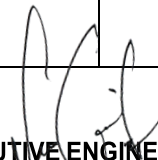


ANNUAL PROCUREMENT PLAN 2025-26.
IN RESPECT OF PUBLIC HEALTH ENGINEERING DIVISION TANDO ALLAHYAR

S.#	Description of Procurement	Quantity (Where Applicable)	Estimated Unit cost (Where Applicable)	Estimated Total Cost (In Million)	Funds Allocated (In Million)	Source of Funds (ADP/Non ADP)	Proposed procurement Method	Timing of procurement 2025-26				Remarks
								1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	
01	02	03	04	05	06	07	08	09	10	11	12	13
	NON-ADP SCHEME											
1.	Construction of Water Supply Scheme Base on (Slow Sand Filtration System), Drainages System I/C Paver Block N Solar Street Lights In Various Villages Of U,C Sanjar Chang U,C Landhi And Dariya Khan Mari District Tando Allahyar(Non –Adp)	N-A	763.492	763.492	206.750	Development	Single stage Two envelop			Yes		
	SUSTAINABLE DEVELOPMENT GOALS (SDG's)											
2.	Construction of Drainage Scheme and Providing & Installing Of Solar Powered R,O Plant At Village Jurial Shah Ji Mari District Tando Allayar(Sdg)	N-A	47.144	47.144	25.00	Development	Single stage Two envelop			Yes		
3.	Construction of Drainage Scheme Miyoon Yar Muhammad Tehbo / Wanhyaal Tehbo District Tando Allayar(Sdg)	N-A	46.988	46.988	25.00	Development	Single stage Two envelop			Yes		
4.	Construction Of Drainages Scheme Village Mithoo Mir Jat/ Ibrahim Shah District Tando Allayar(Sdg)	N-A	47.118	47.118	25.00	Development	Single stage Two envelop			Yes		
5.	Construction Of Drainages Scheme Village Ditto Kalroo District Tando Allayar(Sdg)	N-A	44.913	44.913	25.00	Development	Single stage Two envelop			Yes		
6.	Construction Of Drainages Scheme Village Allah Rakhya Pathan District Tando Allayar(Sdg)	N-A	47.77	47.77	25.00	Development	Single stage Two envelop			Yes		


EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG DIVISION
TANDO ALLAHYAR

Notification Procurement Committee



GOVERNMENT OF SINDH
PUBLIC HEALTH ENGINEERING &
RURAL DEVELOPMENT DEPARTMENT
Karachi dated the, 16th January, 2025

NOTIFICATION

No. SO(T)/PHE/SPP Rules/2010: In exercise of the powers conferred under Rule-7 of Sindh Public Procurement Rules-2010, the Procurement Committee of Procurement of Development and O&M works of Shaheed Benazirabad Region is hereby re-constituted as under:

- | | | |
|------|---|------------------|
| i. | Executive Engineer (Dev/O&M) | Chairman |
| ii. | Assistant Engineer, PHE (HQ) | Member/Secretary |
| iii. | Representative of Deputy Commissioner (Concerned) | Member |

Terms of reference/functions of the committee

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

(AIJAZ ALI SHAH)
Secretary to Govt. of Sindh

Cc:

1. The Managing Director, SPPRA, Govt. of Sindh, Karachi.
2. The Chief Engineer (Dev/O&M), PHED, Shaheed Benazirabad.
3. The Deputy Commissioner Concerned.
4. The PS to Special Assistant to Chief Minister Sindh, Govt. of Sindh, Karachi.
5. The Officer(s) Concerned.
6. The PS to Secretary, PHE & RDD, Govt. of Sindh, Karachi.

Shaherul


16/01/2025
SECTION OFFICER (TECH)/PHE
SECRETARY TO GOVT. OF SINDH

Representative of Deputy Commissioner Tando Allahyar



**OFFICE OF THE
DEPUTY COMMISSIONER**

Tando Allahyar dated: 17-01-2020

"SAY NO TO CORRUPTION"

The Section Officer (Technical) / PHE,
Public Health Engineering & Rural Development Department,
Government of Sindh, Karachi

Subject: **NOMINATION OF DEPUTY COMMISSIONER TANDO ALLAHYAR
(FROM LINE ENGINEERING DEPARTMENT) FOR PROCUREMENT
OF DEVELOPMENT AND O&M WORKS IN RESPECT OF PUBLIC
HEALTH ENGINEERING DIVISION (DEV / O&M)
TANDO ALLAHYAR**

