating bulbs with holder & Provides internal electric wiring for main swtich with 3.7/0.85 (7/0.036) PVC insulated wire 660 volts grade in 25 mm (1") PVC required i/c Providing & Fixing earthing set with 0.6m x	2	Sets	@Rs 697000.00	P. Set	Rs 1394000
2	Providing, Laying & Fixing in trenches i/c fitting, jointing & testing etc complete in all respect the high density polythlene P.E Pipe (HDPE-100) for W/S confirming ISO 4427/DIN 8074/8075 B.S 3580 & PSI 3051. (PHSI No. F(1), P.No.25) P.N-10	41.00	Rft	@Rs 178.00	P. Rft	Rs 7298
3	Providing M.S Pipe madeout of M.S Sheet 3/16" Thick. (based on schedule rate)	20.00	Rft	@Rs 385.89	P. Rft	Rs 7718
4	Providing M.S mechanical flange 3/8". (based on schedule rate)	18.00	Nos.	@Rs 500.89	Each	Rs 9016
5	C.I bend with flanged ends with holes i/c turning and facing flanged for all size (PHS(M)I No.8 P-14)	0.89	Cwt	@Rs 6096.00	P. Cwt	Rs 5425
6	C.I tapered flat bottomed or central tapered flanged end with holes i/c turning facing flanged for all size. (PHS(M)I No.9 P. No.12)	0.33	Cwt	@Rs 6096.00	P. Cwt	Rs 2012
7	C.I Tee flat bottomed or central tapered flanged end with holes i/c turning facing flanged for all size. (PHS(M)I No.12 P. No.12)	0.375	Cwt	@Rs 6096.00	P. Cwt	Rs 2286
8	C.I sluice valve heavy pattern test pressure 21kg /sq. cm or 300 lbs / sq inch. (PHS(M). I No.2, P.11)	2.00	Nos.	@Rs 4290.00	Each	Rs 8580
9	Reflex Valve heavy pattern test pressure 21kg /sq. cm or 300lbs / sq inch. (PHS(M)I No.6, P.No.11)	4.00	Nos.	@Rs 1543.75	Each	Rs 6175
10	C.I Foot valve heavy pattern with cone type gate. (PHS(M) No. 4, P-11)	2.00	Nos.	@Rs 731.25	Each	Rs 1463
11	Jointing C.I / M.S flanged and specials pipes and inside a trenches i/c supplying of the rubber packing of the required thickness nuts bolts and washers etc and other tools required for jointing and testing the joints in the specifics pressure etc complet	18.00	joints	@Rs 499.00	P.joint	Rs 8982
12	Flange Adapter. (NSI)	18.00	Nos.	@Rs 675.00	Each	Rs 12150
13	Buttfussion Joint. (SMI No.11, P-20)	18.00	Nos.	@Rs 600.00	Each	Rs 10800

Total Rs 1475905

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-WORK NO: 3 REPAIR OF DISPOSAL WORK

1	Dismantling Cement Concrete reinforced seperating reinforcement from concrete cleaning and straightening the same. (CSI No. 20, P-10)	98.65	Cft	@Rs 5445.00	P% Cft	Rs 5371
2	Pacca brick work Other then building in cement sand mortar(1:6) (G.S.I No. 7 P/ 21)	22.50	Cft	@Rs 12346.65	P% Cft	Rs 2778
3	R.C.C work i/c all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or prrecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (C.S.I-6 P/16)	100.48	Cft	@Rs 337.00	P.Cft	Rs 33863
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 includes removal of rust from bars. (G.S.I- 8 P/16) Using Tor Bars	4.03	Cwt	@Rs 5001.70	P. Cwt	Rs 20157
5	Providing Laying 3" thick topping cement concrete Ratio 1:2:4 i/c surface finishing dividing into panel (CSI No.16, P.41)	120.00	Sft	@Rs 4411.82	P% Sft	Rs 5294
6	Cement plaster 1:6 upto 12' height 1/2" thick. (CSI No: 13, P-51)	654.50	Sft	@Rs 2206.60	P% Sft	Rs 14442
7	Cement plaster 1:4 upto 12' height 1/2" thick. (CSI No: 11, P-51)	1406.53	Sft	@Rs 2197.52	P% Sft	Rs 30909
8	Cement pointing struck joints on walls. (CSI No: 19/b, P-52) Ratio 1:3	500.00	Sft	@Rs 1213.58	P% Sft	Rs 6068
9	Painting new surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 4 (c), P-67) 3 Coats	104.00	Sft	@Rs 1160.06	P% Sft	Rs 1206
10	White washing two coats. (G.S.I No. 26, P.No. 53)	549.50	Sft	@Rs 425.84	P% Sft	Rs 3618
11	Color washing two coats. (G.S.I No. 25, P.No. 59)	1154.50	Sft	@Rs 859.90	P% Sft	Rs 9928
12	Cleaning of collecting tank / sump below ground level i/c dewatering of sludge water and disposal of garbage solid waste etc outside the tank etc complete. (PHSI No: I, P-59)	1396.38	Cft	@Rs 11900.00	P%oCft	Rs 16617
13	Fabrication of heavy steel work with angles, tees, flate iron, round iron and sheet iron for making truses, gaders, tants etc including cutting, tanks and including cutting, drilling, reveating, handling, assembling and fixing but excluding errection in position (CSI No.2, P.No.90)	2.96	Cwt	@Rs 4928.49	p.cwt	Rs 14631

Total Rs 164882

SUB-WORK NO: 4 REPAIR OF COMPOUND WALL

1	Dismantling Brick Work in lime or cement mortar (GSI No. 13, P-10)	108.00	Cft	@Rs 1285.63	P% Cft	Rs 1388
2	Pacca brick work other than building including stiking of joints upto 20' height. (CSI No.7, P.No.21) Ratio 1:6	230.75	Cft	@Rs 12346.65	P% Cft	Rs 28490
3	Cement plaster 1:6 upto 12' height 1/2" thick. (CSI No: 13, P-51)	384.44	Sft	@Rs 2206.60	P% Sft	Rs 8483
4	Cement plaster 1:4 upto 12' height 3/8" thick. (CSI No: 11, P-51)	1870.84	Sft	@Rs 2197.52	P% Sft	Rs 41112
5	Cement pointing struck joints on walls. (CSI No: 19, P-52) Ratio 1:3	1120.00	Sft	@Rs 1213.58	P% Sft	Rs 13592

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
6	Making & Fixing steel grated doors with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8 and 3/4" square bars 4" centre to centre with locking arrangement. (S.I. No. 24, P-91)	60.00	Sft @Rs 726.22	P% Sft	Rs 43603
7	Painting new surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69)	120.00	Sft @Rs 2116.41	P% Sft	Rs 2540
8	White washing One coat (G.S.I No. 26, P.No. 53)	387.44	Sft @Rs 416.63	P% Sft	Rs 7794
9	Color washing Two coats (G.S.I No. 25, P.No. 53)	2990.84	Sft @Rs 859.90	P% Sft	Rs 25718
Total					Rs 172720

SUB-WORK NO: 5 F.C RISING MAIN

1	Excavation for pipe lines in trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal or surplus earth within a one chain as directed by Engineering incharge providing fence guards. Lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5ft: (1.52m)and lead upto one chain (30.50m) (PHSI No.1, P.No.60)	224.00	Cft @Rs 3600.00	P%o Cft	Rs 80640
2	Providing Laying Jointing Fiber Cement (FC) pipe and commit joint of Class "B" and fixing in trenche i/c cutting fitting and jointing with rubber ring i/c testing with water to head of 122 meter or 400 ft. (PHSI No.1, P.No.20)	2000.00	Rft @Rs 785.06	P. Rft	Rs 1570120
	8" Dia				
	6" Dia	1200.00	Rft @Rs 472.53	P. Rft	Rs 567036
3	Special cost iron fitting.				
	C.I Bend 90 Degree (SMI No.1, P.No.13)	2.00	Nos @Rs 2212.50	Each	Rs 4425
	6" Dia				
	8" Dia	2.00	Nos @Rs 3312.50	Each	Rs 6625
4	C.I Jibault Joints. (SMI No.14, P.No.17)	3.00	Nos @Rs 1062.50	Each	Rs 3188
	8" Dia				
5	C.I Tee. (SMI No. 6, P.No. 14)	1.00	Nos @Rs 3687.50	Each	Rs 3688
6	F.C Comet Joint (PHSI No. 2, P-21)	2.00	Joints @Rs 194.00	Each	Rs 388
	6" Dia				
	8" Dia	2.00	Joints @Rs 292.00	Each	Rs 584
7	Supplying & Fixing F.C rubber ring (PHSI No.3, P.No.21) 6" Dia	4.00	Nos @Rs 129.00	Each	Rs 516
	8" Dia	4.00	Nos @Rs 161.00	Each	Rs 644
8	Making Joint to C.I Special fitting i/c laying of the required diameter and testing the joints alongwith the fiber cement pressure pipes lines to the specified pressure & making good to all leaky joints etc complete. (PHSI No.1, P-35. (PHSI No. 1, P-80) 8" Dia	2.00	Nos @Rs 72.00	Each	Rs 144
	6" Dia	2.00	Nos @Rs 72.00	Each	Rs 144
9	Refilling the excavated stuff on trenches 6"thick leveling i/c watering raming full compaction etc Complete. (PHSI No.24, P-77)	20160.00	Cft @Rs 2760.00	P%o Cft	Rs 55642
Total					Rs 2293784

SUB-WORK NO: 6 BRICK PAVEMENT

1	Barrow pit excavation undressed lead upto 100 ft ordinary soil (G.S.I. No. 3 P-1)	9452.67	Cft @Rs 2117.50	P%o Cft	Rs 20016
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Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
2	Earth work compaction (Soft ordinary or hard soil lying earth in 6" layers leveling dressing and watering for compaction etc complete.(G.S.I.No. 13 P-3)	9452.67 Cft	@Rs 263.00	P%o Cft	Rs 2486
3	Dry Brick on edge paving sand grouted i/c preparation of bed by watering ramming to the proper chamber ½" thick mud plaster. (CSI No: 5, P-39)	5000.00 Sft	@Rs 3823.57	P% Sft	Rs 191179
4	Extra for every 50 ft additional lead part thereof.	9452.67 Cft	@Rs 5039.00	P%o Cft	Rs 47632

Total Rs 261313

SUB-WORK NO: 7 REPAIR OF TRANSFORMER 25 KVA

1	Rewinding of Transformer 25KVA i/c transportation loading unloading from site to workshop and return to site and testing etc complete. (M.R)	3.00 Coils	@Rs 15000.00	P. Coil	Rs 45000
	Transformer Oil	80.00 Ltr	@Rs 580.00	P. Ltr	Rs 14400
	Labour Charges	1.00 Job	@Rs 5000.00	P.Job	Rs 5000
	Supply & Fixing Main PVC Copper Wire 3-7/044	30.00 Mtr	@Rs 422.00	P. Mtr	Rs 12660

Total Rs 77060

SUB-WORK NO: 8 ANNUAL OPERATION & MAINTENANCE COST

A) Establishment (For 01 No. Disposal Work

i)	Pump Operator. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000
ii)	Chowkidar. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000
iii)	Sweeper. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000

B Annual Repair Charges

a)	Repair of Electric Motor & Pump etc completed. (M.R)	1.00 Job	@Rs 100000.0	P-Job	Rs 100000
b)	Oil Lubrication / Cotton Waste etc complete. (M.R)	24.00 Nos:	@Rs 3000.0	Each	Rs 72000

Total Rs 424000

For 03 Nos: Disposal Work = 424000 x 3

Rs 1272000

SUB-ABSTRACT OF DRAINAGE SCHEME SULTAN KOT				
Sr. No.	Item of Work	Schedule Items	Non-Schedule Items	Total
1	Construction of Surface Drains	1183273	0	1183273
2	Pumping Machinery i/c Suction Delivery	69754	1406150	1475904
3	Repair of Disposal Work	164882	0	164882
4	Repair of Compound Wall	172720	0	172720
5	F.C Rising Main	2293784	0	2293784
6	Brick Pavement	261313	0	261313
7	Repair of Transformer 25 KVA	0	77060	77060
8	Operation & Maintenance Cost for 1 Year	0	1272000	1272000
	Total	4145726	2755210	6900936

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR

SCHEDULE OF PRICES

Name of Work:-

Rehabilitation of (07) Nos. Drainage Scheme i.e Sultankot, Hamayoon, Rahimabad, Thanhrio, Jehankhan, Boriri and Bado including (01) Year Operation & Maintenance.

