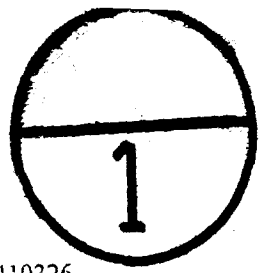




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**PUBLIC HEALTH ENGINEERING DIVISION-I
LARKANO**

BIDDING DOCUMENTS

FOR

**Rehabilitation of Drainage Schemes of
Villages Mandhra, Seehar, Balhreji, Gund,
Pathan, Sidque Abad, Masu Hab, Gujhar of
District Larkano i/c one year Operation &
Maintenance.**

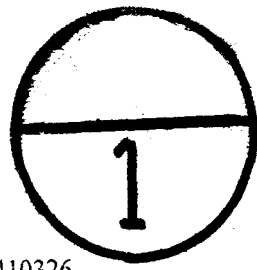
- Instructions to Bidders (ITB)
- General Conditions of Contract (GCC)

ISSUED TO M/S:



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Preface

These Bidding Documents have been prepared for use by Procuring agencies and their implementing agencies in the procurement of goods through National Competitive Bidding (NCB).

In order to simplify the preparation of bidding documents for each procurement, the Bidding Documents are grouped in two parts based on provisions which are fixed and that which are specific for each procurement. Provisions which are intended to be used unchanged are in Part one, which includes Section I, Instructions to Bidders, and Section II, General Conditions of Contract. Data and provisions specific to each procurement and contract are included in Part Two which includes Section II, Bid Data Sheet; Section III, Special Conditions of Contract; Section-IV, Schedule of Requirements; Section V, Technical Specifications; and the forms to be used in Section I, Invitation for Bids, and Section VI, Sample Forms.

This is Part one which is fixed and contains provisions which are to be used unchanged. Each section is prepared with notes intended only as information for the Procuring agency or the person drafting the bidding documents. They shall not be included in the final documents.

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Instructions to Bidders

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Instructions to Bidders

A. Introduction

1. Source of Funds
 - 1.1 The Procuring agency has received /applied for loan/grant/federal/provincial/local government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project/schemes specified in the bidding data and it is intended that part of the proceeds of this loan/grant/funds/will be applied to eligible payments under the contract for which these bidding documents are issued.
 - 1.2 Payment by the Fund will be made only at the request of the Procuring agency and upon approval by the Government of Sindh, and in case of a project will be subject in all respect to the terms and conditions of the agreement. The Project Agreement prohibit a withdrawal from the allocate fund account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Federal Government/ Sindh Government, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Procuring agency shall derive any rights from the Project Agreement or have any claim to the allocate fund proceeds.
2. Eligible Bidders
 - 2.1 This Invitation for Bids is open to all suppliers from eligible source as defined in the SPP Rules, 2009 and its Bidding Documents except as provided hereinafter.
 - 2.2 Bidders should not be associated, or have been associated in the past, directly or in directly, with a firm or any of its affiliates which have been engaged by the Procuring agency to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.
 - 2.3 Government-owned enterprises in the Province of Sindh may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Government of Sindh.
 - 2.4 Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by the

- any government organization in accordance with sub clause 34.1
3. Eligible Goods and Services
- 3.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, defined in the SPP Rules, 2009 and its Bidding Documents, and all expenditures made under the contract will be limited to such goods and services.
- 3.2 For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 3.3 The origin of goods and services is distinct from the nationality of the Bidder.
4. Cost of Bidding
- 4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring agency named in the Bid Data Sheet, here in after referred to as "the Procuring agency," will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. The Bidding Documents

5. Content of Bidding Documents
- 5.1 the bidding documents include:
- (a) Instructions to Bidders(ITB)
 - (b) Bid Data Sheet
 - (c) General Conditions of Contract (GCC)
 - (d) Special Conditions of Contract (SCC)
 - (e) Schedule of Requirements
 - (f) Technical Specifications
 - (g) Bid Form and Price Schedules
 - (h) Bid Security Form
 - (i) Contract Form
 - (j) Performance Security Form
 - (k) Manufacturer's Authorization Form
- 5.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the

Eligibility and Qualification

13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring agency's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 2.

13.3 The documentary evidence of the Bidder's qualifications to perform the contract its bid is accepted shall establish to the Procuring agency's satisfaction:

(a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the goods in the Procuring agency's country;

(b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;

(c) that, in the case of a Bidder not doing business within the Procuring agency's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and

(d) that the Bidder meets the qualification criteria listed in the Bid Data Sheet.

14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

14.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.

14.2 The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule of the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.

14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of:

(a) a detailed description of the essential technical and

performance characteristics of the goods;

- (b) a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring agency; and
- (c) an item-by-item commentary on the Procuring agency's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

14.4 For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

. Bid Security

- 15.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet.
- 15.2 The bid security is required to protect the Procuring agency against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.
- 15.3 The bid security shall be in Pak. Rupees and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency and valid for thirty (30) days beyond the validity of the bid; or
 - (b) irrevocable en-cashable on-demand Bank call-deposit.
- 15.4 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring agency as non-responsive, pursuant to ITB Clause 24.

15.5 Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the Procuring agency pursuant to ITB Clause 16.

15.6 The successful Bidder's bid security will be discharged up on the Bidder signing the contract, pursuant to ITB Clause 32, and furnishing the performance security, pursuant to ITB Clause 33.

15.7 The bid security may be forfeited:

- (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or
- (b) in the case of a successful Bidder, if the Bidder fails:
 - (i) to sign the contract in accordance with ITB Clause 32;
 - or
 - (ii) to furnish performance security in accordance with ITB Clause 33.

6. Period of
Validity of
Bids

16.1 Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring agency, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Procuring agency as nonresponsive.

16.2 In exceptional circumstances, the Procuring agency may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security provided under ITB Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.

7. Format and
Signing of Bid

17.1 The Bidder shall prepare an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate. In the event of any discrepancy between them, the original shall govern.

17. The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a

person or persons duly authorized to bind the Bidder to the contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.

17.3 Any inter lineation erasures, or over writing shall be valid only if they are initialed by the person or persons signing the bid.

17.4 The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

D. Submission of Bids

18. Sealing and Marking of Bids

18.1 The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.

18.2 The inner and outer envelopes shall:

(a) be addressed to the Procuring agency at the address given in the Bid Data Sheet; and

(b) bear the Project name indicated in the Bid Data Sheet, the Invitation for Bids (IFB) title and number indicated in the Bid Data Sheet, and a statement: "DONOT OPEN BEFORE," to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.2.

18.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".

18.4 If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Procuring agency will assume no responsibility for the bid's misplacement or premature opening.

19. Deadline for Submission of Bids

19.1 Bids must be received by the Procuring agency at the address specified under ITB Clause 18.2 no later than the time and date specified in the Bid Data Sheet.

19.2 The Procuring agency may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 7, in which case all rights and

obligations of the Procuring agency and bidders previously subject to the dead line will thereafter be subject to the deadline as extended.

20. Late Bids 20.1 Any bid received by the Procuring agency after the deadline for submission of bids prescribed by the Procuring agency pursuant to ITB Clause 19 will be rejected and returned unopened to the Bidder.

21. Modification and Withdrawal of Bids 21.1 The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring agency prior to the deadline prescribed for submission of bids.

21.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB Clause 18. by a signed confirmation copy, postmarked not later than the deadline for submission of bids.

21.3 No bid may be modified after the deadline for submission of bids.

21.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security, pursuant to the ITB Clause 15.7.

E. Opening and Evaluation of Bids

22. Opening of Bids by the Procuring agency 22.1 The Procuring agency will open all bids in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register evidencing their attendance.

22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Procuring agency, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 20.

- 22.3 Bids (and modifications sent pursuant to FBC clause 21.2) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders.
- 22.4 The Procuring agency will prepare minutes of the bid opening.
23. Clarification of Bids
- 23.1 During evaluation of the bids, the Procuring agency may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.
24. Preliminary Examination
- 24.1 The Procuring agency will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 24.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- 24.3 The Procuring agency may waive any minor in formality, non conformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- 24.4 Prior to the detailed evaluation, pursuant to FBC clause 25 the Procuring agency will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Bid Security (ITB Clause 15), Applicable Law (GCC Clause 30), and Taxes and Duties (GCC Clause 32), will be deemed to be a material deviation. The Procuring agency's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

- 24.5 If a bid is not substantially responsive, it will be rejected by the Procuring agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
25. Evaluation and Comparison of Bids
- 25.1 The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24.
- 25.2 The Procuring agency's evaluation of a bid will be on delivered duty paid (DDP) price inclusive of prevailing duties and will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
- 25.3 The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4:
- (a) incidental costs;
 - (b) delivery schedule offered in the bid;
 - (c) deviations in payment schedule from that specified in the Special Conditions of Contract;
 - (d) the cost of components, mandatory spare parts, and service;
 - (e) the availability Procuring agency of spare part-and after-sales services for the equipment offered in the bid;
 - (f) the projected operation and maintenance costs during the life of the equipment;
 - (g) the performance and productivity of the equipment offered; and/or
 - (h) other specific criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.
- 25.4 For factors retained in the Bid Data Sheet pursuant to ITB 25.3, one or more of the following quantification methods will be applied, as detailed in the Bid Data Sheet:
- (a) Incidental costs provided by the bidder will be added by Procuring agency to the delivered duty paid (DDP) price at

the final destination.

(b) *Delivery schedule.*

(i) The Procuring agency requires that the goods under the Invitation for Bids shall be delivered at the time specified in the Schedule of Requirements which will be treated as the base, a delivery "adjustment" will be calculated for bids by applying a percentage, specified in the Bid Data Sheet, of the DDP price for each week of delay beyond the base, and this will be added to the bid price for evaluation. No credit shall be given to early delivery.

or

(ii) The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as nonresponsive. Within this acceptable range, an adjustment per week, as specified in the Bid Data Sheet, will be added for evaluation to the bid price of bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements.

or

(iii) The goods covered under this invitation are required to be delivered in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the bid price a fact or equal to a percentage, specified in the Bid Data Sheet, of DDP price per week of variation from the specified delivery schedule.

(c) *Deviation in payment schedule.*

(i) Bidders shall state their bid price for the payment schedule outlined in the SCC. Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate their suction in bid price they wish to offer for such alternative payment schedule. The Procuring agency may consider the alternative payment schedule offered by the selected Bidder.

or

(ii) The SCC stipulates the payment schedule offered by

The Procuring agency. If a bid deviates from the schedule and if such deviation is considered acceptable to the Procuring agency, the bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the bid as compared with those stipulated in this invitation, at the rate per annum specified in the Bid Data Sheet.

(d) *Cost of spare parts.*

(i) The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the Bid Data Sheet, is annexed to the Technical Specifications. The total cost of these items, at the unit prices quoted in each bid, will be added to the bid price.

or

(ii) The Procuring agency will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the Bid Data Sheet. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the bid price.

or

(iii) The Procuring agency will estimate the cost of spare parts usage in the initial period of operation specified in the Bid Data Sheet, based on information furnished by each Bidder, as well as on past experience of the Procuring agency or other procuring agencies in similar situations. Such costs shall be added to the bid price for evaluation.

(e) *Spare parts and after sales service facilities in the Procuring agency's country.*

The cost to the Procuring agency of establishing the minimum service facilities and parts inventories, as outlined in the Bid Data Sheet or else where in the bidding documents, if quoted separately, shall be added to the bid price.

(f) *Operating and maintenance costs.*

Since the operating and maintenance costs of the goods under procurement form a major part of the life cycle cost of the equipment, these costs will be evaluated in accordance with the criteria specified in the Bid Data Sheet or in the Technical Specifications.

(g) *Performance and productivity of the equipment.*

(i) Bidders shall state the guaranteed performance or efficiency in response to the Technical Specification. For each drop in the performance or efficiency below the norm of 100, an adjustment for an amount specified in the Bid Data Sheet will be added to the bid price, representing the capitalized cost of additional operating costs over the life of the plant, using the methodology specified in the Bid Data Sheet or in the Technical Specifications.

or

(ii) Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the bid, and adjustment will be added to the bid price using the methodology specified in the Bid Data Sheet or in the Technical Specifications.