Head of Account:- _____

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-WORK NO: II REHABILITATION OF DRAINAGE SCHEME HAMAYOON

SUB-WORK NO: 1 CONSTRUCTION OF SURFACE DRAINS

1	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18/ P/4)	5809.82 Cft	@Rs 3176.25	P%o Cft	Rs 18453
2	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering. (G.S.I - 5 P/15) A) Ratio 1:4:8	1264.96 Cft	@Rs 11288.75	P% Cft	Rs 142798
	<u>B) Ratio 1:2:4</u>	48.40 Cft	@Rs 14429.25	P% Cft	Rs 6984
3	Construction of standard open type drains connuttee block of C.C 1:2:4 cost of situ to the design profiles i/c cost of mould as per drawing i/c supplying floating cost of cement 1/32" thick to expose surface faces finished smooth curing complete as per drawing design. (P.H.S.I No.D, P/58)				
	<u>Type-A</u>	1471.00 Rft	@Rs 94.00	P-Rft	Rs 138274
	<u>Type-B</u>	500.00 Cft	@Rs 174.00	P-Rft	Rs 87000
4	Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4 P/ 19)	6631.50 Cft	@Rs 11948.36	P% Cft	Rs 792355
5	Cement plaster (1:4) up to 20'height ½"thick (G.S.I-11/ P/51)	15727.64 Sft	@Rs 2283.93	P% Sft	Rs 359208
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or pprecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	381.80 Cft	@Rs 337.00	P-Cft	Rs 128667
7	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 includes removal of rust from bars. (G.S.I- 8 P/16)	13.640 Cwt	@Rs 5001.70	P-Cwt	Rs 68223
8	Earth work excavation in ashes sand 50 ft soil or silt clearance undressed lead upto 50 ft. (CSI No: 2, P-1)	4530.00 Cft	@Rs 1663.75	P%o Cft	Rs 7537
9	Extra for wet earth work. (CSI No:15, P. No.3)	4530.00 Cft	@Rs 1058.75	P%o Cft	Rs 4796
10	Extra for every 50' additional lead or part thereof. (CSI No.8, P.No.2)	4530.00 Cft	@Rs 5039.00	P%o Cft	Rs 22827

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
11	Dry Brick on edge paving sand grouted i/c preparation of bed by watering ramming to the proper chamber ½" thick mud plaster. (CSI No: 5, P-39)	6000.00 Sft	@Rs 3823.57	P% Sft	Rs 229414
Total					Rs 2006537

SUB-WORK NO: 2 REPAIR OF STAFF QUARTER

1	Dismantling Cement Concrete reinforced seperating reinforcement from concrete cleaning and straightening the same. (CSI No. 20, P-10)	54.94 Cft	@Rs 5445.00	P% Cft	Rs 2991
2	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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or prrecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	54.94 Cft	@Rs 337.00	P.Cft	Rs 18515
3	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 includes removal of rust from bars. (G.S.I- 8 P/16) Using Tor Bars	1.96 Cwt	@Rs 5001.30	P. Cwt	Rs 9803
4	Providing Laying 3" thick topping cement concrete Ratio 1:2:4 i/c surface finishing dividing into panel (CSI No.16, P.41)	192.00 Sft	@Rs 4411.82	P% Sft	Rs 8471
5	Cement plaster 1:4 upto 12' height 1/2" thick. (CSI No: 13, P-51)	560.00 Sft	@Rs 2283.93	P% Sft	Rs 12790
6	Fabrication of heavy steel work with angles, tees, flate iron, round iron and sheet iron for making truses, gaders, tants etc including cutting, tanks and including cutting, drilling, reveating, handling, assembling and fixing but excluding errection in position. (CSI No. P-)	5.43 Cwt	@Rs 4928.49	p.cwt	Rs 26762
7	Painting new surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69) 3 Coats	128.00 Sft	@Rs 2116.41	P% Sft	Rs 2709
8	White washing two coats. (G.S.I No. 26, P.No. 53)	1716.00 Sft	@Rs 425.84	P% Sft	Rs 7307
9	Color washing two coats. (G.S.I No. 26, P.No. 53)	1716.00 Sft	@Rs 859.90	P% Sft	Rs 14756
Total					Rs 104104

SUB-WORK NO: 3 P.E RISING MAIN 6" DIA

1	Excavation for pipe lines in trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal or surplus earth within a one chain as directed by Engineering incharge providing fence guards. Lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5ft: (1.52m)and lead upto one chain (30.50m) (PHSI No.1, P.No.60)	18900.00 Cft	@Rs 3600.00	P%o Cft	Rs 68040
2	Providing Laying Jointing P.E pipes in trenche i/c cutting fitting and jointing with testing etc complete in all respect the high density polythlene P.E Pipes (HDPE-100) (PHSI No.1, P.No.20) 6" Dia	2700.00 Rft	@Rs 440.00	P. Rft	Rs 1188000

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
3	Special cost iron fitting. P.E Bend 90 Degree (SMI No:1, P-18) 6" Dia	3.00 Nos	@Rs 3480.00	Each	Rs 10440
4	Bult Fusion Joint. 6" dia	3.00 Nos	@Rs 1000.00	Each	Rs 3000
5	Refilling the excavated stuff on trenches 6"thick leveling i/c watering raming full compaction etc Complete. (PHSI No.24, P-77)	17010.00 Cft	@Rs 2760.00	P%o Cft	Rs 46948
Total					Rs 1316428

SUB-WORK NO: 4 DEVELOPMENT OF DISPOSAL WORK

1	Barrow pit excavation undressed lead upto 100 ft ordinary soil (G.S.I. No. 3 p/ 1)	6795.94 Cft	@Rs 2117.50	P%o Cft	Rs 14390
2	Earth work compaction (Soft ordinary or hard soil lying earth in 6" layers leveling dressing and watering for compaction etc complete.(G.S.I.No. 13 P/ 3)	6796.00 Cft	@Rs 263.00	P%o Cft	Rs 1787
3	Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4 P/ 19)	130.50 Cft	@Rs 11948.36	P% Cft	Rs 15593
4	Cement plaster 1:4 upto 20' height 1/2" thick. (CSI No: 13, P-51)	1628.00 sft	@Rs 2283.93	P% Sft	Rs 37182
5	Cement concrete plain i/c placing compacting, finishing and curing complete i/c s/w of stone aggregate without shuttering (Ratio 1:2:4) (C.S.I-5 P/15)	21.75 Cft	@Rs 11288.75	P% Cft	Rs 2455
	Extra for every 50 ft additional lead of part thereof.	67.95.94 cft	@Rs 5039.00	P%o Cft	Rs 34245
6	Dry Brick on edge paving sand grouted i/c preparation of bed by watering ramming to the proper chamber 1/2" thick mud plaster. (CSI No: 5, P-39)	1248.00 Sft	@Rs 3823.57	P% Sft	Rs 47718
Total					Rs 153371

SUB-WORK NO: 5 OXIDATION POND

1	Excavation for tanks and reservoirs in soft soil i/c trimming dressing sides to true alignment / section profiles and shape, leveling of beds of tanks 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 Incharge i/c providing fence guards, lights, flags wherever required, lift up to 5 feet (1.52M) and lead upto one chain (30.5M). (PHSI No: 15, P-49)	17269.00 Cft	@Rs 3000.00	P%o Cft	Rs 51807
2	Excavation for tanks and reservoirs in wet soil i/c trimming dressing sides to true alignment / section profiles and shape, leveling of beds of tanks 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 Incharge i/c providing fence guards, lights, flags wherever required, lift up to 5 feet (1.52M) and lead upto one chain (30.5M). (PHSI No: 15, P-49)	5418.00 Cft	@Rs 4800.00	P%o Cft	Rs 26006
3	Earth Work Compaction soft ordinary or hard soil laying earth in 6"layers leveling dressing and watering for compaction etc complete. (GSI No: 13, P-3)	21696.00 Cft	@Rs 263.00	P%o Cft	Rs 5706
4	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18/ P/4)	298.50 Cft	@Rs 3176.25	P%o Cft	Rs 948

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
5	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering. (G.S.I-5 P/17) Ratio 1:4:8	33.17 Cft	@Rs 11288.75	P% Cft	Rs 3744
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (G.S.I-6 P/16)	259.00 Cft	@Rs 337.00	P.Cft	Rs 87283
7	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 includes removal of rust from bars. (G.S.I- 8 P/16)	10.40 Cwt	@Rs 5001.70	P.Cwt	Rs 52018
8	Excavation for pipe lines in trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineering Incharge providing fence guards, lights, flags and temporary crossing of non vehicular traffic wherever required lift upto 5 ft (1.52m) and upto one chain (30.50m) (PHSI No: 1, P-60)	252.00 Cft	@Rs 3600.00	P%o Cft	Rs 907
9	Providing RCC pipes A.S.T.M C-76-62 T/C 76-70 Class II wall B and fixing in trench i/c cutting, fitting and joint with rubber ring i/c testing with water to specified pressure. (PHSI No: 4, P-2)	32.00 Rft	@Rs 412.00	P.Rft	Rs 13184
10	Refilling the excavated stuff on trenches 6"thick leveling i/c watering raming full compaction etc Complete. (PHSI No.24, P-77)	227.00 Cft	@Rs 2760.00	P%o Cft	Rs 627

Total Rs 242230

SUB-WORK NO: 6 ANNUAL OPERATION & MAINTENANCE COST

A) Establishment

i) Pump Operator. (M.R)	12.00	Months	@Rs 7000.0	P-Month	Rs 84000
ii) Chowkidar. (M.R)	12.00	Months	@Rs 7000.0	P-Month	Rs 84000
iii) Sweeper. (M.R)	12.00	Months	@Rs 7000.0	P-Month	Rs 84000

B Annual Repair Charges

a) Repair of Electric Motor & Pump etc completed. (M.R)	1.00	Job	@Rs 100000.0	P-Job	Rs 100000
b) Oil Lubrication / Cotton Waste etc complete. (M.R)	24.00	Nos:	@Rs 3000.0	Each	Rs 72000

Total Rs 424000

SUB-ABSTRACT OF DRAINAGE SCHEME HAMAYOON				
Sr. No.	Item of Work	Schedule Items	Non-Schedule Items	Total
1	Construction of Surface Drains	2006537	0	2006537
2	Repair of Staff Quarter	104104	0	104104
3	P.E Rising Main 6" Dia	1316428	0	1316428
4	Development of Disposal Work	153371	0	153371
5	Oxidation Pond	242230	0	242230
6	Operation & Maintenance Cost for 1 Year	0	424000	424000
	Total	3822670	424000	4246670

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR

SCHEDULE OF PRICES

Name of Work:-

Rehabilitation of (07) Nos. Drainage Scheme i.e Sultankot, Hamayoon, Rahimabad, Thanhrio, Jehankhan, Boriri and Bado including (01) Year Operation & Maintenance.

Head of Account:-

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-WORK NO: III REHABILITATION OF DRAINAGE SCHEME RAHIMABAD**SUB-WORK NO: 1 CONSTRUCTION OF SURFACE DRAINS**

1	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18/ P/4)	7090.00 Cft	@Rs 3176.25	P%o Cft	Rs 22520
2	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering. (G.S.I - 5 P/15) A) Ratio 1:4:8	1585.00 Cft	@Rs 11288.75	P% Cft	Rs 178927
	<u>B) Ratio 1:2:4</u>	96.80 Cft	@Rs 14429.25	P% Cft	Rs 13968
3	Construction of standard open type drains concrete block of C.C 1:2:4 cost of situ to the design profiles i/c cost of mould as per drawing i/c supplying floating cost of cement 1/32" thick to expose surface faces finished smooth curing complete as per drawing design. (P.H.S.I No.D, P/58)				
	<u>Type-A</u>	2000.00 Rft	@Rs 94.00	P-Rft	Rs 188000
	<u>Type-B</u>	500.00 Cft	@Rs 174.00	P-Rft	Rs 87000
4	Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4 P/19)	13926.80 Cft	@Rs 11948.36	P% Cft	Rs 1664024
5	Cement plaster (1:4) up to 20'height 1/2"thick (G.S.I-11/ P/51)	34488.00 Sft	@Rs 2283.93	P% Sft	Rs 787682
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (C.S.I-6 P/16)	535.20 Cft	@Rs 337.00	P-Cft	Rs 180362
7	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 includes removal of rust from bars. (G.S.I- 8 P/16)	19.110 Cwt	@Rs 5001.70	P-Cwt	Rs 95582
8	Earth work excavation in ashes sand 50 ft soil or silt clearance undressed lead upto 50 ft. (CSI No: 2, P-1)	11304.92 Cft	@Rs 1663.75	P%o Cft	Rs 18809
9	Extra for wet earth work. (CSI No:15, P. No.3)	11304.92 Cft	@Rs 1058.75	P%o Cft	Rs 11969

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
10	Extra for every 50' additional lead or part thereof. (CSI No.8, P.No.2)	1304.90 Cft	@Rs 5039.00	P%o Cft	Rs 56965
Total					Rs 3305808

SUB-WORK NO: 2 REPAIR OF STAFF QUARTER

1	Dismantling Cement Concrete reinforced seperating reinforcement from concrete cleaning and straightening the same. (CSI No. 20, P-10)	155.60 Cft	@Rs 5445.00	P% Cft	Rs 8472
2	Pacca brick work in ground floor and in cement sand mortar(1:6) (G.S.I No. 5 P/ 20)	108.75 Cft	@Rs 12674.36	P% Cft	Rs 13783
3	R.C.C work i/c all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (C.S.I-6 P/16)	143.03 Cft	@Rs 337.00	P.Cft	Rs 48201
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 includes removal of rust from bars. (G.S.I- 8 P/16) Using Tor	5.74 Cwt	@Rs 5001.70	P. Cwt	Rs 28710
5	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering. (G.S.I - 5 P/15) A) Ratio 1:4:8	72.00 Cft	@Rs 11288.75	P% Cft	Rs 8128
6	Providing Laying 3" thick topping cement concrete Ratio 1:2:4 i/c surface finishing dividing into panel (CSI No.16, P.41)	192.00 Sft	@Rs 4411.82	P% Sft	Rs 8471
7	Cement plaster 1:6 upto 12' height 1/2" thick. (CSI No: 13, P-51)	1201.50 Sft	@Rs 2206.60	P% Sft	Rs 26512
8	Cement plaster 1:4 upto 20' height 3/8" thick. (CSI No: 13, P-51)	1201.50 Sft	@Rs 2197.50	P% Sft	Rs 26403
9	Fabrication of heavy steel work with angles, tees, flate iron, round iron and sheet iron for making truses, gaders, tants etc including cutting, tanks and including cutting, drilling, reveating, handling, assembling and fixing but excluding errection in postion. (CSI No. P-)	2.08 Cwt	@Rs 4928.49	p.cwt	Rs 10242
10	Supplying and fixing in position iron steel grill of 3/4" x 1/4" size flat iron of approved desing i/c painting 03 coats etc complete (weight not be less than 3 lbs / sq: foot of finished grill (GSI No: 26, P-92)	24.00 Sft	@Rs 180.50	P.Sft	Rs 4332
11	Painting new surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69) 3 Coats	104.00 Sft	@Rs 2116.41	P% Sft	Rs 2201
12	White washing two coats. (G.S.I No. 26, P.No. 53)	1532.50 Sft	@Rs 425.84	P% Sft	Rs 6526
13	Color washing two coats. (G.S.I No. 26, P.No. 53)	1532.50 Sft	@Rs 859.90	P% Sft	Rs 13178
Total					Rs 205159

SUB-WORK NO: 3 REPAIR OF COMPOUND WALL

1	Dismantling Brick Work in lime or cement mortar (GSI No. 13, P-11)	76.50 Cft	@Rs 1285.63	P% Cft	Rs 984
2	Pacca brick work other than building including stiking of joints upto 20' height. (CSI No.7, P.No.21) Ratio 1:6	216.36 Cft	@Rs 12346.65	P% Cft	Rs 26713

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
4	Cement plaster 1:4 upto 12' height 3/8" thick. (CSI No: 13, P-51)	1583.00	Sft @Rs 2283.93	P% Sft	Rs 36155
5	Cement pointing struck joints on walls. (CSI No: 11, P-51) Ratio 1:3	1336.00	Sft @Rs 1213.58	P% Sft	Rs 16213
7	Painting old surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69) 3 Coats	72.00	Sft @Rs 1160.06	P% Sft	Rs 835
8	White washing One coat (G.S.I No. 26, P.No. 53)	1563.00	Sft @Rs 425.84	P% Sft	Rs 6656
9	Color washing Two coats (G.S.I No. 24, P.No. 60)	2899.00	Sft @Rs 425.84	P% Sft	Rs 12345
Total					Rs 99901

SUB-WORK NO: 4 REPAIR OF PUMPING MACHINERY I/C SUCTION DELIVERY

1	Supplying and Installing in Position transportation of site of Drainage Scheme Thanhrio Taluka Khanpur District Shikarpur Electric Pumping Set 1450 RPM (China) M.S Brand made by 10 BHP 3 Phase 50 cycles coupled Golden Non-clogging pump (GSWG-103) Size 4"x3" mounted on common steel frame or base plate capable of discharging 170 gallons per minute against a head of 40' i/c installing of Pumping Set on C.C foundation Ratio 1:4:8 and Ratio 1:2:4 with ballast with M.S nuts and bolts of 5/7.5 dia to be embedded in C.C Foundation i/c Providing & Fixing Star Delta Starter complete with not volt & over lead release & required i/c Providing & Fixing in prepared board iron clad triple pole & natural switch fuse with rewirable type fuse link carried 500 volts grade 30 ampre & Providing & Fixing volt meter board accomodation main or sub-main control switches released in the wall size 3x21/2 i/c Providing phase indicating bulbs with holder & Provides internal electric wiring for main switch with 3.7/0.85 (7/0.036) PVC insulated wire 660 volts grade in 25 mm (1") PVC required i/c Providing & Fixing earthing set with 0.6m x 6.3mm 2'x 21/2 C.I plate buried in the ground at depth 2.7 mm (12) or less per BAK BMD	1	Sets	@Rs 219000.0	P. Set	Rs 219000
INTERCONNECTION						
1	Providing, Laying & Fixing in trenches i/c fitting, jointing & testing etc complete in all respect the high density polythlene P.E Pipe (HDPE-100) for W/S confirming ISO 4427/DIN 8074/8075 B.S 3580 & PSI 3051. (PHSI No. F(1), P.No.25) P.N-10					
	3" Dia for Suction	24.00	Rft	@Rs 178.0	P-Rft	Rs 4272
	For Delivery 4" Dia	30.00	Rft	@Rs 268.0	P-Rft	Rs 8040
2	Supplying C.I Sulice valve heavy pattern test pressure 21.0 kg sq cm 300 lbs sq inch. (M.R)	3.00	Nos:	@Rs 4290.0	Each	Rs 12870
3	Supplying Reflex valve heavy pattern test pressure 21.0 kg sq cm 300 lbs sq inch. (R.A)	6.00	Nos:	@Rs 1543.8	Each	Rs 9263
4	C.I Foot Valve heavy pattern with type. (SMOI No. 4, P-10)	3.00	Nos:	@Rs 731.3	Each	Rs 2194
5	C.I Bend with flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 8, P-11)	0.78	Cwt	@Rs 6096.0	P-Cwt	Rs 4755
6	M.S Pipe made out of M.S Sheet 3/16"					
	3" Dia	16.00	Rft	@Rs 385.89	P-Rft	Rs 6174
	4" Dia	8.00	Rft	@Rs 506.60	P-Rft	Rs 4053
7	M.S Flange 3/8" Thick.					
	3" Dia	12.00	Nos:	@Rs 500.89	P-Rft	Rs 6011
	4" Dia	12.00	Nos:	@Rs 596.75	P-Rft	Rs 7161
8	Butt Fusion Joint.					
	3" Dia	9.00	Nos:	@Rs 600.00	P-Rft	Rs 5400
	4" Dia	6.00	Nos:	@Rs 1000.00	P-Rft	Rs 6000
9	Flange Adapter. (NSI)					
	3" Dia	9.00	Nos:	@Rs 675.00	P-Rft	Rs 6075
	4" Dia	12.00	Nos:	@Rs 1215.00	P-Rft	Rs 14580
10	C.I Tapered Central flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 9, P-11)	0.56	Cwt	@Rs 6096.0	P-Cwt	Rs 3414

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
11	Supplying C.I Tee Flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 11, P-11)	0.356 Cwt	@Rs 6096.0	P-Cwt	Rs 2170
12	Jointing C.I / M.S flanged and specials pipes and inside a trenches i/c supplying of the rubber packing of the required thickness nuts bolts and washers etc and other tools required for jointing and testing the joints in the specifics pressure etc complet				
	4" Dia	12.00 Nos:	@Rs 513.00	P-Rft	Rs 6156
	3" Dia	20.00 Nos:	@Rs 499.00	P-Rft	Rs 9980
Total					Rs 337567

SUB-WORK NO: 5 BRICK PAVEMENT

1	Barrow pit excavation undressed lead upto 100 ft ordinary soil (G.S.I. No. 3, P-1)	10824.00 Cft	@Rs 2117.50	P%o Cft	Rs 22920
2	Earth work compaction (Soft ordinary or hard soil lying earth in 6" layers leveling dressing and watering for compaction etc complete.(G.S.I.No. 13 P/ 3)	10824.00 Cft	@Rs 263.00	P%o Cft	Rs 2847
3	Dry Brick on edge paving sand grouted i/c preparation of bed by watering ramming to the proper chamber ½" thick mud plaster. (CSI No: 5, P-39)	7500.00 Sft	@Rs 3823.57	P% Sft	Rs 286768
4	Earth Work from Nearest Canal. (2 Miles)	10824.00 Cft	@Rs 407.00	P%o Cft	Rs 44054
Total					Rs 356588

SUB-WORK NO: 6 ANNUAL OPERATION & MAINTENANCE COST

A) Establishment

i)	Pump Operator. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000
ii)	Sweeper. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000

B Annual Repair Charges

a)	Repair of Electric Motor & Pump etc completed. (M.R)	1.00 Job	@Rs 100000.0	P-Job	Rs 100000
b)	Oil Lubrication / Cotton Waste etc complete. (M.R)	24.00 Nos:	@Rs 3000.0	Each	Rs 72000

Total Rs 340000

<u>SUB-ABSTRACT OF DRAINAGE SCHEME RAHIMABAD</u>				
Sr. No.	Item of Work	Schedule Items	Non-Schedule Items	Total
1	Construction of Surface Drains	3305808	0	3305808
2	Repair of Staff Quarter	205159	0	205159
3	Repair of Compound Wall	99901	0	99901
4	Pumping Machinery	63467	261788	325255
5	Brick Pavement	356588	0	356588
6	Operation & Maintenance Cost for 1 Year	0	340000	340000
Total		4030923	601788	4632711

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR

SCHEDULE OF PRICES

Name of Work:-

Rehabilitation of (07) Nos. Drainage Scheme i.e Sultankot, Hamayoon, Rahimabad, Thanhrio, Jehankhan, Boriri and Bado including (01) Year Operation & Maintenance.