(h) *Specific additional criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.*

The relevant evaluation method shall be detailed in the Bid Data Sheet and/or in the Technical Specifications.

Alternative 25.4 Merit Point System:

The following merit point system for weighing evaluation factors can be applied if none of the evaluation methods listed in 25.4 above has been retained in the Bid Data Sheet. The number of points allocated to each factor shall be specified in the Bid Data Sheet.

[In the Bid Data Sheet, choose from the range of]

Evaluated price of the goods	60 to 90
Cost of common list spare parts	0 to 20
Technical features, and maintenance and operating costs	0 to 20
Availability of service and spare parts	0 to 20
Standardization	0 to 20
Total	100

The bids earning the highest number of points will be deemed to be the lowest evaluated bid.

26. Contacting the Procuring agency
- 26.1 Subject to ITB Clause 23, no Bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.
- 26.2 Any effort by a Bidder to influence the Procuring agency in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

F. Award of Contract

27. Post-qualification
- 27.1 In the absence of prequalification, the Procuring agency will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.3.
- 27.2 The determination will take in to account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13.3, as well as such other information as the Procuring agency deems necessary and appropriate.
- 27.3 An affirmative determination will be a pre-requisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.
28. Award Criteria
- 28.1 Subject to ITB Clause 30, the Procuring agency will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is

- determined to be qualified to perform the contract satisfactorily.
29. Procuring agency's Right to Vary Quantities at Time of Award
- 29.1 The Procuring agency reserves the right at the time of contract award to increase or decrease, by the percentage indicated in the Bid Data Sheet, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
30. Procuring agency's Right to Accept any Bid and to Reject any or All Bids
- 30.1 The Procuring agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without there by incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Procuring agency's action.
31. Notification of Award
- 31.1 Prior to the expiration of the period of bid validity, the Procuring agency will notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.
- 31.2 The notification of award will constitute the formation of the Contract.
- 31.3 Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 33, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.
32. Signing of Contract
- 32.1 At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
- 32.2 Within thirty (30) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to The Procuring agency.
- 33 Performance Security
- 33.1 Within twenty(20) days of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.
- 33.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 32 or ITB Clause 33.1 shall constitute sufficient grounds for the annulment of the award and for forfeiture of the bid

34. Corrupt or
Fraudulent
Practices

security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.

34.1 The Government of Sindh requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the SPPRA, in accordance with the SPP Act, 2009 and Rules made there under:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and

(ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Procuring agency of the benefits of free and open competition;

(b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government-financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government-financed contract.

34.2 Furthermore, Bidders shall be aware of the provision stated in sub-clause 5.4 and sub-clause 24.1 of the General Conditions of Contract.

Part One - Section II.
General Conditions of Contract

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- 5.4 The Supplier shall permit the Procuring agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the procuring agency, if so required.
6. Patent Rights
- 6.1 The Supplier shall indemnify the Procuring agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring agency's country.
7. Performance Security
- 7.1 Within twenty(20) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring agency the performance security in the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 7.3 The performance security shall be denominated in the currency of the Contract acceptable to the Procuring agency and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency; or
 - (b) a cashier's or certified check.
- 7.4 The performance security will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.
8. Inspections and Tests
- 8.1 The Procuring agency or its representative shall have the right to inspect and/or test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring agency requires and where they are to be conducted. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
- 8.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at

The Goods' final destination. If conducted on the premises of the Supplier or its sub contractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring agency.

- 8.3 Should any inspected or tested Goods fail to conform to the Specifications, the Procuring agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring agency.
- 8.4 The Procuring agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring agency or its representative prior to the Goods' shipment from the country of origin.
- 8.5 Nothing in GCC clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing

9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring agency.

10. Delivery and Documents

10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.

10.2 Documents to be submitted by the Supplier are specified in SCC.

11. Insurance

11.1 The Goods supplied under the Contract shall be delivered duty paid(DDP) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers responsibility.

12. Transportation

12.1 The Supplier is required under the Contact to transport the Goods to a specified place of destination within the Procuring agency's country, transport to such place of destination in the Procuring agency's country, including insurance and storage, as shall be specified in the Contract, shall bear ranged by the Supplier, and related costs shall be included in the Contract Price.

13. Incidental Services

13.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the Procuring agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

13.2 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged for other parties by the Supplier for similar services.

14. Spare Parts

14.1 As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- (a) such spare parts as the Procuring agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

- 15.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.
- 15.3 The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring agency.
- 15.5 If the Supplier, having been notified, fails to remedy the defect(s)

Within the period specified in SCC, within a reasonable period, the Procuring agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring agency may have against the Supplier under the Contract.

16. Payment

16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.

16.2 The Supplier's request(s) for payment shall be made to the Procuring agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.

16.3 Payments shall be made promptly by the Procuring agency; but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier.

16.4 The currency of payment is Pak. Rupees.

17. Prices

17.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Procuring agency's request for bid validity extension, as the case may be.

18. Change Orders

18.1 The Procuring agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring agency;
- (b) the method of shipment or packing;
- (c) the place of delivery; and/or
- (d) the Services to be provided by the Supplier.

18.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made.

Made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty(30) days from the date of the Supplier's receipt of the Procuring agency's change order.

19. Contract Amendments

19.1 Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

20. Assignment

20.1 The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring agency's prior written consent.

21. Subcontracts

21.1 The Supplier shall notify the Procuring agency in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2 Sub contracts must comply with the provisions of GCC Clause 3.

22. Delays in the Supplier's Performance

22.1 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring agency in the Schedule of Requirements.

22.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

22.3 Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.

23. Liquidated

23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or

Damages

all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 24.

24. Termination for Default

24.1 The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency pursuant to GCC Clause 22; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- (c) if the Supplier, in the judgment of the Procuring agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

“corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

24.2 In the event the Procuring agency terminates the Contract in whole or in part pursuant to GCC Clause 24.1, the Procuring agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those

undelivered, and the Supplier shall be liable to the Procuring agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

25. Force Majeure

25.1 Notwithstanding the provisions of GCC clauses 22, 23, and 24, the Supplier shall not be liable for failure of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

25.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

26. Termination
for Insolvency

26.1 The Procuring agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring agency.

27. Termination
for
Convenience

27.1 The Procuring agency, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

27.2 The Goods that are complete and ready for shipment within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring agency at the

Contract terms and prices. For the remaining Goods, the Procuring agency may elect:

- (a) to have any portion completed and delivered at the Contract terms and prices; and/or
- (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.

28. Resolution of Disputes

28.1 The Procuring agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

28.2 If, after thirty (30) days from the commencement of such informal negotiations, the Procuring agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed manner and/or arbitration.

29. Governing Language

29.1 The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

30. Applicable Law

30.1 The Contract shall be interpreted in accordance with the laws of the Procuring agency's country, unless otherwise specified in SCC.

31. Notices

31.1 Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.

31.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and Duties

32.1 Suppliers shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Procuring agency.

Notes on the Instructions to Bidders

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

Part One Section I contains provisions that are to be used unchanged. Part Two Section II consists of provisions that supplement, amend, or specify in detail information or requirements included in Part One Section I and which are specific to each procurement.

Matters governing the performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are not normally included in this section, but rather under Part one Section II, General Conditions of Contract, and / or Part Two Section III, Special Conditions of Contract. If duplication of a subject is inevitable in the other sections of the document prepared by the Procuring agency, care must be exercised to avoid contradictions between clauses dealing with the same matter.

These Instructions to Bidders will not be part of the contract.

Notes on the General Conditions of Contract

The General Conditions of Contract in Part One Section II, read in conjunction with the Special Conditions of Contract in Part Two Section III and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

The General Conditions of Contract herein shall not be altered. Any changes and complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract in Part Two Section III.

Bill of Quantity

(A) Repair/Renovation of Disposal work, Repair / Renovation & ew Electric P/Set, P.E Pipe Rising main 4" dia
Construction of C.C Drains i/e Brick pavement for Drainage Scheme Mandhra .

Head of A/c: Rehabilitation of Drainage Scheme Mandhra.

S.#	Qty	Item	Rate	Unit	Amount
PART- A REPAIR / RENOVATION OF DISPOSAL WORKS					
1		Cleaning of collecting Tank / Sump Well below ground level i/e: de-watering of sullage water & disposal of garbage & solid waste etc out side of the tank etc complet. (PHSI #.T-1 P-59)			
	1396.37	cft	@Rs 11900.00	P.% Cft	Rs. 16617
2		Earth work excavation in ashes, sand soft soil or silt clearance lead upto 50 ft: in ordinary soil. (GSI #.2 P-1)			
	13888.07	cft	@Rs 1663.75	P.% Cft	Rs. 23106
3		Extra for wet earth work.(CSI NO.3 P-01)			
	13888.07	cft	@Rs 1058.75	P.% Cft	Rs. 14704
4		Extra for every 50' additional lead or part there of(CSI NO.03 P-01)			
	13888.07	Cft	@Rs. 403.12	P.% Cft	Rs. 5599
5		Dismantalling brick work in line or cement mortor.(GSI NO.13 P-10).			
	162.00	Cft	@Rs. 1285.63	P.% Cft	Rs. 2083
6		Paeca brick work in other than building,brides and striking of joint upto 20' height.(CSI NO. 17 p-20)			
	710.88	Cft	@Rs. 12346.65	P.% Cft	Rs. 87770
7		C.C plain i/e placing,compacting,finishing curing etc, complete and washing of stone aggregate w/o shuttering Ratio 1:2:4. (CSI O1 P-171).			
	8.75	Cft	@Rs. 14429.25	P.% Cft	Rs. 1263
8		Providing C.C Topping 1:2:4 3' thick (CSI NO. 16 P-41).			
	358.00	Cft	@Rs. 4411.82	P.% Cft	Rs. 15794
9		Dismantalling of RCC work.(GSI NO.13 P-10)			
	87.88	Cft	@Rs. 5445.00	P.% Cft	Rs. 4785
10		R.C.C work i/e: all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/e screening and washing of shingle (a) R.C work in roof slab members laid in situ or preeceast 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(a) P/17)			
	135.39	Cft	@Rs 337.00	P.Cft	Rs. 45625
11		Fabrication of mild steel reinforcement for cement concrete i/e cutting bending laying in position making joints and fastening i/e cost of binding wire also includes removal of rust from bars. (G.S.I-8(a) P/17)			
	5.43	Cwt	@Rs 5001.70	P.Cwt	Rs. 27159

12	Cement Plaster (1:6) up to 12'height 1/2"thick (CSI No.12 P-51)	1910.96 / sft	@Rs. 2206.60	P.% Sft /	Rs. 42167
13	Cement Plaster (1:4) up to 12'height 3/8"thick (CSI No.09 P-53)	1910.96 / sft	@Rs. 2197.52	P.% Sft /	Rs. 41994
14	Cement pointing (1:3) striking joints on walls,(G.S.I-11(b) P-52)	814.50 / sft	@Rs. 1213.58	P.% Sft /	Rs. 9885
15	Small iron sub as guest plate knees,bends,strips, rings etc i/c cutting,drilling,reverting handling assembling in position.(CSI No.1 p-90)	9.12 / cwt	@Rs. 6420.61	p.cwt /	Rs. 58544
16	White wash 2 coats. (GSI #.26, P-53)	3031.50 / Sft	@Rs 425.85	P.% Sft /	Rs. 12910
17	Colour washing 2 coats. (GSI #.25, P-53)	5359.50 / Sft	@Rs 859.90	P.% Sft /	Rs. 46086
18	Preparing painting of old surface painting door and windows of any type i/c edges.(CSINO.4 (C) P-67)	239.00 / Sft	@Rs 1489.68	P.% Sft /	Rs. 3560
19	Barrow pit excavation undressed lead upto 100ft ordinary soil (G.S.I. No. 3(a) P-1)	10136.91 / cft	@Rs 2117.50	P.%0cft /	Rs. 21465
20	Extra for every 50' additional lead or part thereof, (CSI NO. P-)	10136.91 / cft	@Rs 407.00	P.% cft /	Rs. 41257
21	Laying earth in 6"thick lyer levelling and dressing etc. complete. (GSINO.3 P-1).	10136.91 / cft	@Rs 263.00	P.%0 cft /	Rs. 2666
22	Dry brick on edge paving sand grouted i.e preparation of bed by watering ramming and bringing the same to proper camber by 1/2" mud plaster.(CSIII NO.5 p-16).	750.00 / sft	@Rs 3823.57	P.% sft /	Rs. 28677
				Total	Rs. 553716