Head of Account:- _____

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-WORK NO: IV REHABILITATION OF DRAINAGE SCHEME THANHRIO**SUB-WORK NO: 1 CONSTRUCTION OF SURFACE DRAINS**

1	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18/ P/4)	4279.00	Cft	@Rs 3176.25	P%o Cft	Rs 13591
2	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering. (G.S.I - 5 P/15) A) Ratio 1:4:8	904.75	Cft	@Rs 11288.75	P% Cft	Rs 102135
	<u>B) Ratio 1:2:4</u>	95.83	Cft	@Rs 14429.25	P% Cft	Rs 13828
3	Construction of standard open type drains connuttee block of C.C 1:2:4 cost of situ to the design profiles i/c cost of mould as per drawing i/c supplying floating cost of cement 1/32" thick to expose surface faces finished smooth curing complete as per drawing design. (P.H.S.I No.D, P/58)					
	<u>Type-A</u>	950.00	Rft	@Rs 94.00	P-Rft	Rs 89300
	<u>Type-B</u>	440.00	Cft	@Rs 174.00	P-Rft	Rs 76560
4	Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4 P/19)	6136.50	Cft	@Rs 11948.36	P% Cft	Rs 733211
5	Cement plaster (1:4) up to 20'height ½"thick (G.S.I-11/ P/51)	14589.00	Sft	@Rs 2283.93	P% Sft	Rs 333203
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or pprecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	220.20	Cft	@Rs 337.00	P-Cft	Rs 74207
7	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 includes removal of rust from bars. (G.S.I- 8 P/16)	7.860	Cwt	@Rs 5001.70	P-Cwt	Rs 39314
8	Earth work excavation in ashes sand 50 ft soil or silt clearance undressed lead upto 50 ft. (CSI No: 2, P-1)	4622.00	Cft	@Rs 1663.75	P%o Cft	Rs 7690
9	Extra for wet earth work. (CSI No:15, P. No.3)	4622.00	Cft	@Rs 1058.75	P%o Cft	Rs 4894
10	Extra for every 50' additional lead or part thereof. (CSI No.8, P.No.2)	4622.00	Cft	@Rs 5039.00	P%o Cft	Rs 23290
					Total	Rs 1511222

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
SUB-WORK NO: 2 REPAIR OF DISPOSAL WORK					
1	Dismantling Cement Concrete reinforced seperating reinforcement from concrete cleaning and straightening the same. (CSI No. 20, P-10)	236.24 Cft	@Rs 3327.50	P% Cft	Rs 7861
2	Dismantling Pacca Brick work in cement sand mortar. (CSI No. 13, P-10)	352.50 Cft	@Rs 1285.63	P% Cft	Rs 4532
3	Damp proof course with (cement sand and shingle concrete 1:2:4) i/c 2 coasts of asphaltic mixture. (CSI No: 28, P-18) 3" Thick	52.64 Sft	@Rs 4982.18	P% Sft	Rs 2623
4	Pacca brick work in ground floor in cement sand mortar(1:6) (G.S.I No. 5 P/ 20)	534.94 Cft	@Rs 12674.36	P% Cft	Rs 67800
5	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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (C.S.I-6 P/16)	258.61 Cft	@Rs 337.00	P.Cft	Rs 87152
6	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 includes removal of rust from bars. (G.S.I- 8 P/16) Using Tor Bars	10.39 Cwt	@Rs 5001.70	P. Cwt	Rs 51968
7	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering. (G.S.I - 5 P/15) A) Ratio 1:4:8	102.96 Cft	@Rs 11288.75	P% Cft	Rs 11623
8	Pacca brick work other than building in cement sand mortar(1:6) (G.S.I No. 4 P/ 19)	182.32 Cft	@Rs 12346.65	P% Cft	Rs 22510
9	Providing Laying 3" thick topping cement concrete Ratio 1:2:4 i/c surface finishing dividing into panel (CSI No.16, P.41)	312.00 Sft	@Rs 4411.82	P% Sft	Rs 13765
10	Cement plaster 1:4 upto 12' height 1/2" thick. (CSI No: 13, P-51)	1772.00 Sft	@Rs 2283.93	P% Sft	Rs 40471
11	Cement pointing struck joints on walls. (CSI No: 19/b, P-59) Ratio 1:3	1034.00 Sft	@Rs 1213.58	P% Sft	Rs 12548
12	Fabrication of heavy steel work with angles, tees, flate iron, round iron and sheet iron for making truses, gaders, tants etc including cutting, tanks and including cutting, drilling, reveating, handling, assembling and fixing but excluding erection in postion. (CSI No. P-)	8.82 Cwt	@Rs 4928.49	p.cwt	Rs 43469
13	Supplying and Fixing in position iron steel grill of 3/4" x 1/4" size flat iron of approved design i/c painting 03 coats etc complete (weight not be less than 3 lbs / sq: foot of	48.00 Sft	@Rs 180.50	P.Sft	Rs 8664
14	Cleaning of collecting tank / sump below ground level i/c dewatering of sludge water and disposal of garbage solid waste etc outside the tank etc complete. (PHSI No: I, P-33)	631.00 Cft	@Rs 11900.00	P%oCft	Rs 7509
15	Small Iron work such as gusset plate kness bends, strirups, rings etc including cutting, drilling, reverting, handling, assembling and fixing but excluding erection in position. (GSI No. 1, P-90)	2.75 Cwt	@Rs 6420.61	P.Cwt	Rs 17657

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
16	Barrow pit excavation undressed lead upto 100 ft ordinary soil. (CSI No: 3, P-1)	13524.65 Cft	@Rs 2117.50	P%o cft	Rs 28638
17	Earth work compaction (Soft ordinary or hard soil lying earth in 6" layers leveling dressing and watering for compaction etc complete.(G.S.I.No. 13 P/ 3)	13524.65 Cft	@Rs 263.00	P%o Cft	Rs 3557
18	Dry Brick on edge paving sand grouted i/c preparation of bed by watering ramming to the proper chamber ½" thick mud plaster. (CSI No: 5, P-39)	1500.00 Sft	@Rs 3823.57	P% Sft	Rs 57354
19	Painting new surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69) 3 Coats	208.00 Sft	@Rs 2116.41	P% Sft	Rs 4402
20	White washing two coats. (G.S.I No. 26, P.No. 53)	1810.25 Sft	@Rs 425.84	P% Sft	Rs 7709
21	Color washing two coats. (G.S.I No. 26, P.No. 53)	2180.00 Sft	@Rs 859.90	P% Sft	Rs 18746
22	Earth Work from Nearest Canal. (1 Mile)	13525.00 Cft	@Rs 4070.00	P%o Cft	Rs 55047
Total					Rs 575604

SUB-WORK NO: 3 CONSTRUCTION OF COMPOUND WALL

1	Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4 P/ 19)	1014.00 Cft	@Rs 11948.36	P% Cft	Rs 121156
2	Damp proof course with (cement sand and shingle concrete 1:2:4) i/c 2 coasts of asphaltic mixture. (CSI No: 28, P-18)	381.94 Sft	@Rs 4982.18	P% Sft	Rs 19029
3	Pacca brick work in other than building including stiking of joints upto 20' height. (CSI No.7, P.No.21) Ratio 1:6	571.90 Cft	@Rs 12346.65	P% Cft	Rs 70610
4	Cement plaster 1:4 upto 12' height 3/8" thick. (CSI No: 13, P-51)	1470.00 Sft	@Rs 2283.93	P% Sft	Rs 33574
5	Cement pointing struck joints on walls. (CSI No: 11, P-51) Ratio 1:3	1352.00 Sft	@Rs 1213.58	P% Sft	Rs 16408
6	Making & Fixing steel grated doors with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8 and 3/4" square bars 4" centre to centre with locking arrangement. (S.I. No. 24, P-91)	50.00 Sft	@Rs 726.72	P% Sft	Rs 36336
5	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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or prrecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	65.37 Cft	@Rs 337.00	P.Cft	Rs 22030
6	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 includes removal of rust from bars. (G.S.I- 8 P/16) Using Tor Bars	2.33 Cwt	@Rs 5001.70	P. Cwt	Rs 11654
7	Painting new surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69) 3 Coats	100.00 Sft	@Rs 2116.41	P% Sft	Rs 2116

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
8	White washing three coat (G.S.I No. 26, P.No. 53)	1470.00	Sft @Rs 829.95	P% Sft	Rs 12200
9	Color washing Three coats (G.S.I No. 24, P.No. 60)	2822.00	Sft @Rs 859.90	P% Sft	Rs 24266
Total					Rs 369380

SUB-WORK NO: 4 PUMPING MACHINERY I/C SUCTION DELIVERY

1	Supplying and Installing in Position transportation at site of Drainage Scheme Thanhirio Taluka Khanpur District Shikarpur Electric Motor Set 10 BHP (KSB Made) 4 Pole 1500 RPM 3-Phase 400 VAC 50 Cycles coupled with KSB Non-Clogging Sludge Pump (Type-GSWA) Size 4"x3" mounted on common steel frame or base plate capable of discharging 170 gallons per minute against a head of 40' i/c installing of Pumping Set on C.C foundation Ratio 1:4:8 and Ratio 1:2:4 with ballast with M.S nuts and bolts of 5/7.5 dia to be embedded in C.C Foundation i/c Providing & Fixing Star Delta Starter complete with not volt & over lead release & required i/c Providing & Fixing in prepared board iron clad triple pole & natural switch fuse with rewirable type fuse link carried 500 volts grade 30 ampere & Providing & Fixing volt meter board accomodation main or sub-main control switches released in the wall size 3x21/2 i/c Providing phase indicating bulbs with holder & Provides internal electric wiring for main switch with 3.7/0.85 (7/0.036) PVC insulated wire 660 volts grade in 25 mm (1") PVC required i/c Providing & Fixing earthing set with 25mm ² 2/0.010 Cables bonded to	1	Sets	@Rs 219000.0	P. Set	Rs 219000
1	P/F P.E Pipe HDPE-100 (P-N-10) 3" Dia for Suction	24.00	Rft	@Rs 178.0	P-Rft	Rs 4272
	For Delivery 4" Dia	30.00	Rft	@Rs 268.0	P-Rft	Rs 8040
2	Supplying C.I Sulice valve heavy pattern test pressure 21.0 kg sq cm 300 lbs sq inch. (M.R)	3.00	Nos:	@Rs 4290.0	Each	Rs 12870
3	Supplying Reflex valve heavy pattern test pressure 21.0 kg sq cm 300 lbs sq inch. (R.A)	6.00	Nos:	@Rs 1543.8	Each	Rs 9263
4	C.I Foot Valve heavy pattern with type. (SMOI No. 4, P-10)	3.00	Nos:	@Rs 731.3	Each	Rs 2194
5	C.I Bend with flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 8, P-11)	0.78	Cwt	@Rs 6096.0	P-Cwt	Rs 4755
6	M.S Pipe made out of M.S Sheet 3/16" 3" Dia	16.00	Rft	@Rs 385.89	P-Rft	Rs 6174
	4" Dia	8.00	Rft	@Rs 506.60	P-Rft	Rs 4053
7	M.S Flange 3/8" Thick. 3" Dia	12.00	Nos:	@Rs 500.89	P-Rft	Rs 6011
	4" Dia	12.00	Nos:	@Rs 596.75	P-Rft	Rs 7161
8	Butt Fusion Joint. 3" Dia	9.00	Nos:	@Rs 600.00	P-Rft	Rs 5400
	4" Dia	6.00	Nos:	@Rs 1000.00	P-Rft	Rs 6000
9	Flange Adapter. (NSI) 3" Dia	9.00	Nos:	@Rs 675.00	P-Rft	Rs 6075
	4" Dia	12.00	Nos:	@Rs 1215.00	P-Rft	Rs 14580
10	C.I Tapered Central flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 9, P-11)	0.56	Cwt	@Rs 6096.0	P-Cwt	Rs 3414
11	Supplying C.I Tee Flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 11, P-11)	0.356	Cwt	@Rs 6096.0	P-Cwt	Rs 2170

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
12	Jointing C.I / M.S flanged and specials pipes and inside a trenches i/c supplying of the rubber packing of the required thickness nuts bolts and washers etc and other tools required for jointing and testing the joints in the specifics pressure etc complete (CSI No. P-)				
	4" Dia	12.00	Nos: @Rs 513.00	P-Rft	Rs 6156
	3" Dia	20.00	Nos: @Rs 499.00	P-Rft	Rs 9980
	Repair of Electric Motor 10 BHP				
1	Rewinding of Electric Motor 10 BHP with copper wire i/c warnishing and testing etc complete.	1.00	joints @Rs 10599.00	P.Job	Rs 10599
2	Motor Control Unit MCU/SD____ HP 10 A consists of circuit-breaker, magnetic contractor, overload protection, under/over Voltage protection, Phase Failure protection, Ammeter with current transformer, voltmeters with potential transformer automaic Star Delta change over switch, control and power cables, indicating lights and all these components are fixed in a metalic dust and smoke proof box Nice made. (MEECO PAKISTAN)	1.00	No. @Rs 27800.00	each	Rs 27800
	Repair of Nice Pump Size 4"x3"				
	Supplying & Fixing New Shaft. (M.R)	1.00	No. @Rs 4500.00	each	Rs 4500
				Total	Rs 380466
	<u>SUB-WORK NO: 5 P.E RISING MAIN 6" DIA</u>				
1	Excavation for pipe lines in trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal or surplus earth within a one chain as directed by Engineering incharge providing fence guards. Lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5ft: (1.52m)and lead upto one chain (30.50m) (PHSI No.1, P.No.60)	11200.00	Cft @Rs 3600.00	P%o Cft	Rs 40320
2	Providing Laying Jointing P.E pipes in trenche i/c cutting fitting and jointing with testing etc complete in all respect the high density polythlene P.E Pipes (HDPE-100) (PHSI No.1, P.No.20) 6" Dia	1600.00	Rft @Rs 440.00	P. Rft	Rs 704000
3	Special cost iron fitting. P.E Bend 90 Degree (SMI No:1, P-18) 6" Dia	3.00	Nos @Rs 3480.00	Each	Rs 10440
4	Bult Fusion Joint 6" dia	3.00	Nos @Rs 1000.00	Each	Rs 3000
5	Refilling the excavated stuff on trenches 6"thick leveling i/c watering raming full compaction etc Complete. (PHSI No.24, P-77) 6" Dia	10080.00	Cft @Rs 2760.00	P%o Cft	Rs 27821
				Total	Rs 785581
	<u>SUB-WORK NO: 6 REPAIR OF TRANSFORMER</u>				
1	Rewinding of Transformer 25KVA i/c transportation loading unloading from site to workshop and return to site and testing etc complete. (M.R)	3.00	Coils @Rs 15000.00	P. Coil	Rs 45000
	Transformer Oil	80.00	Ltr @Rs 180.00	P. Ltr	Rs 14400
	Labour Charges	1.00	Job @Rs 5000.00	P.Job	Rs 5000
	Supply & Fixing Main PVC Copper Wie 3-7/.044	50.00	Mtr @Rs 422.00	P. Mtr	Rs 21100
				Total	Rs 85500
	<u>SUB-WORK NO: 7 ANNUAL OPERATION & MAINTENANCE COST</u>				
	A) Establishment				
i)	Pump Operator. (M.R)	12.00	Months @Rs 7000.0	P-Month	Rs 84000

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
ii)	Chowkidar. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000
iii)	Sweeper. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000
B Annual Repair Charges					
a)	Repair of Electric Motor & Pump etc completed. (M.R)	1.00 Job	@Rs 100000.0	P-Job	Rs 100000
b)	Oil Lubrication / Cotton Waste etc complete. (M.R)	24.00 Nos:	@Rs 3000.0	Each	Rs 72000
Total					Rs 424000

SUB-ABSTRACT OF DRAINAGE SCHEME THANHRIO				
Sr. No.	Item of Work	Schedule Items	Non-Schedule Items	Total
1	Construction of Surface Drains	1511222	0	1511222
2	Repair of Disposal Work	575604	0	575604
3	Repair of Compound Wall	369380	0	369380
4	Pumping Machinery i/c Suction Delivery	86378	294088	380466
5	P.E Rising Main	785581	0	785581
6	Repair of Transformer 25 KVA	0	85500	85500
7	Operation & Maintenance Cost for 1 Year	0	424000	424000
Total		3328165	803588	4131753

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR

SCHEDULE OF PRICES

Name of Work:-

Rehabilitation of (07) Nos. Drainage Scheme i.e Sultankot, Hamayoon, Rahimabad, Thanhrio, Jehankhan, Boriri and Bado including (01) Year Operation & Maintenance.

Head of Account:- _____

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-WORK NO: V REHABILITATION OF DRAINAGE SCHEME JAHAN KHAN**SUB-WORK NO. 1 CONSTRUCTION OF SURFACE DRAINS**

1	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (C.S.I-18/ P/4)	5880.00	Cft	@Rs 3176.25	P%o Cft	Rs 18676
2	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:4:8 (C.S.I-5 P/15)	1282.50	Cft	@Rs 11288.75	P% Cft	Rs 144778
	B) Ratio 1:2:4	58.50	Cft	@Rs 14429.25	P% Cft	Rs 8441
3	Pacca brick work in foundation and plinth in cement sand mortar(1:6)	3375.00	Cft	@Rs 11948.36	P% Cft	Rs 403257
4	Construction of standard open type drains connuttee block of C.C 1:2:4 cost of situ to the design profiles i/c cost of mould as per drawing i/c supplying floating cost of cement 1/32" thick to expose surface faces finished smooth curing complete as per drawing design. (P.H.S.I No.D, P/58)					
	Type-A	1500.00	Rft	@Rs 94	P-Rft	Rs 141000
	Type-B	500.00	Rft	@Rs 174	P-Rft	87000
5	Cement plaster (1:4) up to 20'height ½"thick (C.S.I-11/ P/51)	5250.00	Sft	@Rs 2283.93	P% Sft	Rs 119906
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	60.00	Cft	@Rs 337	P-Cft	Rs 20220
7	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 includes removal of rust from bars. (C.S.I-8, P/16)	2.14	Cwt	@Rs 5001.7	P-Cwt	Rs 10704

Total:- Rs 953982**SUB-WORK NO. 2 REPAIR OF EXISTING SURFACE DRAINS**

1	Pacca brick work in foundation and plinth in cement sand mortar(1:6). (G.S.I No. 4 P/ 19)	6937.50	Cft	@Rs 11948.36	P%Cft	Rs 828917
2	Cement plaster (1:4) up to 20'height ½"thick (C.S.I-11/ P/51)	14875.00	Sft	@Rs 2283.93	P% Sft	Rs 339735

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
3	Dismantling cement concrete reinforced separating reinforcement from concrete cleaning and stepping the same .(CSI No., 20, P-10)	154.18 Cft	@Rs 5445	P%Cft	Rs 8395
4	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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (C.S.I-6 P/16)	180.00 Cft	@Rs 337	P-Cft	Rs 60660
5	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 includes removal of rust from bars. (C.S.I-8, P/16)	6.42 Cwt	@Rs 5001.7	P-Cwt	Rs 32111
6	Cement concrete plain i/c placing compacting finishing curing complete i/c screening and washing of stone aggregate with shuttering. (CSI No: 5, P-18) Ratio 1:4:8	36.30 Cft	@Rs 14429.25	P%Cft	Rs 5238
7	Earth work excavation in ashes sand 50 ft soil or silt clearance undressed lead upto 50 ft. (CSI No: 2, P-1)	12228.85 Cft	@Rs 1663.75	P%0Cft	Rs 20346
8	Extra for wet earth work. (CSI No:15, P. No.3)	12228.85 Cft	@Rs 1058.75	P%0Cft	Rs 12947
9	Extra for every 50' additional lead or part thereof. (CSI No.8, P.No.2)	12228.85 Cft	@Rs 1914.82	P%0Cft	Rs 23416
Total:-					Rs 1331765
<u>SUB-WORK NO. 3 REPAIR OF STAFF QUARTER</u>					
1	Dismantling cement concrete reinforced separating reinforcement from concrete cleaning and stepping the same .(CSI No., 20, P-10)	201.19 Cft	@Rs 5445	P%Cft	Rs 10955
2	Pacca brick work in ground floor in cement sand mortar (1:6) (CSI No.5, P.No.20)	135.94 Cft	@Rs 12674.36	P%Cft	Rs 17230
3	R.C.C work i/c all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (C.S.I-6 P/16)	161.13 Cft	@Rs 337	P-Cft	Rs 54301
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 includes removal of rust from bars. (C.S.I-8, P/16)	6.47 Cwt	@Rs 5001.7	P-Cwt	Rs 32361
5	Cement concrete or brick stone ballast 1/2" to 2" guage (CSI No.4, P-17) Ratio (1:4:8)	63.36 Cft	@Rs 9416.28	P%Cft	Rs 5966
6	Providing Laying 3" thick topping cement concrete Ratio 1:2:4 i/c surface finishing dividing into panel (CSI No.16, P.41)	192.00 Sft	@Rs 4411.82	P%Sft	Rs 8471
7	Cement plaster (1:4) up to 20'height 1/2"thick (C.S.I-11/ P/51)	1283.00 Sft	@Rs 2283.93	P% Sft	Rs 29303