PART-"B". PUMPING MACHINERY

- a) A.C Electric Pumping Set 10 BHP
① Supplying & installing in position i/c transportation to site of work at Disposal work at villaege Mandhra A.C electric pmping set consisting of A.C electric motor of (KSB) made 10 BHP 3 phase 50 cycles 400-420 volts of 1450 RPM (Siemens made) type (ILA-7-130-4 AA-60) frame 132 M coupled with Golden non-clogging pump type (Golden) size 4"x3" mounted on common steel frame on base plate acapable of discharging 155 GPM against the required head of 40 feet i/c substakubg ib C.C Ratio 1:2:4 M.S nuts & bolts of 5/8" dia to be embedded in C.C foundation providing & fixing automatic sstar delta starter type Golden made proviiding and fixing on prepared board iron lad triple pole and neutral switch fuse with rewireable type fuse lind i/c 500 volts grade 30 mps: and ampere meter 0-200 amp: i/c providing and fixing volt meter 0-500 volts installed board i/c providing fixing metallled board to accommodate main or sub main control switch (M.C.U) box type i/c providing i/c phase indication with holder and providing internal electric wiring for main swith 2-39/2.14(19)0.83 PVC insulate wire 60 volts grae in 50.8 mm (2") PVC conduit on surface as required i/c providing and fixing earthing set with 0.6mx0.6mmx6.3M) 92'x2'x1 1/2") copper plate burried in the ground as depth 3.7 m (12') as per Pak PWD Spetification and testing pumping set against the required head of 72 hours etc, complete. (R.A approved). (as per existing Pumping Machinery).

1.00 Set @Rs 217000.00 P. Set Rs. 217000

- 2 Rewinding of A.C electric motor 3 phase 7.50 BHP 4 pole 1450 RPM i/c change of ball bearing and testing for 72 hours also i/c dismentalling and refixing at the site of work etc, complete. (CSI NO: 97-P.No: 110)

1.00 No. @Rs 10599.00 P. Set Rs. 10599

- ③ Repair of Golden sullage pump 4"x3". (Approved rate)

1.00 No. @Rs 7600.00 P. Set Rs. 7600

- 4 Providing P.E pipe of approved quality to be tested pressure 200'. (PHSI NO.01 P-05) 27.00 rft @Rs 268.00 P.rft Rs. 7236

- 5 Supplying blank flanges. (PHSI NO.12 P-17)

8.00 Nos. @Rs 437.50 P. Set Rs. 3500

6	Supply G.I pipe 4"dia.	12.00 rft	@Rs 431.93	P.rft	Rs. 51
7	Supply C.I sluice valve heavy pattern test pressure 21.0 k.g/cm or 200 lbs/sq inch(Improved)(PHSI NO.2 P-10) 4" dia	1.00 No	@Rs 5460.00	P.Each	Rs. 5460
8	Reflex valve heavy pattern rest pressure 21 kg/sq. cm or 300 lbs/sq. inch. (PHSMI #.16, P-11)	2.00 Nos	@Rs 1706.25	P.Each	Rs. 3412.50
9	Butt fusion joint 4"dia. (ESI NO.81 P-22).	4.00 Nos	@Rs 1000.00	P.Each	Rs. 4000
(10)	Flange Adaptor 4" (M.R)	4.00 Nos	@Rs 1215.00	P.Each	Rs. 4860
(10)	Providing & fixing MCO oil starter MEECO made. (Approved rate)	1.00 No	@Rs 27800.00	P.Each	Rs. 27800
11	Providing and laying(Main or sub-main) PVC insulated with size 4-7/044(6mm ²)copper conductor 1.1/2"dia PVC conduit on surface.(Elec:Sch: Item-I-34 p-5)	39.00 Meter	@Rs 656.00	P.Meter	Rs. 25584
12	Jointing C.I / M.S flanges 4"dia. (CSI NO. 01 P- 35).	8.00 Nos 4"Ø	@Rs 513.00	P.Each	Rs. 4104
					Total Rs. 326

Part "C" P.E PIPE RISING MAIN 6"DIA DRAINAGE SCHEME MANDHIRA..

01.Excavation for pipe line in trenches i/c pits in soft soil or mud plaster i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting, joints holes & disposal of surplus earth within one chain or as directed by Engineer Incharge i/c providing fence guards light flanges and temporary crossing for non vehicular traffic where ever required lift upto 5' and lead upto one chain.

(PHSINO.1, P.46). 4"dia.

2100.00 cft. ✓

@Rs:3600/- ✓

P.%0 Cft. ✓

Rs: 7560/- ✓

02.Providing laying jointing & fixing in trenches i/c fixing and jointing and testing etc complete in all respect the high Density polyethylene P.E pipes(HDPE-100) for w/s conforming 150 4427 DIN 8074/ 8075 BS 3580 & PSI 3051 (PHSI:No:01 P/ 25)(110 mm) (PN08).

4"dia. ✓

300.0 rft. ✓

@Rs:224/- ✓

P.rft. ✓

Rs:67200/- ✓

03.Supplying Elbow 90° pressure pipes. (SMINO.02, P.107)

4"dia. ✓

1.00 No. ✓

@Rs:1655/- ✓

P.Each. ✓

Rs: 1655/- ✓

05.Providing tee (Equal)

4"dia. ✓

1.00 No. ✓

@Rs:1986/- ✓

P.Each. ✓

Rs: 1986/- ✓

06. Butl fusion joint. (Sch of mat I No. H p-114)

4"dia. ✓

3.0 Joint. ✓

@Rs:1000/- ✓

P.Joint ✓

Rs: 3000/- ✓

07. Refilling the excavated stuff in trenches 6" thick layers for leveling dressing i/c watering ramming to full compaction etc complete (PHSINO.24, P.53). 90% excavation stuff to be refilled only.

1890.00 Cft. ✓

@Rs:2760/- ✓

P.%0 Cft ✓

Rs: 5216/- ✓

Total

Rs: 79057/- ✓

Part D C.C Drains i/c Brick pavement.

1	Excavation in foundation of building bridges and other structures i/c dag belling dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18/ P/4)	4150.00 cft	@Rs 3176.25	P%0Cft	Rs 13,181
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 (G.S.I-5 P/17)	1887.50 Cft	@Rs 11288.75	P%Cft	Rs 2,13,075
3	Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4 P/ 24)	12375.00 cft	@Rs 11948.36	P%Cft	Rs 1,47,861
4	Construction of standared open type drains connuttee bloc 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 curringcomplete as per drawing design.(PHSI NO. D (i) P-58).	Type-A 2500 rft	@Rs 94.00	p.rft	Rs 2,35,000
		Type-B 500 rft	@Rs 174.00	p.rft	Rs 87,000
5	Cement plaster (1:4) up to 20'height ½"thick (G.S.I-11/ P/57)	29450.00 Sft	@Rs 2283.93	P%Sft	Rs 6,72,617
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. (G.S.I-6 P/17)	422.00 Cft	@Rs 337	P-Cft	Rs 1,42,214
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-7 (ii) (a) P/19)	15.07 Cwt	@Rs 5001.70	P-Cwt	Rs 75,376
8	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:2:4 (G.S.I-5 P/17)	226.78 Cft	@Rs. 14429.25	P%Cft	Rs 3,27,23
				Total:	Rs 29,49,796

Abstract of Cost

S.#.	Name of Work	Schedule Item	on Schedule Item	Total
Part - I	Repair/renovation of Dr.posal Works	553716 ✓	--	553716 ✓
Part - II	Repair/renovation & New Electric Pumping Set.	69079 ✓	257260 ✓	326339 ✓
Part - III	P.E Pipe Rising main 4" dia.	79057 ✓	--	79057 ✓
Part - IV	Constt: of CC Drains i/c Brick pavement.	2949796 ✓	--	2949796 ✓
	One year O/M Cost.	--	424000 ✓	424000 ✓
	Total	3651648 ✓	681260 ✓	4332908 ✓

Bill of Quantity

(A) Repair & Construction of C.C Drains. For Drainage Scheme Seehar village taluka Dokri Distt: Larkano.

Head of A/c: Rehabilitation of Drainage Scheme Seehar Village.

S.No.	Qty.	Item of work.	Rate	Unit	Amount
1		Earth work excavation in Ashes, sand soft soil or silt clearance undressed lead upto 50' (GSI NO 2 P-1).			
	9693.00 cft	@Rs. 1663.75	P%0cft		Rs. 16127
2		Extra for wet earth work. (CSINO.03 P-01).			
	9693.00 cft	@Rs. 1058.75	P%0cft		Rs. 10262
3		Extra for every 50' additional lead or part thereof. (CSI NO 03 P-01).			
	9693.00 cft	@Rs. 403.12	P%0cft		Rs. 3907
4		Excavation in foundation of building bridges and other structures i/c dag belling dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18 (b) P/4)			
	7540.00 cft	@Rs 3176.25	P%0 Cft		Rs. 23949
5		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 (G.S.I-5(i) P/16)			
	3320.00 Cft	@Rs 11288.75	P% Cft		Rs. 37478
6		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. (PHSI NO. D(i) P-58)			
	Type A 4000.0 Rft	@Rs 94.00	P-Rft		Rs. 376000
	Type B 1200.0 Rft	@Rs 174.00	P-Rft		Rs. 208800
7		Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4(e) P/21)			
	13875.00 cft	@Rs 11948.36	P% Cft		Rs. 165783
8		Cement Plaster (1:4) up to 20'height 1/2"thick (G.S.I-11(b) P/52)			
	30250.00 sft	@Rs 2283.93	P% sft		Rs. 690889
9		Dismantalling of RCC work. (GSI NO.13 P-10)			
	132.50 cft	@Rs 5445.00	P% Cft		Rs. 7215
10		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(a) P/17)			
	391.00 cft	@Rs. 337.00	P.Cft		Rs. 131767

11 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(a) P/17)

11.39 ✓ Cwt @Rs 5001.70 ✓ P-Cwt ✓ Rs. 56969 ✓

12 Dismantling of CC plain 1:2:4. (GSI NO 13 P-10)

61.99 ✓ cft @Rs 3327.50 ✓ P% Cft ✓ Rs. 2063 ✓

13 Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:2:4 (G S.I-5(i) P/16)

308.22 ✓ Cft @Rs 14429.25 ✓ P% Cft ✓ Rs. 44474 ✓

Total Rs. 360504

Abstract of Cost

S.#	Name of work.	Schedule Item	Non-Sch. Item	Total
1	Repair & Construction of C.C Drains.	3605044 ✓	--	3605044
	One year O/M Cost.S	--	424000 ✓	424000 ✓
	Total	3605044 ✓	424000	4029044 ✓

Bill of Quantity

(A) Repair / Renovation of Disposal work, Pumping Machinery & a.C pipe rising main 4" dia for Drainage Scheme Balhrej.

Rehabilitation for One year Operation & Maintenance 2015-16.

S.#	Qty	Item	Rate	Unit	Amount
<u>PART- I REPAIR / RENOVATION OF DISPOSAL WORKS</u>					
1		Cleaning of collecting Tank / Sump Well below ground level i/c: de-watering of sullage water & disposal of garbage & solid waste etc out side of the tank etc complet. (PHSI #.T-1 P-59)			
	2792.75 ✓	cft	@Rs 11900.00 ✓	P%0 Cft ✓	Rs. 33234 ✓
2		Earth work excavation in ashes, sand, soft soil or silt clearance lead upto 50 ft: ordinary soil. (GSI #.2 P-1)			
	2855.64 ✓	cft	@Rs 1663.75 ✓	P%0 Cft ✓	Rs. 4751 ✓
3		Extra for wet earth work.(CSI NO.3 P-01)			
	2855.64 ✓	cft	@Rs 1058.75 ✓	P%0 Cft ✓	Rs. 3023 ✓
4		Extra for every 50' additional lead or part there of(CSI NO.03 P-01)			
	2855.64 ✓	Cft	@Rs. 403.12 ✓	P.%0Cft ✓	Rs. 1151 ✓
5		Dismantalling brick work in line or cement mortar.(GSI NO.13 P-10).			
	123.50 ✓	Cft	@Rs. 1285.63 ✓	P.%0 Cft ✓	Rs. 1588 ✓
6		Pacea brick work in other than building plinth in cement sand mortar. ratio 1:6.(CSI NO.4 P-25).			
	36.00 ✓	Cft	@Rs. 12346.65 ✓	P.% Cft ✓	Rs. 4445 ✓
7		Providing C.C topping 3" thick (CSI No.5p-17)			
	358.00 ✓	Cft	@Rs. 4411.82 ✓	P.% Cft ✓	Rs. 15794 ✓
8		Dismantalling of RCC work.(GSI NO.13 P-10)			
	87.88 ✓	Cft	@Rs. 5445.00 ✓	P.% Cft ✓	Rs. 4785 ✓
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 1/4" gauge. (G.S.I-6(a) P/17)			
	131.38 ✓	Cft	@Rs 337.00 ✓	P.Cft ✓	Rs. 44275 ✓
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. (G.S.I-8(a) P/17)			
	5.27 ✓	Cwt	@Rs 5001.70 ✓	P.Cwt ✓	Rs. 26359 ✓
11		Cement Plaster (1:1) up to 20'height 1/2"thick (G.S.I-11(b) P/52)			
	573.00 ✓	Cft	@Rs. 2283.93 ✓	P.% Cft ✓	Rs. 13087 ✓

Small iron work such as gusset plate knees, bends, strips, rings etc, i/c cutting, drilling, reverting handling assembling and fixing but excluding erection in position. (CSI No.1 P-90)

2.370 cwt @Rs. 6420.61

P. cwt
P.S.T. Rs. 15217

14 White wash 2 coats. (GSI #.26, P-53)

4265.25 Sft @Rs 425.84

P.% Sft Rs. 18163

15 Colour washing 2 coats. (GSI #.25, P-53)

4967.75 Sft @Rs 859.90

P.% Sft Rs. 42718

16 Preparing painting of old surface painting door and windows of any type i/c edges. (CSINO.4 (C) P-67)

259.00 Sft @Rs 1489.68

P.% Sft Rs. 3858

17 Dry brick work on edge paving sand grouted i/c preparation of bed by watering ramming and bringing the same to proper camber by 1/2" thick mud plaster. (CSI NO.5 p-16).

750.00 cft @Rs. 3823.57

P.% cft Rs. 28677

Total Rs. 261125

PART "II": Repair of P/Machinery & New Pumping set

A.C Electric Pumping Set 10 BHP

1 Supplying & installing in position i/c transportation to site of work at Disposal work at village Bellheji A.C electric pumping set consisting of A.C electric motor of (Siemens) made 10 BHP 3 phase 50 cycles 400-420 volts of 1450 RPM (Siemens made) type (ILA-7-130-4 AA-60) frame 132 M coupled with NICE non-clogging pump type (Golden) size 4"x3" mounted on common steel frame on base plate capable of discharging 140 GPM against the required head of 40 feet w/c substructure C.C Ratio 1:2:4 M.S nuts & bolts of 5/8" dia to be embedded in C.C foundation providing & fixing automatic star delta starter type Golden made providing and fixing on prepared board iron ladder triple pole and neutral switch fuse with rewirable type fuse link i/c 500 volts grade 30 mps; and amper meter 0-200 amp; i/c providing and fixing volt meter 0-500 volts installed board i/c providing fixing metal board to accommodate main or sub main control switch (M.C.U) box type i/c providing i/c phase indication with holder and providing internal electric wiring for main switch 2-39/2, 14(19)0.83 PVC insulate wire 60 volts grade in 50.8 mm (2") PVC conduit on surface as required i/c providing and fixing earthing set with 0.6mx0.6mx6.3M 92"x2"x1 1/2" copper plate buried in the ground as depth 3.7 m (12') as per Pak PWD Specification and testing pumping set against the required head of 72 hours etc. complete. (R.A approved). (as per existing Pumping Machinery).

2.00 Sets @Rs 213000.00

P. Set Rs. 426000

2 Rewinding of A.C electric motor 3 phase 7.50 BHP 4 pole 1450 RPM i/c change of ball bearing and testing for 72 hours also i/c dismantling and refixing at the site of work etc. complete. (CSI NO: 97 (C) P.No: 110)

2.00 Nos @Rs 10599.00

P. Set Rs. 21198

3 Providing, laying and fixing in trenches i/c fitting jointing and testing etc, complete in all respects the height directly polyethylene P.E pipe (HDPE-100) (PISI NO.1 P-25) PN-

53.00 rft @Rs 224.00

p.rft Rs. 11872

4 Supply C.I sluice valve heavy pattern test pressure 21.0 k.g/cm or 200 lbs/sq inch (Improved) (PISI NO.2 P-10)

4.00 Nos @Rs 5460.00

P.Each Rs. 21840

5	Reflex valve heavy pattern rest pressure 21 kg/sq. cm or 300 lbs/sq. inch. (PHSMI #.16, P-11)	4.00 / Nos	@Rs 1706.25 /	P.Each /	Rs. 6825 /
6	G.I Pipe 4" dia.(CSI NO. P-)	16.00 / rft	@Rs 413.93 /	p.rft /	Rs. 6623 /
7	Flange Adopter 4" dia.(M.R)	12.00 / Nos	@Rs 1215.00 /	P.Each /	Rs. 14580 /
8	Providing and fixing M.S flange 4" dia.	12.00 / Nos	@Rs 596.75 /	P.Each /	Rs. 7161 /
9	Providing & fixing automatic star delta starter Taiwanmade(Meeco Pak)(M.R)	1.00 / No	@Rs 27800.00 /	P.Each /	Rs. 27800 /
10	Butt fusion joint 4" dia.(CSI NO.H P.NO.22)	12.00 / Nos	@Rs 1000.00 /	P.Each /	Rs. 12000 /
10	Jointing C.I/M.S flanged and specials pipes and inside trenches i/c: supplying of the rubber packing of the required thickness nuts bolts and washers etc and tools required for jointing and testing the joints in the specifies pressure etc complete 4" dia.. (PHSI #.1, P-40)	16.00 / Nos	@Rs 513.00 /	P.Each /	Rs. 8208 /
11	Providing and laying (Main or Sub-Main)PVC insulatyed with size 4-7/044(6mm2)copper conductor 1.1/2" dia PVC conduit of surface.(Elec:Sch:Item No.34 p-5).	90.00 / meter	@Rs 566.00 /	P.Each /	Rs. 50940 /
				Total	Rs. 615047 /

PART-"III" Repair of Transformer 25 KVA.

1	Supply and installing coil for 25 KVA Transformer (M.R)				
	H.T	3.00 / Coils	@Rs 15000.00 /	P.Each /	Rs. 45000 /
	L.T	3.00 / Coils	@Rs 8000.00 /	P.Each /	Rs. 24000 /
2	Supplying oil for transformer (M.R)	80.00 / Leters	@Rs 180.00 /	P.Liter /	Rs. 14400 /
3	Labour Change. (M.R)	1.00 / No.	@Rs 5000.00 /	P.Each /	Rs. 5000 /
				Total	Rs. 88400 /

Part "IV" Repair of C.C Drains i/c Brick pavement.

1	Excavation in foundation of building bridges and other structures i/c dag belling dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18/ P/4)	3015.00 cft	@Rs 3176.25	P%0Cft	Rs 9576
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 (G.S.I-5 P/17)	905.00 Cft	@Rs 11288.75	P%Cft	Rs 102163
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 Icecement 1/32"thick to expose surface faces finished smooth curing complete as per drawing design.(PHSI NO.D(i) P-58)	Type-A 1000 rft Type-B 400 rft	@Rs 94.00 @Rs 174.00	p.rft p.rft	Rs 94000 Rs 69600
4	Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4 P/ 24)	5587.50 cft	@Rs 11948.36	P%Cft	Rs 667615
5	Cement plaster (1.4) up to 20'height 1/2"thick (G.S.I-11/ P/57)	13200.00 Sft	@Rs 2283.93	P%Sft	Rs 301479
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 1/4" gauge. (G.S.I-6 P/17)	186.80 Cft	@Rs 337	P-Cft	Rs 62952
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-7 (ii) (a) P/19)	6.67 Cwt	@Rs 5001.70	P-Cwt	Rs 33361
8	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:2:4 (G.S.I-5 P/17)	103.48 Cft	@Rs. 14429.25	P%Cft	Rs 14931
Total:					Rs 1355677

PART-"VI". P.E Pipe Rising Main 4" dia.

- 1 Excavation for pipe line in trenches i/c pits in soft soil or mud plaster i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade cutting, joints holes & disposal of surplus earth within one chain or as directed by Engineer. incharge i/c providing fence guard light flanges and temporary crossing for non vehicular traffic where ever required lift upto 5' and lead upto one chain.(PHSI NO.1 P-46).

13200.00 ✓ cft @Rs 3600.00 ✓ P%0cft ✓ Rs. 47520 ✓

- 2 Providing laying & fixing in P.E trenches i/c fitting jointing and testing etc. complete in all respect to high Density Polythene pipe (HDPE)100 for w/s conforming (110 m) (PHSI NO.1 P-25).

2200.00 ✓ rft @Rs 224.00 ✓ p.rft ✓ Rs. 492800 ✓

- 3 Supplying and fixing bend 45° pressure pipe.(SMI NO.02 P-107). 4" dia

2.00 ✓ Nos @Rs 1324.00 ✓ p.each ✓ Rs. 2648 ✓

- 4 Refilling the excavated stuff in trenches 6" thick layers for levelling and dressing j/i/c watering ramming to full completion etc (PHSI NO.24 P-53).

11880.00 ✓ cft @Rs 2760.00 ✓ P%0cft ✓ Rs. 32789 ✓

- 5 Buttl fusion joint. (SMI NO. ~~H P-10~~)

2.00 ✓ Joints @Rs 1000.00 ✓ p.each ✓ Rs. 2000 ✓

Total Rs. 577757 ✓

Abstract of Cost

S.#	Name of Work	Schedule item	N.Sch:Item	Amount
Part-I	Repair & Renovation of Disposal works.	261125 ✓	--	261125 ✓
Part-II	Repair of pumping Machinery	146667 ✓	468380 ✓	615047 ✓
Part-III	Repir of Transformer 25 KVA	--	88400 ✓	88400 ✓
Part-IV	Repair & Constt. of CC Drains i/c Brick pavement	1355677 ✓	--	1355677 ✓
Part-V	Rising main 4" dia.	577757 ✓	-	577757 ✓
	One year O/M Cost	-	424000 ✓	424000 ✓
	Total	2341226 ✓	980780 ✓	3322006 ✓

Bill of Quantity

(A) Construction of C.C Drains for Drainage Scheme Gund taluka Dokri District Larkano.

Head of A/c: Rehabilitatin of Drainage Scheme Gund for One year Operation & Maintenance.