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
8	Painting old surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69). 2 Coats	128.00 Sft	@Rs 1160.06	P%Sft	Rs 1485
9	White washing two coat (G.S.I No. 26, P.No. 53)	325.44 Sft	@Rs 425.84	P%Sft	Rs 1386
	One coat	1283.00 Sft	@Rs 416.63	P%Sft	Rs 5345
10	Color washing Two coats (G.S.I No. 24, P.No. 60)	1283.00 Sft	@Rs 859.9	P%Sft	Rs 11033
Total:-					Rs 177835
<u>SUB-WORK NO. 4 COMPOUND WALL</u>					
1	Pacca brick work in foundation and plinth in cement sand mortar(1:6)	787.50 Cft	@Rs 11948.36	P% Cft	Rs 94093
2	Damp Proof Course with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture (CSI No.28, P-18). 3" thick	393.75 Sft	@Rs 4982.18	P% Sft	Rs 19617
3	Pacca brick work in other than building including striking of joints upto 20' height (1:6) (CSI No.7, P.No.21)	577.50 Cft	@Rs 12346.65	P% Cft	Rs 71302
4	Cement plaster 1:4 upto 20' height 1/2" thick. (CSI No: 13, P-51)	3262.90 Sft	@Rs 2283.93	P% Sft	Rs 74522
5	Cement pointing struck joints on walls. (CSI No: 11, P-51) Ratio 1:3	1180.00 Sft	@Rs 1213.58	P% Sft	Rs 14320
6	Painting old surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69). 3 Coats	144.00 Sft	@Rs 1160.06	P%Sft	Rs 1670
7	White washing One coat (G.S.I No. 26, P.No. 53)	3262.90 Sft	@Rs 416.63	P%Sft	Rs 13594
8	Color washing Two coats (G.S.I No. 24, P.No. 60)	4442.90 Sft	@Rs 859.9	P%Sft	Rs 38204
9	Repair of Main Gate (M.Rate)	1 Job	@Rs 4000	P-Job	Rs 4000
Total:-					Rs 331323
<u>SUB-WORK NO. 5 PUMPING MACHINERY I/C SUCTION DELIVERY</u>					
1	Supplying installing in position at site of work for Drainage Scheme electric motor set 10 BHP (KSB made) 4 pole 1500 RPM 3-Phase 400 VAC 50 cycles couple with Golden nonclogging sludge pump (GSWG-103 size) size 4"x3" i/c steel frame or base plate capable of discharging 170 gallons per minute against a head of 40' i/c installing of Pumping Set on C.C foundation Ratio 1:4:8 and Ratio 1:2:4 with ballast with M.S nuts and bolts of 5/7.5 dia to be embedded in C.C Foundation i/c Providing & Fixing Star Delta Starter complete with not volt & over lead release & required i/c Providing & Fixing in prepared board iron clad triple pole & natural switch fuse with rewirable type fuse link carried 500 volts grade 30 ampre & Providing & Fixing volt meter board accomondation main or sub-main control swtiches released in the wall size 3x21/2 i/c Providing phase indicating bulbs with holder & Provides internal electric wiring for main swtich with 3.7/0.85 (7/0.036) PVC insulated wire 660 volts grade in 25 mm (1") PVC required i/c Providing & Fixing earthing set with 0.6m x 6.3mm 2'x 21/2 C.I plate buried in the ground at depth 3.7 mm (12) or less per	1 No.	@Rs 219000	Each	Rs 219000
2	Motor Control Unit MCU/SD____ HP 10 A consists of circuit-breaker, magnetic contractor, overload protection, under/over Voltage protection, Phase Failure protection, Ammeter with current transformer, voltmeters with potential transformer automaic Star Delta change over switch, control and power cables, indicating lights and all these components are fixed in a metalic dust and smoke proof box Nice made. (MEECO PAKISTAN)	1 No.	27800	Each	Rs 27800

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
A) Repair of Electric Motor 10 BHP					
3	Rewinding of Electric Motor 10 BHP with copper wire i/c warnishing and testing etc complete (GSI No: 17, P-11)	1 Job	@Rs 10599	P-Job	Rs 10599
4	Repair of Nice Non-Clogging Sullage Pump. (M.R)	1 No.	@Rs 4500	Each	Rs 4500
Total:-					Rs 261899
<u>SUB-WORK NO. 6 BRICK PAVEMENT</u>					
1	Barrow Pit excavation undressed lead up to 100 ft: (Ordinary soil) (CSI No: 3, P-1)	10217.37 Cft	@Rs 2117.5	P%oCft	Rs 21635
2	Earth Work Compaction soft ordinary or hard soil laying earth in 6"layers leveling dressing etc complete. (GSI No: 13, P-3)	10217.37 Cft	@Rs 263	P%oCft	Rs 2687
3	Dry Brick on edge paving sand grouted including preparation of bed by watering, ramming and bringing the same to proper camber by 1/2" thick mud plaster. (CSI No.5, P.No.39)	1080.00 Sft	@Rs 3823.57	P%Sft	Rs 41295
4	Earth from lead 1 mile	10217.37 Cft	@Rs 407	P%oCft	Rs 41585
Total:-					Rs 107202
<u>SUB-WORK NO. 7 F.C RISING MAIN</u>					
1	Excavation for pipe lines in trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal or surplus earth within a one chain as directed by Engineering incharge providing fence guards. Lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5ft: (1.52m)and lead upto one chain (30.50m) (PHSI No.1, P.No.60)	5740.00 Cft	@Rs 3600	P%oCft	Rs 20664
2	Providing Laying Jointing Fiber Cement (FC) pipe and commit joint of Class "B" and fixing in trenche i/c cutting fitting and jointing with rubber ring i/c testing with water to head of 122 meter or 400 ft. (PHSI No.1, P.No.20)	820.00 Rft	@Rs 472.53	P-Rft	Rs 387475
Special cost iron fitting for F.C Pipe.					
3	C.I Bend 90 Degree (SMI No.1, P.No.18). 6" Dia	4 Nos:	@Rs 2212.5	Each	Rs 8850
4	C.I Jibult Joint (SMI No.14, P-17)	2 Nos:	@Rs 1062.5	Each	Rs 2125
5	Jointing C.I / M.S flanged and specials pipes and inside a trenches i/c supplying of the rubber packing of the required thickness nuts bolts and washers etc and other tools required for jointing and testing the joints in the specifics pressure etc complete. (CSI No. P-)	10 Joints	@Rs 938	P-Joint	Rs 9380
6	Refilling the excavated stuff on trenches 6"thick leveling i/c watering raming full compaction etc Complete. (PHSI No.24, P-77)	5166.00 Cft	@Rs 2760	P%oCft	Rs 14258
Total:-					Rs 442752
<u>SUB-WORK NO: 8 ANNUAL OPERATION & MAINTENANCE COST</u>					
A) Establishment					
i)	Pump Operator. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000
B Annual Repair Charges					
a)	Repair of Electric Motor & Pump etc completed. (M.R)	1.00 Job	@Rs 100000.0	P-Job	Rs 100000
b)	Oil Lubrication / Cotton Waste etc complete. (M.R)	24.00 Nos:	@Rs 3000.0	Each	Rs 72000
Total					Rs 256000

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-ABSTRACT OF DRAINAGE SCHEME JEHAN KHAN				
Sr. No.	Item of Work	Schedule Items	Non-Schedule Items	Total
1	Construction of Surface Drains	953982	0	953982
2	Repair of Existing Surface Drains	1331765	0	1331765
3	Repair of Staff Quarter	177835	0	177835
4	Repair of Compound Wall	331323	0	331323
5	Pumping Machinery i/c Suction Delivery	0	261899	261899
6	Brick Pavement	107202	0	107202
7	F.C Rising Main	442752	0	442752
8	Operation & Maintenance Cost for 1 Year	0	256000	256000
	Total	3344858	517899	3862757

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR

SCHEDULE OF PRICES

Name of Work:-

Rehabilitation of (07) Nos. Drainage Scheme i.e Sultankot, Hamayoon, Rahimabad, Thanhrio, Jehankhan, Boriri and Bado including (01) Year Operation & Maintenance.

Head of Account:-

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-WORK NO: VI REHABILITATION OF DRAINAGE SCHEME BORIRI**SUB-WORK NO. 1 CONSTRUCTION OF SURFACE DRAINS**

1	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (C.S.I-18/ P/4)	7090.00 Cft	@Rs 3176.25	P%o Cft	Rs 22520
2	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:4:8 (C.S.I-5 P/15)	1585.00 Cft	@Rs 11288.75	P% Cft	Rs 178927
	B) Ratio 1:2:4	58.50 Cft	@Rs 14429.25	P% Cft	Rs 8441
3	Pacca brick work in foundation and plinth in cement sand mortar(1:6)	4125.00 Cft	@Rs 11948.36	P% Cft	Rs 492870
4	Construction of standard open type drains connuttee block of C.C 1:2:4 cost of situ to the design profiles i/c cost of mould as per drawing i/c supplying floating cost of cement 1/32" thick to expose surface faces finished smooth curing complete as per drawing design. (P.H.S.I No.D, P/58)				
	Type-A	2000.00 Rft	@Rs 94	P-Rft	Rs 188000
	Type-B	500.00 Rft	@Rs 174	P-Rft	Rs 87000
5	Cement plaster (1:4) up to 20'height ½"thick (C.S.I-11/ P/51)	6500.00 Sft	@Rs 2283.93	P% Sft	Rs 148455
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or pprecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	75.00 Cft	@Rs 337	P-Cft	Rs 25275
7	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 includes removal of rust from bars. (C.S.I-8, P/16)	2.67 Cwt	@Rs 5001.7	P-Cwt	Rs 13355

Total:- Rs 1164842

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
<u>SUB-WORK NO. 2 REPAIR OF EXISTING SURFACE DRAINS</u>					
1	Pacca brick work in foundation and plinth in cement sand mortar(1:6). (G.S.I No. 4 P/19)	4650.00 Cft	@Rs 11948.36	P%Cft	Rs 555599
2	Cement plaster (1:4) up to 20'height ½"thick (C.S.I-11/ P/51)	10850.00 Sft	@Rs 2283.93	P% Sft	Rs 247806
3	Dismantling cement concrete reinforced seperating reinforcement from concrete cleaning and stepping the same .(CSI No., 20, P-10)	154.18 Cft	@Rs 5445	P%Cft	Rs 8395
4	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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or prrecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	180.00 Cft	@Rs 337	P-Cft	Rs 60660
5	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 includes removal of rust from bars. (C.S.I-8, P/16)	6.42 Cwt	@Rs 5001.7	P-Cwt	Rs 32111
6	Cement concrete plain i/c placing compacting finishing curing complete i/c screening and washing of stone aggregate with shuttering. (CSI No: 5, P-18) Ratio 1:4:8	36.30 Cft	@Rs 14429.25	P%Cft	Rs 5238
7	Earth work excavation in ashes sand 50 ft soil or silt clearance undressed lead upto 50 ft. (CSI No: 2, P-1)	12228.85 Cft	@Rs 1663.75	P%0Cft	Rs 20346
8	Extra for wet earth work. (CSI No:15, P. No.3)	12228.85 Cft	@Rs 1058.75	P%0Cft	Rs 12947
9	Extra for every 50' additional lead or part thereof. (CSI No.8, P.No.2)	12228.85 Cft	@Rs 1914.82	P%0Cft	Rs 23416
Total:-					Rs 966518
<u>SUB-WORK NO. 3 REPAIR OF PUMP HOUSE</u>					
1	Dismantling cement concrete reinforced seperating reinforcement from concrete cleaning and stepping the same .(CSI No., 20, P-10)	122.72 Cft	@Rs 5445	P%Cft	Rs 6682
2	Pacca brick work in ground floor in cement sand mortar (1:6) (CSI No.5, P.No.20)	88.13 Cft	@Rs 12674.36	P%Cft	Rs 11170
3	R.C.C work i/c all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or prrecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	107.61 Cft	@Rs 337	P-Cft	Rs 36265
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 includes removal of rust from bars. (C.S.I-8, P/16)	4.32 Cwt	@Rs 5001.7	P-Cwt	Rs 21607
5	Cement concrete or brick stone ballast ½" to 2" guage (CSI No.4, P-17) Ratio (1:4:8)	39.60 Cft	@Rs 9416.28	P%Cft	Rs 3729
6	Providing Laying 3" thick topping cement concrete Ratio 1:2:4 i/c surface finishing dividing into panel (CSI No.16, P.41)	120.00 Sft	@Rs 4411.82	P%Sft	Rs 5294
7	Cement plaster (1:4) up to 20'height ½"thick (C.S.I-11/ P/51)	812.00 Sft	@Rs 2283.93	P% Sft	Rs 18546