S.#.	Qty.	Item of work.	Rate	Unit	Amount
Part "A" C.C Drains.					
1		Earth work excavation in Ashes, sand soft oil or silt clearnce undressed lead upto 50' (GSI NO 2 P-1).			
	1556.59	cft	@Rs 1663.75	P%0 Cft	Rs. 2590
2		Extra for wet earth work.(CSINO.3 P-1).			
	1556.59	cft	@Rs 1058.75	P%0 Cft	Rs. 1648
3		Extra for every 50' additional lea or part thereof. (CSINO.3 P-1).			
	1556.59	cft	@Rs 403.12	P%0 Cft	Rs. 628
4		Excavation in foundation of building bridges and other structures i/c dag belling dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18 (b) P/4)			
	8544.00	cft	@Rs 3176.25	P%0 Cft	Rs. 27138
5		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 (G.S.I-5(i) P/16)			
	3634.50	Cft	@Rs 11288.75	P% Cft	Rs. 410290
6		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.(PHSI NO. D(i) P-58)			
	Type A	3900.0 Rft	@Rs 94.00	P-Rft	Rs. 366600
	Type B	1700.0 Rft	@Rs 174.00	P-Rft	Rs. 295800
7		Pacca brick work in foundation and plinth in cement sand mortar(1:6) (G.S.I No. 4(e) P/21)			
	9825.00	cft	@Rs 11948.36	P% Cft	Rs. 1173926
8		Cement Plaster (1:4) up to 20'height ½"thick (G.S.I-11(b)/ P/52)			
	21600.00	sft	@Rs 2283.93	P% sft	Rs. 493329
9		Dismantalling of RCC work.(GSI NO.13 P-10)			
	42.20	cft	@Rs 5445.00	P% Cft	Rs. 2298
10		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. (G.S.I-6(a) P/17)			
	289.20	cft	@Rs 337.00	P.Cft	Rs. 97460

- 11 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(a) P/17)

10.32 Cwt @Rs 5001.70 P-Cwt Rs. 51618

- 12 Dismantalling of CC plain 1:2:4.(GSI NO.13 P-10)

30.49 cft @Rs 3327.50 P% Cft Rs. 1015

- 13 Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:2:4 (G.S.I-5(i) P/16)

194.83 Cft @Rs 14429.25 P% Cft Rs. 28113

Total Rs. 2952451

Abstract of Cost

S.#.	Item of work.	Schedule Item.	Non-Schedule Item.	Total
1	Constt: of C.C drains.	2952453 ✓	--	2952453 ✓
	One year O/M Cost	--	424000 ✓	424000 ✓
	Total	2952453 ✓	424000 ✓	3376453 ✓

Bill of Quantity

(A) **Repair/Renovation of Disposal work, Repair & Renovation & New Electric P/Set, P.E pipe Rising 4" dia & Constt:of C.C Drains i/e Brick pavement for Drainage Scheme Gujhar taluka Dokri District Larkano.**

Head of A/c: Rehabilitation of Drainage Scheme Gujhar One year Operation & Maintenance.

S.#	Qty	Item	Rate	Unit	Amount
PART- A REPAIR / RENOVATION OF DISPOSAL WORKS					
1		Cleaning of collecting Tank / Sump Well below ground level i/e: de-watering of sullage water & disposal of garbage & solid waste etc out side of the tank etc complet. (P.H.SI #.T-1 P-59)			
	1396.37 cft		@Rs 11900.00	P%0 Cft	Rs. 16617
2		Earth work excavation in ashes, sand, soft soil or silt clearance lead upto 50 ft: chain in ordinary soil. (GSI #.2 P-1)			
	751.00 cft		@Rs 1663.75	P%0 Cft	Rs. 11732
3		Extra for wet earth work.(CSI NO.3 P-01)			
	7051.69 cft		@Rs 1058.75	P%0 Cft	Rs. 7466
4		Extra for every 50' additional lead or part there of(CSI NO.03 P-01)			
	7051.69 Cft		@Rs. 403.12	P.%0Cft	Rs. 2843
5		Dismantalling brick work in line or cement mortar.(GSI NO.13 P-10).			
	159.50 Cft		@Rs. 1285.63	P.%0Cft	Rs. 2051
6		Pacea brick work in other than building,brides and striking of joint upto 20' height.(CSI NO. 17 p-20)			
	485.85 Cft		@Rs. 12346.65	P.% Cft	Rs. 59986
7		C.C plain i/e plcing,compacting,finishing curring etc. complete and washing of stone aggregate w/o shuttering Ratio 1:2:4. (CSI O.5 P-17).			
	89.50 Cft		@Rs. 14429.25	P.% Cft	Rs. 12914
8		Dismantalling of RCC work.(GSI NO.13 P-10)			
	167.70 Cft		@Rs. 5445.00	P.% Cft	Rs. 9131
9		R.C.C work i/e: all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface i/e screening and washing of shingle (a) R.C' work in roof slab members laid in situ or preeceast 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(a) P/17)			
	233.86 Cft		@Rs 337.00	P.Cft	Rs. 78811
10		Fabrication of mild steel reinforcement for cement concrete i/e cutting bending laying in position making joints and fastening i/e cost of binding wire also includes removal of rust from bars. (G.S.I-8(a) P/17)			
	9.39 Cwt		@Rs 5001.70	P.Cwt	Rs. 46966

11	Cement Plaster (1:6) up to 12' height 1/2" thick (CSI No.12 P-51)				
	1086.26	sft	@Rs. 2206.60	P.% Sft	Rs. 23969
12	Cement Plaster (1:4) up to 20' height 3/8" thick (G.S.I-09 P-53) Qty: same as item No.12.				
	1086.26	sft	@Rs. 2197.52	P.% Sft	Rs. 23871
13	Cement pointing (1:3) striking joints on walls.(G.S.I-11(b) P/52)				
	443.50	sft	@Rs. 1213.58	P.% Sft	Rs. 5382
14	Small iron work such as guest plate knees, bends, strips, ringsets, i/c cutting, drilling, reworking, handling, assembling and fixing but excluding erection in position.(CSI No.1 p-90)				
	6.17	cwt	@Rs. 6170.61	p.cwt	Rs. 39615
15	White wash 2 coats. (GSI #.26, P-53)				
	2795.75	Sft	@Rs. 425.85	P.% Sft	Rs. 11906
16	Colour washing 2 coats. (GSI #.25, P-53)				
	4532.50	Sft	@Rs. 859.90	P.% Sft	Rs. 38975
17	Preparing painting of new surface painting door and windows of				
	169.50	Sft	@Rs. 1489.68	P.% Sft	Rs. 2525
18	Barrow pit excavation undressed lead upto 100ft ordinary soil (G.S.I. No. 3(a) P-1)				
	6757.77	cft	@Rs. 2117.50	P.% 0cft	Rs. 14310
19	Extra for every 50' additional lead or part thereof (CSI NO. P) Qty: same as item No. 17.				
	6757.77	cft	@Rs. 5039.00	P.% 0cft	Rs. 34052
20	Laying earth in 6" thick layer levelling and dressing etc. complete. (GSI No. 3 p-1) Qty: same as item No.20.				
	6757.77	cft	@Rs. 263.00	P.% 0cft	Rs. 1777
				Total	Rs. 43167 444899 = ✓

PART-"B". PUMPING MACHINERY

a) A.C Electric Pumping Set 7.50 BHP

- ① Supplying & installing in position i/c transportation to site of work at Disposal work at Gujhar A.C electric pmping set consisting of A.C electric motor of (Siemens) made 7.50 BHP 3 phase 50 cycles 400-420 volts of 1450 RPM (Siemens made) type (ILA-7-130-4 AA-60) frame 132 M coupled with Golden non-clogging pump type (Golden) size 4"x3" mounted on common steel frame on base plate acapable of discharging 140 GPM against the required head of 40 feet i/c substakktubg ib C.C Ratio 1:2:4 M.S nuts & bolts of 5/8" dia to be embeded in C.C foundation providing & fixing automatic sstar delta starter type Golden made proviiding and fixing on prepared board iron lad triple pole and neutral switch fuse with rewireable type fuse lind i/c 500 volts grade 30 mps: and ampere meter 0-200 amp: i/c providing and fixing volt meter 0-500 volts installed board i/c providing fixing metallled board to accommodate main or sub main control switch (M.C.U) box type i/c providing i/c phase indication with holder and providing internal electric wiring for main swith 2-39/2.14(19)0.83 PVC insulate wire 60 volts grae in 50.8 mm (2") PVC conduit on surface as required i/c providing and fixing earthing set with 0.6mx0.6mmx6.3M) 92'x2'x1 1/2") copper plate burried in the ground as depth 3.7 m (12') as per Pak PWD Spefication and testing pumping set against the required head of 72 hours etc, complete. (R.A approved). (as per existing Pumping Machinery).

1.00 Set

@Rs 217000.00

P. Set

Rs. 217000

- 2 Rewinding of A.C electric motor 3 phase 7.50 BHP 4 pole 1450 RPM i/c change of ball bearing and testing for 72 hours also i/c dismantalling and refixing at the site of work etc, complete. (GSI NO: 970/P-NO: 110)

1.00 No.

@Rs 10599.00

P. Set

Rs. 10599

- ③ Repair of Golden sullage pump 4"x3". (Approved rate)

1.00 No.

@Rs 7600.00

P. Set

Rs. 7600

- 4 Providing P.E pipe of approved quality to be tested pressure 200'. (PHSI NO.01 P-05)

27.00 rft

@Rs 268.00

P.rft

Rs. 7236

- 5 Supplying blank flanges. (PHSI NO.12 P-17)

8.00 Nos.

@Rs 437.50

P. Set

Rs. 3500

6	G.I Pipe 4" dia. 12.00 rft	@Rs 431.93	P.rft	Rs. 5183
7	Supply C.I sluice valve heavy pattern test pressure 21.0 k.g/cm 4" dia	1.00 No	@Rs 5460.00	P.Each Rs. 5460
8	Reflex valve heavy pattern test pressure 21.0 k.g/cm or 300 lbs/sq inch(Improved)(PHSI NO.2 P-10)	2.00 Nos	@Rs 1760.25	P.Each Rs. 3521
9	Butl fusion joints 4" dia. (PHSMI #.16; P-11)	4.00 Nos	@Rs 1000.00	P.Each Rs. 4000
10	Flanges Adopter 4" dia. <u>(M.R)</u>	4.00 Nos	@Rs 1215.00	P.Each Rs. 4860
12	Providing & fixing MCO oil starter MEECO made. <u>(Approved rate)</u>	1.00 No	@Rs 27800.00	P.Each Rs. 27800
13	Proiding and laying(Main or sub-main) PVC insulatd with size 4-7/044(6mm2)copper conductor 1.1/2"dia PVC conduit on surface.(Elec:Sch: Item-I-34 p-5)	39.00 Meter	@Rs 656.00	P.Meter Rs. 25584
14	Jointing C.I / M.S flanges. 4" dia.	8.00 Nos	@Rs 513.00	P.Each Rs. 4104
			Total	Rs. 326339

Part " C " P.E PIPE RISING MAIN 4"DIA.

01.Excavation for pipe line in trenches i/c pits in soft soil or mud plaster i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting, joints holes & disposal of surplus earth within one chain or as directed by Engineer Incharge i/c providing fence guards light flanges and temporary crossing for non vehicular traffic where ever required lift upto 5' and lead upto one chain.

(PHSINO.1, P.46).

4"dia. ✓

2800.00 cft. ✓

@Rs:3600/- ✓

P.%0 Cft. ✓

Rs: 10,080/- ✓

02.Providing laying & fixing in trenches i/c fitting testing of rings i/c testing etc complete in all respect the light Density Polyethylene P.E pipe (HDDE/100) for w/s conforming IS 442 DHX 8014/8095. (PHSI:No:01 P/25).

4"dia. ✓

400.0 rft. ✓

@Rs:224/- ✓

P.rft. ✓

Rs:89600/- ✓

03. Supply Elbow 90° pressure pipes. (SMINO.02, P.107)

4"dia. ✓

1.00 No. ✓

@Rs:1655/- ✓

P.Each. ✓

Rs:1655/- ✓

05.Providing and fixing tee (Equal)

4"dia. ✓

1.00 No. ✓

@Rs:1986/- ✓

P.Each. ✓

Rs: 1986/- ✓

06. Butl fusion joints.(SMI 1 NO.1 P-114)

4"dia. ✓

3.0 Joint. ✓

@Rs: 1000/- ✓

P.Joints. ✓

Rs:3000/- ✓

07. Refilling the excavated struff in trenches 6" thick layers for leveling dressing i/c watering ramming to full compaction etc complete (PHSINO.24, P.53).
90% excavation stuff to be refilled only.

2520.00 Cft. ✓

@Rs:2760/- ✓

P.%0 Cft. ✓

Rs: 6955/- ✓

Total

Rs: 1,13,276/- ✓

Part "D" Construction of C.C Drain i/e Brick pavement.

	Excavation in foundation of building bridges and other structures			
1	i/c dag belling dressing refilling around the structures with excavated Earth watering ramming up to 5ft (b) in ordinary soil (G.S.I-18/ P/4)			
	2110.00 cft ✓	@Rs 3176.25 ✓	P%0Cft ✓	Rs 6702 ✓
	Cement concrete plain i/c placing compacting finishing			
2	and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:4:8 (G.S.I-5 P/17)			
	905.00 ✓ Cft	@Rs 11288.75 ✓	P%Cft ✓	Rs 102163 ✓
	Pacca brick work in foundation and plinth in cement sand mortar(1:6)			
3	(G.S.I No. 4 P/24)			
	8400.00 cft ✓	@Rs 11948.36 ✓	P%Cft ✓	Rs 1003662 ✓
	Construction of standared open type drains connuttee bloc 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 curringcomplete as per drawing design.(PHSI NO. D (i) P-58).			
4	Type-A 1000 ✓ rft @Rs 94.00 ✓ p.rft ✓ Rs 94000 ✓			
	Type-B 400 ✓ rft	@Rs 174.00 ✓	p.rft ✓	Rs 69600 ✓
5	Cement plaster (1:4) up to 20'height 1/2"thick (G.S.I-11/ P/57)			
	26700.00 Sft ✓	@Rs 2283.93 ✓	P%Sft ✓	Rs 609809 ✓
	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. (G.S.I-6 P/17)			
6	361.50 ✓ Cft	@Rs 337 ✓	P-Cft ✓	Rs 121826 ✓
	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-7 (ii) (a) P/19)			
7	12.91 ✓ Cwt	@Rs 5001.70 ✓	P-Cwt ✓	Rs 64572 ✓
	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:2:4 (G.S.I-5 P/17)			
8	226.78 ✓ Cft	@Rs. 14429.25 ✓	P%Cft ✓	Rs 32723 ✓
	Dry brick work on edge paving sand grouted i/c preparation of bed by watering ramming nd bringing the same to proper camber 1/2"thick mud plaster.(CSI NO.5 P-16)			
9	900.00 ✓ Sft	@Rs. 3823.57 ✓	P% Sft ✓	Rs. 34412 ✓

21,39,469/-

Abstract of Cost.

S.#.	Name of Work	Schedule Item	Non-Sch:Item	Amount
Paart-I	Repair /Renovation of Disposal Works.	444899.00 ✓	--	444899.00 ✓
Paart-II	Repair /Renovation & New Electric	69079.00 ✓	257260.00 ✓	326339.00 ✓
Paart-II	P.E Pipe Rising Main 4" dia.	113276.00 ✓	--	113276.00 ✓
Paart-IV	Const: of C.C Drains.	2139469.00 ✓	--	2139469.00 ✓
	One year O/M Cost.	--	424000.00 ✓	424000.00 ✓
	Total	2766723.00 ✓	681260.00 ✓	3447983.00 ✓

BILL OF QUANTITIES

(A) Reheblition of Rural Drainage Scheme Sidique Abad Taluka
Bakrani Distruct larkano
(Under Reheblition Promme)

S.#	Qty	Description and rate of Item to be executed at site	Rate	Unit	Amount
1		Dismantelling of C.C Plain 1:2:4 (CSI # 19c P-10)			
	76.94 cft	@Rs 3327.50	P%0Cft		Rs 2560.0
2		Dismantelling Brick work in lime or cement mortar (CSI # 13c P-10)			
	75.00 Cft	@Rs 1285.63	P%Cft		Rs 964
3		Dismantelling of R.C.C work (CSI # 13c P-10)			
	108.40 cft	@Rs 5445.00	P%Cft		Rs 5902
4		Earth work excavation in ashes sand soft soil or silt clearance lead upto one chain in ordinary soil (GSI # 2 P1)			
	9095.42 cft	@Rs 1663.75	P%cft		Rs 15133
5		Extra for wet earth work (CSI NO: 03. P/01)			
	9095.42 cft	@Rs 1058.75	P%cft		Rs 9630
6		Extra for , every 50 ft additional (a/. Part there of (GSI No: 8 P.No 37)			
	9095.42 cft	@Rs 403.12	P%0 Cft		Rs 3667
7		Excavation in foundation of bulding bridges and other and other structures i/c dag being dressig fefilng around around the structure (GSI -18 (b P/4			
	14895.0 cft	@Rs 3176.25	P%0 Cft		Rs 47310
8		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 (G.S.I-5(a) P-16)			
	5085.0 cft	@Rs 11288.75	P% Cft		Rs 574033
9		Pacca brick work in fundation and planth in cement sand mortar (1:6) (GSI NO 4 (A) P-21			
	20231.25 cft	@Rs 11948.36	P% Cft		Rs 2417303

10 Construction of standard open type drain concrete block of C.C 1:2:4 cost of site to the design profiles i.e. cost of mould as per drawing i/c supplying floating cost of cement

Type-A	4500 Rft ✓	@Rs 94.00 ✓	P-Rft ✓	Rs 423000 ✓
Type-B	3150 Rft ✓	@Rs 174.00 ✓	P-Rft ✓	Rs 548100 ✓

11 Cement Plaster (1:4) up to 20 height 1/2 thick (GSI-11(b)/ P/52

42125.00 ✓	Cft	@Rs 2283.93 ✓	P% Sft ✓	Rs 962106 ✓
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12 Cement concrete plain i/c: placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:2:4 (G.S.I-5(a) P/16)

404.05 ✓	Cft	@Rs. 14429.25 ✓	P% Cft ✓	Rs 58301 ✓
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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

13 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(a) P/17)

321.88 ✓	Cft	@Rs 337.00 ✓	P-Cft ✓	Rs 108474 ✓
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14 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(a) P/17)

11.49 ✓	Cwt	@Rs 5001.70 ✓	P-Cwt ✓	Rs 57470 ✓
			Total	Rs 5233953 ✓✓

Abstract of Cost

S.#	Sub-Works	Schedul Amount	Non Schedul Amount	G. Total
1	C.C Drains	5233953 ✓	-	5233953 ✓
	One Year O/M Cost	-	424000 ✓	424000 ✓
	Total	5233953 ✓	424000 ✓	5657953 ✓✓

BILL OF QUANTITIES

(A)

**Rehabilitation of Rural Drainage Scheme Pathan Taluka
Bakrani District Larkano
(Under Rehabilitation Program)**

S.#	Qty	Description and rate of Item to be executive at site	Rate	Unit	Amount
PART- "A" REPAIR / RENOVATION OF DISPOSAL WORKS					
1		Cleaning of collecting Tank / Sump Well below ground level i/c: de-watering of sullage water & disposal of garbage & solid waste etc out side of the tank etc complet. (PHSI #.T-1 P-59)			
	1396.37 ✓	cft	@Rs 11900.00 ✓	P%0 Cft	Rs. 16617 ✓
2		Earth work excavation in ashes, sand, soft soil or silt clearance lead upto one Coat in ordinary soil. (GSI #.2 P-1)			
	2855.64 ✓	cft	@Rs 1663.75 ✓	P%0 Cft	Rs. 4751 ✓
3		Extra for wet earth work.(CSI NO.3 P-01)			
	2855.64 ✓	cft	@Rs 1058.75 ✓	P%0 Cft	Rs. 3023 ✓
4		Extra for every 50' additional lead or part there of(CSI NO.03 P-01)			
	2855.60 ✓	Cft	@Rs. 403.12 ✓	P.%0Cft ✓	Rs. 1151 ✓
5		Dismantalling brick work in line or cement mortor.(GSI NO.13 P-10). Damage jportrion of compound wall.			
	276.50 ✓	Cft	@Rs. 1285.63 ✓	P.%Cft	Rs. 3555 ✓
6		Pacca brick work in foundation and plinth in cement sand mortor. ratio 1:6.(CSI NO.4 P-25).			
	378.00 ✓	Cft	@Rs. 12346.65 ✓	P.% Cft ✓	Rs. 46670 ✓
7		C.C plain i/c placing,compacting,finishing curring etc, complete and washing of stone aggregate w/o shuttering Ratio 1:2:4. (CSI O.5 P-17).			
	89.50 ✓	Cft	@Rs. 14429.25 ✓	P.% Cft ✓	Rs. 12914 ✓
8		Dismetalling of RCC works.(CSI NO.3 P No-10)			
	87.88 ✓	Cft	@Rs. 5445.00 ✓	P.% Cft ✓	Rs. 4785 ✓
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 1/4" gauge. (G.S.I-6(a) P/17)			
	43.50 ✓	Cft	@Rs 337.00 ✓	P.Cft ✓	Rs. 14660 ✓
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. (G.S.I-8(a) P/17)			
	1.74 ✓	Cwt	@Rs 5001.70 ✓	P.Cwt ✓	Rs. 8703 ✓

11	Cement Plaster (1:4) up to 20' height ½" thick (G.S.I-11(b)/ P/52)	2400.00 ✓	Cft	@Rs. 2283.93 ✓	P.% Cft ✓	Rs. 54814.00 ✓
12	Small iron work such as guest plate knees. Strips rings etc,i/c cutting,drilling, reverting handling assembling and fixing but excluding erection in poition (CSI No. 1 p -90)	4.24 ✓	cwt	@Rs. 6420.61 ✓	P.Sft ✓	Rs. 27223 ✓
13	White wash 2 coats. (GSI #.26, P-53)	4046.00 ✓	Sft	@Rs 425.84 ✓	P.% Sft ✓	Rs. 17229 ✓
14	Colour washing 2 coats. (GSI #.25, P-53)	4548.50 ✓	Sft	@Rs 859.90 ✓	P.% Sft ✓	Rs. 39113 ✓
15	Preparing painting of old surface pinting door and windows of any type i/c edges.(CSINO.4 (C) P-67)	239.00 ✓	Sft	@Rs 1160.06 ✓	P.% Sft ✓	Rs. 2773 ✓
					Total	Rs. 257981 ✓

Part " B" Repair & Construction of C.C Drains

1	Earth work excavation in ashes sand soft soil or silt clearance lead upto one chain in ordinary soil (GSI # 2 P1)	5841.65 ✓	cft	@Rs 1663.75 ✓	P.% cft ✓	Rs. 9719 ✓
2	Extra for wet earth work (CSI NO): 03. P/01)	5841.65 ✓	cft	@Rs 1058.75 ✓	P%0cft ✓	Rs 6185.0 ✓
3	Extra for every 50 ft additional lead or part there of	5841.65 ✓	cft	@Rs 403.12 ✓	P%0cft ✓	Rs 2354.0 ✓
4	Excavation in foundation of bulding bridges and other and other structures i/c dag beling dressig fefiilng around around the structure (GSI -18 (b P/4	7230.0 ✓	cft	@Rs 3176.25 ✓	P%0 Cft ✓	Rs 22964 ✓
5	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 (G.S.I-5(a) P-16)	3015.0 ✓	cft	@Rs 11288.75 ✓	P% Cft ✓	Rs 340356 ✓
6	Construction of standared open type drain connuttee block of C.C 1;2:4 cost ofs the design profiles i.e cost of mould as per drawing i/c supplying floating cost o	Type-A 3000.0 ✓	Rft	@Rs 94.00 ✓	P-Rft ✓	Rs 282000 ✓
		Type-B 1600.0 ✓	Rft	@Rs 174.00 ✓	P-Rft ✓	Rs 278400 ✓
7	Pacca brick work in fundation and planth in cement sand mortar (1:6) (GSI NO 4 (A) P-21	11025.00 ✓	cft	@Rs 11948.36 ✓	P% Cft ✓	Rs 1317307 ✓

8	Cement Plaster (1:4) up to 20 height 1/2 thick (GSI-11(b)/ P/52	20850.00 / cft	@Rs 2283.93 /	P% sft	Rs 476199 /
	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				
9	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. (1) Ratio 1:2:4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to 1/4" gauge. (G.S.I-6(a) P/17)	422.00 / cft	@Rs 337.00 /	P-Cft	Rs 142214 /
	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(a) P/17)				
10		15.07 / Cwt	@Rs 5001.70 /	P-Cwt	Rs 75376 /
12	Dismantling of CC Plain 124 (GSI NO 13 P-10)	61.99 / Cft	@Rs 3327.50 /	P% Cft	Rs 2063 /
13	Cement concrete plain i/c: placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:2:4 (G.S.I-5(a) P/16)	278.52 / Cft	@Rs. 14429.25 /	P%Cft	Rs 40188 /
				Total	Rs 2995325 /

PART-"C".P.E Pipe Rising Main 4"dia.