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
8	Fabrication of heavy steel work with angles, tees, flate iron, round iron and sheet iron for making truses, gaders, tants etc including cutting, tanks and including cutting, drilling, reveating, handling, assembling and fixing but excluding errection in position. (CSI No. P-)	2.38 Cwt	@Rs 4928.49	P-Cwt	Rs 11730
9	Painting new surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69). 3 Coats	56.00 Sft	@Rs 2116.41	P%Sft	Rs 1185
	Old Surface 2 Coats	72.00 Sft	@Rs 1160.06	P%Sft	Rs 835
10	White washing two coat (G.S.I No. 26, P.No. 53)	195.00 Sft	@Rs 425.84	P%Sft	Rs 830
	One coat	812.00 Sft	@Rs 416.63	P%Sft	Rs 3383
11	Color washing Two coats (G.S.I No. 24, P.No. 60)	812.00 Sft	@Rs 859.9	P%Sft	Rs 6982
Total:-					Rs 128236
<u>SUB-WORK NO. 4 REPAIR OF STAFF QUARTER</u>					
1	Dismantling cement concrete reinforced seperating reinforcement from concrete cleaning and steping the same .(CSI No., 20, P-10)	201.19 Cft	@Rs 5445	P%Cft	Rs 10955
2	Pacca brick work in ground floor in cement sand mortar (1:6) (CSI No.5, P.No.20)	135.94 Cft	@Rs 12674.36	P%Cft	Rs 17230
3	R.C.C work i/c all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or pprecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (C.S.I-6 P/16)	161.13 Cft	@Rs 337	P-Cft	Rs 54301
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 includes removal of rust from bars. (C.S.I-8, P/16)	6.47 Cwt	@Rs 5001.7	P-Cwt	Rs 32361
5	Cement concrete or brick stone ballast 1/2" to 2" guage (CSI No.4, P-17) Ratio (1:4:8)	63.36 Cft	@Rs 9416.28	P%Cft	Rs 5966
6	Providing Laying 3" thick topping cement concrete Ratio 1:2:4 i/c surface finishing dividing into panel (CSI No.16, P.41)	192.00 Sft	@Rs 4411.82	P%Sft	Rs 8471
7	Cement plaster (1:4) up to 20'height 1/2"thick (C.S.I-11/ P/51)	1283.00 Sft	@Rs 2283.93	P% Sft	Rs 29303
8	Painting old surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69). 3 Coats	128.00 Sft	@Rs 1160.06	P%Sft	Rs 1485
9	White washing two coat (G.S.I No. 26, P.No. 53)	325.44 Sft	@Rs 425.84	P%Sft	Rs 1386
	One coat	1283.00 Sft	@Rs 416.63	P%Sft	Rs 5345
10	Color washing Two coats (G.S.I No. 24, P.No. 60)	1283.00 Sft	@Rs 859.9	P%Sft	Rs 11033
Total:-					Rs 177835
<u>SUB-WORK NO. 5 REPAIR OF COMPOUND WALL</u>					
1	Pacca brick work in foundation and plinth in cement sand mortar(1:6)	787.50 Cft	@Rs 11948.36	P% Cft	Rs 94093
2	Damp Proof Course with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture (CSI No.28, P-18). 3" thick	393.75 Sft	@Rs 4982.18	P% Sft	Rs 19617
3	Pacca brick work in other than building including stricking of joints upto 20' height (1:6) (CSI No.7, P.No.21)	577.50 Cft	@Rs 12346.65	P% Cft	Rs 71302

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
4	Cement plaster 1:4 upto 20' height 1/2" thick. (CSI No: 13, P-51)	3262.90 Sft	@Rs 2283.93	P% Sft	Rs 74522
5	Cement pointing struck joints on walls. (CSI No: 11, P-51) Ratio 1:3	1180.00 Sft	@Rs 1213.58	P% Sft	Rs 14320
6	Painting old surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69). 3 Coats	144.00 Sft	@Rs 1160.06	P%Sft	Rs 1670
7	White washing One coat (G.S.I No. 26, P.No. 53)	3262.90 Sft	@Rs 416.63	P%Sft	Rs 13594
8	Color washing Two coats (G.S.I No. 24, P.No. 60)	4442.90 Sft	@Rs 859.9	P%Sft	Rs 38204
9	Repair of Main Gate (M.Rate)	1 Job	@Rs 4000	P-Job	Rs 4000
					Total:- Rs 331323

SUB-WORK NO. 6 REPAIR OF PUMPING MACHINERY I/C SUCTION DELIVERY

1	Supplying installing in position at site of work for Drainage Scheme electric motor set 10 BHP (KSB made) 4 pole 1500 RPM 3-Phase 400 VAC 50 cycles couple with Golden nonclogging sludge pump (GSWG-103 size) size 4"x3" i/c steel frame or base plate capable of discharging 170 gallons per minute against a head of 40' i/c installing of Pumping Set on C.C foundation Ratio 1:4:8 and Ratio 1:2:4 with ballast with M.S nuts and bolts of 5/7.5 dia to be embedded in C.C Foundation i/c Providing & Fixing Star Delta Starter complete with not volt & over lead release & required i/c Providing & Fixing in prepared board iron clad triple pole & natural switch fuse with rewirable type fuse link carried 500 volts grade 30 ampre & Providing & Fixing volt meter board accomodation main or sub-main control switches released in the wall size 3x21/2 i/c Providing phase indicating bulbs with holder & Provides internal electric wiring for main switch with 3.7/0.85 (7/0.036) PVC insulated wire 660 volts grade in 25 mm (1") PVC required i/c Providing & Fixing earthing set with 0.6m x 6.3mm 2'x 21/2 C.I plate buried in the ground at depth 2' 7 mm (12) or less per	1	No.	@Rs 219000	Each	Rs 219000
<u>INTERCONNECTION</u>						
1	Providing, Laying & Fixing in trenches i/c fitting, jointing & testing etc complete in all respect the high density polythlene P.E Pipe (HDPE-100) for W/S confirming ISO 4427/DIN 8074/8075 B.S 3580 & PSI 3051. (PHSI No. F(1), P.No.25) P.N-10					
	3" Dia for Suction	24.00	Rft	@Rs 178.0	P-Rft	Rs 4272
	For Delivery 4" Dia	30.00	Rft	@Rs 268.0	P-Rft	Rs 8040
2	Supplying C.I Sulice valve heavy pattern test pressure 21.0 kg sq cm 300 lbs sq inch. (M.R)	3.00	Nos:	@Rs 4290.0	Each	Rs 12870
3	Supplying Reflex valve heavy pattern test pressure 21.0 kg sq cm 300 lbs sq inch. (R.A)	6.00	Nos:	@Rs 1543.8	Each	Rs 9263
4	C.I Foot Valve heavy pattern with type. (SMOI No. 4, P-10)	3.00	Nos:	@Rs 731.3	Each	Rs 2194
5	C.I Bend with flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 8, P-11)	0.78	Cwt	@Rs 6096.0	P-Cwt	Rs 4755
6	M.S Pipe made out of M.S Sheet 3/16"					
	3" Dia	16.00	Rft	@Rs 385.89	P-Rft	Rs 6174
	4" Dia	8.00	Rft	@Rs 506.60	P-Rft	Rs 4053
7	M.S Flange 3/8" Thick.					
	3" Dia	12.00	Nos:	@Rs 500.89	P-Rft	Rs 6011
	4" Dia	12.00	Nos:	@Rs 596.75	P-Rft	Rs 7161
8	Butt Fusion Joint.					
	3" Dia	9.00	Nos:	@Rs 600.00	P-Rft	Rs 5400
	4" Dia	6.00	Nos:	@Rs 1000.00	P-Rft	Rs 6000
9	Flange Adapter. (NSI)					
	3" Dia	9.00	Nos:	@Rs 675.00	P-Rft	Rs 6075
	4" Dia	12.00	Nos:	@Rs 1215.00	P-Rft	Rs 14580

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
10	C.I Tapered Central flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 9, P-11)	0.56 Cwt	@Rs 6096.0	P-Cwt	Rs 3414
11	Supplying C.I Tee Flanged end with holes i/c trenches and facing of flanged for all size. (SMI No. 11, P-11)	0.356 Cwt	@Rs 6096.0	P-Cwt	Rs 2170
12	Jointing C.I / M.S flanged and specials pipes and inside a trenches i/c supplying of the rubber packing of the required thickness nuts bolts and washers etc and other tools required for jointing and testing the joints in the specifics pressure etc complet				
	4" Dia	12.00 Nos:	@Rs 513.00	P-Rft	Rs 6156
	3" Dia	20.00 Nos:	@Rs 499.00	P-Rft	Rs 9980
13	Motor Control Unit MCU/SD____ HP 10 A consists of circuit-breaker, magnetic contractor, overload protection, under/over Voltage protection, Phase Failure protection, Ammeter with current transformer, voltmeters with potential transformer automaic Star Delta change over switch, control and power cables, indicating lights and all these components are fixed in a metalic dust and smoke proof box Nice made. (MEECO PAKISTAN)	1 No.	@Rs 27800	Each	Rs 27800
A) Repair of Electric Motor 10 BHP					
1	Rewinding of Electric Motor 10 BHP with copper wire i/c warnishing and testing etc complete (GSI No: 17, P-11)	1 Job	@Rs 10599	P-Job	Rs 10599
2	Repair of Nice Non-Clogging Sullage Pump. (M.R)	1 No.	@Rs 4500	Each	Rs 4500
3	C.I Coupling 3.5" (M.R)	1 No.	@Rs 2400	Each	Rs 2400
					Total:- Rs 382866
<u>SUB-WORK NO. 7 BRICK PAVEMENT</u>					
1	Barrow Pit excavation undressed lead up to 100 ft: (Ordinary soil) (CSI No: 3, P-1)	10217.37 Cft	@Rs 2117.50	P%oCft	Rs 21635
2	Earth Work Compaction soft ordinary or hard soil laying earth in 6"layers leveling dressing etc complete. (GSI No: 13, P-3)	10217.37 Cft	@Rs 263.00	P%oCft	Rs 2687
3	Dry Brick on edge paving sand grouted including preparation of bed by watering, ramming and bringing the same to proper camber by 1/2" thick mud plaster. (CSI No.5, P.No.39)	1080.00 Sft	@Rs 3823.57	P%Sft	Rs 41295
4	Earth from lead 1 mile	10217.37 Cft	@Rs 407	P%oCft	Rs 41585
					Total:- Rs 107202
<u>SUB-WORK NO. 8 REPAIR OF COLLECTING TANK & SCREENING CHAMBER</u>					
1	Cleaning of collecting tank / sump below ground level i/c dewatering of sludge water and disposal of garbage solid waste etc outside the tank etc complete. (PHSI No: I, P-33)	1653.00 Cft	@Rs 11900	P%oCft	Rs 19671
2	Pacca brick work in other than building including stricking of joints upto 20' height (1:6) (CSI No.7, P.No.21)	228.56 Cft	@Rs 12346.65	P% Cft	Rs 28220
3	Cement plaster (1:4) up to 20'height ½"thick (C.S.I-11/ P/51)	717.30 Sft	@Rs 2283.93	P% Sft	Rs 16383
4	Small Iron work such as agreegate	2.75 Cwt	@Rs 6420.61	P-Cwt	Rs 17657
					Total:- Rs 81931
<u>SUB-WORK NO. 9 F.C RISING MAIN</u>					
1	Excavation for pipe lines in trenches and pits in soft soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal or surplus earth within a one chain as directed by Engineering incharge providing fence guards. Lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5ft: (1.52m)and lead upto one chain (30.50m) (PHSI No.1, P.No.60)	1400.00 Cft	@Rs 3600.00	P%oCft	Rs 5040

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
2	Providing Laying Jointing Fiber Cement (FC) pipe and commit joint of Class "B" and fixing in trench i/c cutting fitting and jointing with rubber ring i/c testing with water to head of 122 meter or 400 ft. (PHSI No.1, P.No.20) Special cost iron fitting for F.C Pipe.	200.00	Rft @Rs 472.53	P-Rft	Rs 94506
3	C.I Bend 90 Degree (SMI No.1, P.No.18). 6" Dia	2	Nos: @Rs 2212.50	Each	Rs 4425
4	C.I Jibult Joint (SMI No.14, P-17)	2	Nos: @Rs 1062.50	Each	Rs 2125
5	Jointing C.I / M.S flanged and specials pipes and inside a trenches i/c supplying of the rubber packing of the required thickness nuts bolts and washers etc and other tools required for jointing and testing the joints in the specifics pressure etc complete. (CSI No. P-)	6	Joints @Rs 938.00	P-Joint	Rs 5628
6	Refilling the excavated stuff on trenches 6"thick leveling i/c watering raming full compaction etc Complete. (PHSI No.24, P-77)	1260.00	Cft @Rs 2760.00	P%oCft	Rs 3478
Total:-					Rs 115202

SUB-WORK NO. 10 REPAIR OF TRANSFORMER

1	Repair of Transformer i/c loading unloading, transportation from Site to Workshop and return to site with testing etc complete (M.R)	3.0	Jobs @Rs 15000.00	P-Job	Rs 45000
2	Transformer Oil	80.0	Liters @Rs 180.00	P-Litre	Rs 14400
3	Labour Charges	1.0	Job @Rs 5000.00	P-Job	Rs 5000
4	Supplying and fixing Line PVC Copper Wire 3.7/0.44	20.0	Meters @Rs 422.00	P-Meter	Rs 8440
Total:-					Rs 72840

SUB-WORK NO: 11 ANNUAL OPERATION & MAINTENANCE COST

A) Establishment

i) Pump Operator. (M.R) 12.00 Months @Rs 7000.0 P-Month Rs 84000

B) Annual Repair Charges

a) Repair of Electric Motor & Pump etc completed. (M.R) 1.00 Job @Rs 100000.0 P-Job Rs 100000

b) Oil Lubrication / Cotton Waste etc complete. (M.R) 24.00 Nos: @Rs 3000.0 Each Rs 72000

Total Rs 256000

SUB-ABSTRACT OF DRAINAGE SCHEME BORIRI				
Sr. No.	Item of Work	Schedule Items	Non-Schedule Items	Total
1	Construction of Surface Drains	1164842	0	1164842
2	Repair of Existing Surface Drains	966518	0	966518
3	Repair of Pump House	128236	0	128236
4	Repair of Staff Quarter	177835	0	177835
5	Repair of Compound Wall	327324	4000	331324
6	Repair of Pumping Machinery i/c Suction Delivery	86378	296488	382866
7	Brick Pavement	107202	0	107202
8	Repair of Collecting Tank & Screening Chamber	81931	0	81931
9	F.C Rising Main	115202	0	115202
10	Repair of Transformer	0	72840	72840
11	Operation & Maintenance Cost for 1 Year	0	256000	256000
Total		3155468	629328	3784796

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR

SCHEDULE OF PRICES

Name of Work:- Rehabilitation of (07) Nos. Drainage Scheme i.e Sultankot, Hamayoon, Rahimabad, Thanhrio, Jehankhan, Boriri and Bado including (01) Year Operation & Maintenance.

Head of Account:- _____

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-WORK NO: VII REHABILITATION OF DRAINAGE SCHEME BADO

SUB-WORK NO. 1 CONSTRUCTION OF SURFACE DRAINS

1	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (C.S.I-18/ P/4)	7050.00 Cft	@Rs 3176.25	P%o Cft	Rs 22393
2	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:4:8 (C.S.I-5 P/15)	1712.50 Cft	@Rs 11288.75	P% Cft	Rs 193320
	B) Ratio 1:2:4	152.08 Cft	@Rs 14429.25	P% Cft	Rs 21944
3	Pacca brick work in foundation and plinth in cement sand mortar(1:6)	4387.50 Cft	@Rs 11948.36	P% Cft	Rs 524234
4	Construction of standard open type drains connuttee block of C.C 1:2:4 cost of situ to the design profiles i/c cost of mould as per drawing i/c supplying floating cost of cement 1/32" thick to expose surface faces finished smooth curing complete as per drawing design. (P.H.S.I No.D, P/58)				
	Type-A	2500.00 Rft	@Rs 94	P-Rft	Rs 235000
	Type-B	200.00 Rft	@Rs 174	P-Rft	Rs 34800
5	Cement plaster (1:4) up to 20'height ½"thick (C.S.I-11/ P/51)	8550.00 Sft	@Rs 2283.93	P% Sft	Rs 195276
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or pprecast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	84.93 Cft	@Rs 337	P-Cft	Rs 28621
7	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 includes removal of rust from bars. (C.S.I-8, P/16)	3.03 Cwt	@Rs 5001.7	P-Cwt	Rs 15155

Total:- Rs 1270743

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
<u>SUB-WORK NO. 2 REPAIR OF EXISTING SURFACE DRAINS</u>					
1	Pacca brick work in foundation and plinth in cement sand mortar(1:6). (G.S.I No. 4 P/19)	6750.00 Cft	@Rs 11948.36	P%Cft	Rs 806514
2	Cement plaster (1:4) up to 20'height ½"thick (C.S.I-11/ P/51)	15750.00 Sft	@Rs 2283.93	P% Sft	Rs 359719
3	R.C.C work i/c all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or pprcast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	144.00 Cft	@Rs 337	P-Cft	Rs 48528
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 includes removal of rust from bars. (C.S.I-8, P/16)	5.14 Cwt	@Rs 5001.7	P-Cwt	Rs 25709
5	Earth work excavation in ashes sand 50 ft soil or silt clearance undressed lead upto 50 ft. (CSI No: 2, P-1)	7845.16 Cft	@Rs 1663.75	P%0Cft	Rs 13052
6	Extra for wet earth work. (CSI No:15, P. No.3)	7845.16 Cft	@Rs 1058.75	P%0Cft	Rs 8306
7	Extra for every 50' additional lead or part thereof. (CSI No.8, P.No.2)	7845.16 Cft	@Rs 5039	P%0Cft	Rs 39532
Total:-					Rs 1301360
<u>SUB-WORK NO. 3 REPAIR OF DISPOSAL WORK</u>					
1	Barrow Pit excavation undressed lead up to 100 ft: (Ordinary soil) (CSI No: 3, P-1)	4860.00 Cft	@Rs 2117.5	P%oCft	Rs 10291
2	Earth Work Compaction soft ordinary or hard soil laying earth in 6"layers leveling dressing and watering for compaction etc complete. (GSI No: 13, P-3)	4860.00 Cft	@Rs 354	P%oCft	Rs 1720
3	Cement concrete or brick stone ballast ½" to 2" guage (CSI No.4, P-17) Ratio (1:4:8)	320.76 Cft	@Rs 9416.28	P%Cft	Rs 30204
	Ratio 1:2:4	243.00 Cft	@Rs 14429.25	P%Cft	Rs 35063
4	Erection and removal of centering of RCC or plain cement concrete work Partial Wood (CSI No: 19 (b-ii), P-17)	40.50 Sft	@Rs 3127.41	P%Sft	Rs 1267
Total:-					Rs 78545
<u>SUB-WORK NO. 4 CONSTRUCTION OF COMPOUND WALL</u>					
1	Excavation in foundation of building bridges and other structures i/c dig billing dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (C.S.I-18/ P/4)	40.00 Cft	@Rs 3176.25	P%o Cft	Rs 127
2	Cement concrete or brick stone ballast ½" to 2" guage (CSI No.4, P-17) Ratio (1:4:8)	8.00 Cft	@Rs 9416.28	P%Cft	Rs 753
3	Pacca brick work in foundation and plinth in cement sand mortar(1:6)	480.48 Cft	@Rs 11948.36	P% Cft	Rs 57409
4	Damp Proof Course with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture (CSI No.28, P-18). 3" thick	320.32 Sft	@Rs 4982.18	P% Sft	Rs 15959

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
5	Pacca brick work in other than building including striking of joints upto 20' height (1:6) (CSI No.7, P.No.21)	489.88 Cft	@Rs 12346.65	P% Cft	Rs 60484
6	Cement plaster 1:6 upto 20' height ½" thick. (CSI No: 13, P-51)	1686.40 Sft	@Rs 2206.6	P% Sft	Rs 37212
7	Cement plaster 1:4 upto 20' height 3/8" thick. (CSI No: 13, P-51)	1686.40 Sft	@Rs 2197.52	P% Sft	Rs 37059
8	Cement pointing struck joints on walls. (CSI No: 11, P-51) Ratio 1:3	1144.00 Sft	@Rs 1213.58	P% Sft	Rs 13883
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 includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/c screening and washing of shingle (a) R.C work in roof slab members laid in situ or precast laid in position complete in a respect. (i) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (C.S.I-6 P/16)	84.00 Cft	@Rs 337	P-Cft	Rs 28308
10	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 includes removal of rust from bars. (C.S.I-8, P/16)	3.38 Cwt	@Rs 5001.7	P-Cwt	Rs 16906
11	Making & Fixing steel grated doors with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8 and 3/4" square bars 4" centre to centre with locking arrangement. (S.I. No. 24, P-91)	50.00 Sft	@Rs 726.72	P-Sft	Rs 36336
12	Painting new surfaces, preparing of surfaces and painting of doors and windows of any type i/c edges. (GSI No: 5 (c), P-69). 3 Coats	100.00 Sft	@Rs 2116.41	P%Sft	Rs 2116
13	White washing One coat (G.S.I No. 26, P.No. 53)	1686.40 Sft	@Rs 425.84	P%Sft	Rs 7181
14	Color washing Two coats (G.S.I No. 24, P.No. 60)	2830.40 Sft	@Rs 859.9	P%Sft	Rs 24339
Total:-					Rs 339215
<u>SUB-WORK NO. 5 BRICK PAVEMENT</u>					
1	Barrow Pit excavation undressed lead up to 100 ft: (Ordinary soil) (CSI No: 3, P-1)	30886.00 Cft	@Rs 2117.5	P%oCft	Rs 65401
2	Earth Work Compaction soft ordinary or hard soil laying earth in 6"layers leveling dressing etc complete. (GSI No: 13, P-3)	30886.00 Cft	@Rs 263	P%oCft	Rs 8123
3	Extra for every 50' additional lead or part thereof. (CSI No.8, P.No.2)	30886.00 Cft	@Rs 5039	P%0Cft	Rs 155635
4	Dry Brick on edge paving sand grouted including preparation of bed by watering, ramming and bringing the same to proper camber by 1/2" thick mud plaster. (CSI No.5, P.No.39)	19610.00 Sft	@Rs 3823.57	P%Sft	Rs 749802
Total:-					Rs 978961
<u>SUB-WORK NO: 6 ANNUAL OPERATION & MAINTENANCE COST</u>					
<u>A) Establishment</u>					
i)	Pump Operator. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000
ii)	Sweeper. (M.R)	12.00 Months	@Rs 7000.0	P-Month	Rs 84000
<u>B Annual Repair Charges</u>					
a)	Repair of Electric Motor & Pump etc completed. (M.R)	1.00 Job	@Rs 100000.0	P-Job	Rs 100000
b)	Oil Lubrication / Cotton Waste etc complete. (M.R)	24.00 Nos:	@Rs 3000.0	Each	Rs 72000
Total					Rs 340000

Sr. No.	Item of Work	Quantity	Rate	Unit	Amount
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SUB-ABSTRACT OF DRAINAGE SCHEME BADO

Sr. No.	Item of Work	Schedule Items	Non-Schedule Items	Total
1	Construction of Surface Drains	1270743	0	1270743
2	Repair of Existing Surface Drains	1301360	0	1301360
3	Repair of Disposal Work	78545	0	78545
4	Construction of Compound Wall	339215	0	339215
5	Brick Pavement	978961	0	978961
6	Operation & Maintenance Cost for 1 Year	0	340000	340000
	Total	3968824	340000	4308824

CONTRACTOR

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
SHIKARPUR