1	Excavation for pipe line in trenches i/c pits in soft soil or mud plaster trimming and dressing sides to true alignment and shape levelling of trenches to correct level and grade cutting, joints holes & disposal of earth within one chain or as directed by Engineer, incharge i/c guard light flanges and temporary crossing for non vehicular required lift upto 5' and lead upto one chain.(PHSI NO.1 P-46). <u>For 4"dia.</u>	6000.00 / cft	@Rs 3600.00 /	P%0cft	Rs. 21600.0 /
	Providing laying & Fixing P.E Tranches i/c fitting jointing & Testing etc Complete in all respect the high Density polyethylene P.E pipe (PHSI NO.1 P No-25).				
2		1000.00 / Elbow	@Rs 224.00 /	P% cft	Rs. 224000.0 /
3	Supplying and fixing Elbow pressure pipe.(SMI NO.02 P-107).	2.00 / Nos	@Rs 1324.00 /	P.each	Rs. 2648.0 /
4	Refilling the excavated stuff in trenches 6"thick layers for levelling and dressing ji/c watering ramming to full completion etc..(PHSI NO.24 P-53).	5400.00 / cft	@Rs 2760.00 /	P%0cft	Rs. 14904 /
5	Bult Fusion joint 2 joint (CSI No:D-P-No:22)	2.00 / Joint	@Rs 1000.00 /	P. Joint	Rs. 2000 /
				Total	Rs. 265152.0 /

PART-"D". Repair of P/Machinery & New Pumping set

A.C Electric Pumping Set 10 BHP

- 1 Supplying & installing in position i/c transportation to site of work at Disposal work at villaage Belhreji A.C electric pmping set consisting of A.C electric motor of (Siemens) made 10 BHP 3 phase 50 cycles 400-420 volts of 1450 RPM (Siemens made) type (ILA-7-130-4 AA-60)frame 132 M coupled with NICE non-clogging pump type (Golden) size 4"x3" mounted on common steel frame on base jplate acapable of discharging 140 GPM against the required head of 40 feet u/c ubstakkubg ib C.C Ratio 1:2:4 M.S nuts & bolts of 5/8" dia to be embedded in C.C foundationproviding & fixing automatic sstar delta starter type Golden made proviiding and fixing on prepared board iron lad triple pole and neutral switch fuse with rewireable type fuse lind i/c 500 volts grade 30 mps: and ampere meter 0-200 amp: i/c providing and fixing volt meter 0-500 volts installed board i/c providing fixing metallated board to accommodate main or sub main control switch (M.C.U) box type i/c providingi/c phase indication with holder and providing internal electric wiring for main swith 2-39/2.14(19)0.83 PVC insulate wire 60 volts grae in 50.8 mm (2") PVC conduit on surface as required i/c providing and fixing earthing set with 0.6mx0.6mmx6.3M) 92'x2'x1 1/2") copper plate burried in the ground as depth 3.7 m (12') as per Pak PWD Spfecication and testing pumping setagainst the required head of 72 hours etc, complete. (R.A approved). (as per existing Pumping Machinery).
- | | | | | |
|-----|------|---------------|--------|------------|
| 1.0 | Sets | @Rs 217000.00 | P. Set | Rs. 217000 |
|-----|------|---------------|--------|------------|
- 2 Rewinding of A.C electric motor 3 phase 7.50 BHP 4 pole 1450 RPM i/c change of ball bearing and testing for 72 hours also i/c dismentalling and refixing at the site of work etc, complete. (CSI No: 97 (C) P-No:110)
- | | | | | |
|-----|-----|--------------|--------|-----------|
| 1.0 | Nos | @Rs 10599.00 | P. Set | Rs. 10599 |
|-----|-----|--------------|--------|-----------|
- 3 Providing,laying and fixing in trenches ji/c fitting jointing and teting etc, complete in all respects the height directly polythylene P.E pipe (HDPE-100) (PHSI NO.1 P-25)
- | | | | | |
|-------|-----|------------|-------|-----------|
| 52.00 | rft | @Rs 268.00 | p.rft | Rs. 13936 |
|-------|-----|------------|-------|-----------|
- 4 Supply C.I sluice valve heavy patern test pressure 21.0 k.g/cm or 200 lbs/sq inch(Improved)(PHSI NO.2 P-10)
- | | | | | |
|------|-----|-------------|--------|-----------|
| 2.00 | Nos | @Rs 5460.00 | P.Each | Rs. 10920 |
|------|-----|-------------|--------|-----------|
- 5 Reflex valve heavy pattern rest pressure 21 kg/sq. cm or 300 lbs/sq. inch. (PHSMI #.16, P-11)
- | | | | | |
|------|-----|-------------|--------|----------|
| 2.00 | Nos | @Rs 1706.25 | P.Each | Rs. 3413 |
|------|-----|-------------|--------|----------|
- 6 Bult fusion in joints 4" dia 10 Nos: (PHS of (Material Item No it P.No: 20)
- | | | | | |
|-------|-----|-------------|--------|-----------|
| 10.00 | Nos | @Rs 1000.00 | P.Each | Rs. 10000 |
|-------|-----|-------------|--------|-----------|
- 7 Providing & fixing automatic star delta starter Taiwanmade(M.C U) N.S (M.R)
- | | | | | |
|------|-----|--------------|--------|-----------|
| 1.00 | Nos | @Rs 27800.00 | P.Fach | Rs. 27800 |
|------|-----|--------------|--------|-----------|

8	Flange Adopter 4" dia (M.R)			
	10.00 Nos	@Rs 1215.00	P.Each	Rs. 12150
9	Supplying G.I pipe 4" dia (Medium) 16 Size			
	16.00 rft	@Rs 431.93	p.rft	Rs. 6911
10	Supplying & fixing M.S flange 4" Ø			
	8.00 Nos	@Rs 596.25	P.Each	Rs. 4774.0
11	Jointing C.I/M.S flanged and specials pipes and inside trenches i/c: supplying of the rubber packing of the required thickness nuts bolts and washers etc and tools required for jointing and testing the joins in the specifies pressure etc c (PHSI #.1, P-40) 4" dia			
	16.00 Nos	@Rs 513.00	P.Each	Rs. 8208
12	Providing and laying (Main or Sub-Main)PVC insulatyed with size 4-7/044(6mm2)copper conductor 1.1/2"dia PVC' conduit of surface.(Elec:Sch:Item No.34 p-5).			
	30.00 Meter	@Rs 566.00	P.Each	Rs. 16980.0
			Total	Rs. 342691

PART-"E": Repair of Transformer 25 KVA.

1	Supply and installing coil for 25 KVA Transformer (M.R)			
	H.T 3.00 Coils	@Rs 15000.00	P.Each	Rs. 45000
	L.T 3.00 Coils	@Rs 8000.00	P.Each	Rs. 24000
2	Supplying oil for transfomer (M.R)			
	80.00 Leters	@Rs 180.00	P.Liter	Rs. 14400
3	Labour Charges (M.R)			
	1.00 Nos	@Rs 5000.00	P.Each	Rs. 5000
			Total	Rs. 88400

ABSTRACT OF COST

S.#	Sub - Works		Schedul Amount	Schedule Amount	G.Total
1	PART-A	Repair & Renovation of Disposal Work	257981.00	-	257981.00
2	PART-B	Repair & Construction of C.C drain	2995325.00	-	2995325.00
3	PART-C	P-E pipe Rsing Main	265152.00	-	265152.00
4	PART-D	Repair of P/ Machinery & New P-	85741.00	256950	342691.00
5	PART-E	Repair of Transformer		88400	88400.00
6	One Year O/M Cost		-	424000	424000.00
	Total		3604199.00	769350	4373549.00

BILL OF QUANTITIES

(A) **Rehabilitation of Drainage Scheme Masu Hab Taluka
Larkano
Under Rehabilitation Program**

Item #	Quantities	Description and rate of Item to be executed at site	Rate	Unit	Amount
1	2	3	4	5	6

PART-I REPAIR OF C.C DRAINS

1	Pacca brick work in foundation in cement sand mortar(1:6) (G.S.I No. 4 P/ 20)	2922.00 Cft	@Rs 11948.36	P%Cft	Rs 349131
2	Cement plaster (1:4) up to 20' height ½" thick (G.S.I-11/ P/51)	9150.00 Sft	@Rs 2283.93	P%Sft	Rs 208980
3	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:2:4 (G.S.I-5 P/15)	309.80 Cft	@Rs. 14429.25	P%Cft	Rs 44702
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. (t) Ratio 1;2;4 90 lbs cement 2 cft sand 4 cft shingle 1/8" to ¼" gauge. (G.S.I-69 P/16)	150.00 Cft	@Rs 337.00	P-Cft	Rs 50550
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. (G.S.I-8 P/16)	6.02 Cwt	@Rs 5001.70	P-Cwt	Rs 30110

Total: Rs 683473

PART-II BRICK PAVEMENT

1	Barrow pit excavation undressed lead upto 100 ft ordinary soil (G.S.I. No. 3(a) P-1)	29328.79 Cft	@Rs 2117.50	P.%0 Cft	Rs. 62104
2	Earth work compaction (Soft, ordinary or hard soil) Laying earth in 6" thick layers levelling and dressing etc completed. (G.S.I.No. 13(a) P-3)	29328.79 Cft	@Rs 263.00	P.%0 Cft	Rs. 7713
3	Extra lead for every 50' Ft: additional lead or part thereof. (GSI #.8(a) P-2)	29328.79 Cft	@Rs 5039.00	P.%0 Cft	Rs. 147788

- 5 Dry brick work on edge paving sand grouted i/c preparation of beds watering ramming the same proper camber 1/2" thick mud plaster (GSI NO. 5P- 33)

5550.00 Cft @Rs 3823.57 P.% Cft Rs. 212208

Total :- Rs. 429813

PART-III REPAIR OF DISPOSAL WORK & CLEANING OF C.C DRAINS

- 1 Pacca brick work in ground floor in cement sand mortar(1:6) (G.S.I No. 4 P/ 20)

315.09 Cft @Rs 12674.36 P% Cft Rs 39936

- 2 Cement plaster (1:4) up to 20' height 1/2" thick (G.S.I-11/ P/51)

2333.31 Sft @Rs 2283.93 P%Sft Rs 53291

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

- 3 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. (1) Ratio 1;2;4 90 lbs cement 2 cft sand 4' cft shingle 1/8" to 1/4" gauge.

(G.S.I-69 P/16)

141.53 Cft @Rs 337.00 P-Cft Rs 47696

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.

- 4 (G.S.I-8 P/16)

5.69 Cwt @Rs 5001.70 P-Cwt Rs 28460

- 5 Providing laying C.C topping 3" thick CC 1:2:4 i/c surface finishing and dividing into pannels (CSI NO.16P- 41)

238.00 Cft @Rs 4411.82 P% sft Rs 10500

- 6 White washing of two coats (CSI NO.26P- 53)

5922.08 Cft @Rs 425.84 P% sft Rs 25219

- 7) Colour Washing of two coats (CSI NO .25P- 53)

5771.45 Cft @Rs 859.90 P% sft Rs 49629

- 8 Small iron work such as gusset plat knees bends stirrups straps rings etc i/c cutting drilling refitting handling excluding erection in position (G.S.I -1 P- 90)

7.32 cwt @Rs 6420.61 P. cwt Rs 46999

- 9 Earth work excavation in ashes sand soft soil or silt clearance (CSI NO.2P-1)

7654.71 sft @Rs 1663.75 P.% cft Rs 12736

- 10) Cleaning of Collecting tank and sump below ground level i/c dewatering of sullage water and disposal of garbage solid waste out site of tank etc completed (CSI NO.1P- 59)

1219.75 sft @Rs 11900.00 P.% cft Rs 14515

- 11) Extra for every 50 ft: additional lead or part there of (CSI NO.8(a) P-02)

7654.71 sft @Rs 403.12 P.% cft Rs 3086

12 Providing & fixing cement ornamental Jali 2"thick (1:2:4) without steel
(CSI NO.11P- 17)

Qty 60.00 sft @Rs 226.02 P.sft Rs 13563

13 Preparation surface and painting of doors & windows i/c edge etc complete
(CSI NO.5 P- 68)

Qty 213.50 sft @Rs 1489.68 P.%sft Rs 3180
Total: Rs 348810

PART-IV P.E PIPE RISING MAIN

1 Excavation for pipe line entrenches and pits in soft soils i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer incharge providing fence guards lights flags and temporary crossing for non vehicular traffic where were required lift upto 5ft and lead upto one chain.(P.H.S.I-1, P-60).

8400.00 Cft @Rs 3600.0 P%0Cft Rs 30240

2 Providing laying & fixing in trench i/c fitting jointing and testing etc:
complete in all respect the high density polythylene PE pipes
(HDPE-100) for W/S confirming ISO 4427/DIN8074/8075
B.S 3580 & PSI 3051. (P.H.S.I-1, P-25). PN 08.

6"dia 1200.0 @Rs 440.0 P.rft Rs: 528000

3 HDPE (PE 100) fitting (PHS of mat Item No.1 P-18)

Elbow / bend 90o (160 mm)

6"dia 2.0 Nos @Rs 3480.00 P.No Rs: 6960

4 But fusion joints (PHSI No.1-11 P-20)
(160 mm)

6"dia 4.0 Nos @Rs 1000.00 P.No Rs: 4000

5 Providing and instaling M.S pipe 3/16"thick of best and approved quality
6"dia pipe

6"dia 26 Rft @Rs 749.34 P/Rft Rs: 19483

6 C.I bend with flanged ends with holes i/c turning and facing
of flanges for all sizes etc completed (PHSI NO. 8P- 12)

6"dia 0.73 cwt @Rs 6096.0 P.cwt Rs: 4458

7 Supplying M.S flanges (SR I NO.12P- 17)

4.00 Nos @Rs 804.77 P/Rft Rs: 3219

8 Making joints C.I M.S flanged pipes and specials (PHSI No.1P-40)

Qty 4 Nos @Rs 938.0 P.Jt Rs: 3752

9 Supplying flange adopter (M.R)

Qty 6"dia 4 Nos @Rs 2025.0 P.Each Rs: 8100

10 Refilling the excavated stuff in trenches 6" thick Layer i/c watering ramming to
full compaction etc complete (P.H.S- 1-24 P-77)

7560.00 Cft @Rs: 2760.00 P%0Cft Rs: 20866
Total: Rs 629078

- i) Supplying installing in position i/c transportation at site of work Electric pumping set 10 BHP (Siemens made) frame size 160-L - 4 pole 1500 RPM totally enclosed fan cooled squirrel cage induction motors 3 phase 400 VAC 5% Hz 2% suitable for VFD operation Ambient Temperature 40 C Altitude 1000 m above sea level Construction IM B3 (foot mounted) degree of protection IP 65 insulation class F service factor 1.1 coupled with GSWG-105 non clogging sillage pump type GSWG 105 size 6"x6" mounted on KSB steel frame / coupling with sleeve capable of giving discharge 255 GPM against the required head 40 ft, i/c installed on c.c foundation ration 1:2:4 with MS nuts & bolts of 5/8" dia to be embedded in c.c foundation, supplying and fixing Automatic Motor control unit (MCU) consist Oil start (MEECO Pakistan) MCCB Breaker 10-A to 50-A (Shihlin Taiwan) cutout 60-A (China) Amp: Meter (60/5A) (SELCO China) volt meter (500-V) (SELCO China) phase Indication light (China) include Transformer oil (2-Liter) panel board 18"x26"x9" and internal wiring etc: complete Providing and laying (Main or sub main) PVC insulated with size 4-7/.052 (10mm²) copper conductor in 1-1/2" dia PVC conduit on surface P/F earthing set with 2'x2'x1/2" copper plate buried in ground at a depth of 12" or less if water common out from the ground level without and charcoal etc: i/c making the pipe 12" deep by excavation of all type of soil earth plain to be connected with c.c bars comper with own in 1/2" G.I pipe strength from the earth plate. i/c earth work in the ground at depth as per Pak: PWD specification and testing the pumping set against the required head and discharge of 72 hours etc: complete.

1 set

@Rs: 256000 P.Set Rs: 256000

ii) **Diesel Enginer 16 BHP**

Providing & installing in position i/c transporation to site of work at Drainage Sch: Masu Hab Taluka Larkano Diesel Engine pumping set consisting of Diesel Oil engine of 16 BHP fixed in handle starter 1470 RPM i/c all acc essories coupled with Golden Non Clogging pump type GSWG -105 NSP-75 size 6"x5" mounted on common steel frame or base plate and C.I coupling i/c coupling charges capable of discharging 180 galons per minute against a head of 40' i/c installing of pumping set on c.c foundation 1:2:4 and c.c 1:4:8 with ballast with nuts and bolts of 5/8" dia to be emedded in c.c foundation i/c testing of the pumping set for 72 hours under actual

1 set

@Rs: 232000 P.Set Rs: 232000

G.Total: Rs: 488000**b) INTER CONNECTION**

- 1 Providing laying and fixing in trenches i/c fitting jointing and testing etc: complete in all respect the high Density polythylene PE pipes (HDPE-100) for W/S confirming ISO 4427/DIN (PHSI No.1 P-25)

36 Rft 6" dia

@Rs: 530

P.rft Rs: 19080

- 2 C.I Bend with flange end with holes i/c turning and facing of flanges for all sizes. (P.H.S (M) I. No 8 P/ 12) Suction 6" dia 90 Degree

1.82 cwt

@Rs: 6096

P.cwt Rs: 11095

- 3 C.I Tee with flange end with holes i/c turning and facing of flanges for all sizes. (P.H.S (M) I. No 8 P/ 12)
0.58 cwt @Rs: 6096 P.cwt Rs: 3536
- ④ 4 Supplying & Instalng M.S pipe made out of M.S sheet 3/16" i/c folding to correct curvture shpe ic welding etc completed
16 Rft @Rs: 749.34 P.rft Rs: 11990
- 5 Providing and fixing M.S flange made of M.S plate having a thickness and total weight as mentioned against each item
It includes the cost of making holes facing welding nuts bolts rubber paking white lead fitter cartage etc: complete.
(P.H.S I. No 8 P/ 88) 1/2" thick M.S Plate
6" dia
17 Nos: @Rs: 1520.00 Each Rs: 25840
- 6 C.I sluice valve heavy pattern test pressure 21 kg /sq. cm or 300 lbs /sq inch (P.H.S (M) I No 16 P/ 11)
6" dia 2 Nos: @Rs: 9360.00 Each Rs: 18720
- 7 Reflex valve heavy pattern test pressure 21 kg /sq, cm or 300 lbs /sq inch (P.H.S (M) I No C P/ 11)
6" dia 2 Nos: @Rs: 4062.50 Each Rs: 8125
- 8 Foot valve heavy pattern with cone type gate imported (P.H.S (M) I No 4 P/ 11)
6" dia 2 Nos: @Rs: 1381.25 Each Rs: 2763
- 9 Butt Fusion joint (P.H.S.(M).I-11, P-20)
6" dia 16 Joints @Rs: 1000.00 P/joint Rs: 16000.
- ⑩ 10 Flange adaptor (Non Sch: Item)
6" dia 16 Joints @Rs: 2025.00 P/joint Rs: 32400
- 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 specified pressure etc complete (P.H.S I No 1 P/ 40)
6" dia 16 Joints @Rs: 938.00 P/joint Rs: 15008

G.Total: Rs 164557

PART-VI REPAIR OF TRANSFORMER (Non schedule 4 items)

- 1 Repair of Transformer i/c rewinding of Coils, bushes ,nuts etc completed
3 Job @Rs: 15000.00 P.Job Rs: 45000
- 2 Supplying oil for Transformer
80 litres @Rs: 180.00 P.ltr Rs: 14400

G.Total:

Rs: 59400

- Small iron work such as gusset plat knees bends stirrups straps
 13 rings etc i/c cutting drilling refitting handling excluding
 erection in position (G.S.I -1 P- 90)
 4.40 cwt @Rs 6420.61 P.cwt Rs: 28251
- 14 Erection and fitting in position of iron trusses staging of water tanks etc:
 (C.S.I.No. 3 P/ 91)
 4.40 / sft @Rs 271.04 P/sft Rs 1192
- 15 Supplying and fixing in position iron / steel grill of 3/4"x1/4" size flat iron of
 approved design i/c painting 3 coats etc: complete.
 (C.S.I. No.26 P/93)
 24.00 / Sft @Rs: 180.50 P/Sft Rs: 4332
- 16 **PAINTING NEW SURFACE**
 Preparing surface and painting of door and window any type i/c
 Edges 3 coats (G.S.I. No.5 P/69)
 104 / Sft @Rs 2116.41 P%Sft Rs: 2201
- 17 White washing of three coats (GSI NO.26 P- 53)
 174 / Sft @Rs 829.95 P%Sft Rs: 1444
- 18 White washing of one coat (GSI NO.26 P- 53)
 388 / Sft @Rs. 416.63 P%Sft Rs: 1617
- 19 Colour washing of two coats (GSI NO.25 P- 53)
 836 / Sft @Rs. 859.90 P%Sft Rs: 8025

Total:

Rs: 234183

Abstract of Cost

S.#	Sub- Works	Schedule Amount	N/Schedule Amount	G.Total:
1	Repair of C.C Drains	683473 /	0	683473 /
2	Brick Pavement	429813 /	0	429813 /
3	Repair of Disposal work & Cleaning of C.C Drains	348810 /	0	348810 /
4	P.E Pipe Rising main	620978 /	8100 /	629078 /
5	Pumping Machinery 10 BHP & Diesel Engine 16 BHP	0	488000 /	488000 /
6	Inter Connection	132157 /	32400 /	164557 /
7	Repair of Transformer	0	59400 /	59400 /
8	Pump House (10'x12')	234183 /	0	234183 /
	Operation Maintainance Cost	0	424000 /	424000 /
	G.Total:	2449414 /	1011900 /	3461314 /

General Abstract

S.#	Name of Scheme	Schedule Amount	N/Schedule Amount	G.Total:
1	Mandhra	3651648 ✓	257260 ✓	3908908 ✓
2	Seehar	3605044 ✓	0	3605044 ✓
3	Bellhreji	2341226 ✓	556780 ✓	2898006 ✓
4	Gund	2952453 ✓	0	2952453 ✓
5	Gujhar	2766723 ✓	257260 ✓	3023983 ✓
6	Siddique Abad	5233953 ✓	0	5233953 ✓
7	Pathan	3604199 ✓	345350 ✓	3949549 ✓
8	Masu Hab	2449414 ✓	587900 ✓	3037314 ✓
9	Operation Maintainance cost	0	3392000 ✓	3392000 ✓
	G.Total:	26604660 ✓	5396550 ✓	32001210 ✓

Amount Total (a)

----- % above /below on the rates CSR

Amount to be added /deducted on the
basis of premium quoted. TOTAL(b)

Total(A) = a+b in wods & figure:

CONTRACTOR

Executive Engineer
Public Health Engg:Division-I
Larkano