Reference: Notification No.SO(T)/PHE/SPP Rules/2010 dated 13-07-2020 of Secretary
to Government of Sindh, Public Health Engineering & Rural Development
Department, Karachi

I am directed to refer above mentioned notification No., and to submit
that the Assistant Engineer, Highways Division, Tando Allahyar, is hereby nominated as
Nominee of Deputy Commissioner, Tando Allahyar for the Procurement Committee,
Procurement of Development and O&M Works in respect of Public Health
Engineering Divisions (Dev / O&M) Tando Allahyar.

(ABDUL HAFEEZ KAGHARI)
ADDITIONAL DEPUTY COMMISSIONER
FOR DEPUTY COMMISSIONER
TANDO ALLAHYAR

Cc to:-

- ♦ The Secretary to Government of Sindh, Public Health Engineering & Rural Development Department, Karachi
- ♦ The Commissioner, Hyderabad Division, Hyderabad
- ♦ The Managing Director, SPPRA, GOS, Karachi
- ♦ The Chief Engineer, PHED, Hyderabad
- ♦ The Superintending Engineer, W&S Department, Tando Allahyar
- ♦ The Superintending Engineer, Public Health Engineering Circle Mirpurkhas
- ♦ The Executive Engineer, PHE Division, Tando Allahyar
- ♦ The Executive Engineer, Highways Division, Tando Allahyar

Notification Complain Redressal



GOVERNMENT OF SINDH
PUBLIC HEALTH ENGINEERING &
RURAL DEVELOPMENT DEPARTMENT
Karachi dated the, 16th January, 2025

NOTIFICATION

No. SO(T)/PHE/SPPRA/2010: In exercise of powers conferred by Rule-67 of SPP Rules-2010 (Amended 2019) the Complaint Redressal Committee (CRC) for Development and Operation & Maintenance Works of Shaheed Benazirabad Region is constituted as under:

01	Chief Engineer (Dev/O&M) PHED Shaheed Benazirabad	Chairman
02	Representative of office of the Accountant General Sindh/District Accounts Officer (Concerned)	Member
03	An independent professional from relevant field to be nominated by Chief Engineer (Concerned)	Member

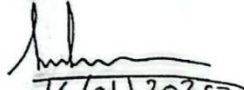
Terms of References

1. This committee shall act in accordance with SPPA Rules-2010 (Amended up to date).

(AIJAZ ALI SHAH)
SECRETARY TO GOVT. OF SINDH

Copy forwarded for information to:

1. The Managing Director SPPRA, Govt. of Sindh, Karachi.
2. The Accountant General Sindh Karachi/District Accounts Officer.
3. The Chief Engineer (Dev/O&M), PHED, Hyderabad.
4. The PS to Special Assistant to Chief Minister Sindh, Govt. of Sindh, Karachi.
5. The PS to Secretary, PHE & RDD, Govt. of Sindh, Karachi.


16/01/2025
SECTION OFFICER (TECH)/PHE
FOR SECRETARY TO GOVT. OF SINDH

NEWS



OFFICE OF THE EXECUTIVE ENGINEER PUBLIC HEALTH ENGINEERING (DEV) DIVISION TANDO ALLAHYAR

Address: COURT ROAD NEAR SHAH ABDUL LATIF PARK TANDO ALLAHYAR

No: TC/NIT/204/2026,

Dated: 09-03-2026

NOTICE INVITING TENDERS (THROUGH EPADS)

"Method of Procurement "Single Stage Two Envelop"

This office invites E-Bid through "E-Pak Acquisition and Disposal System (EPADS)" on website <http://portalsindh.eprocure.gov.pk/> for the following works from the interested Contractors/Firms/Companies, meeting the eligibility criteria/registered with Pakistan Engineering Council (PEC) in relevant category having valid renewal limit of category of following works:-

Sr. No:	Description	Estimated Cost Rs: (M)	Earnest Money 5% Rs: (M)	Tender Fee	Time for Completion	PEC Category
	NON-ADP SCHEME					
1	CONSTRUCTION OF WATER SUPPLY SCHEME BASE ON (SLOW SAND FILTRATION SYSTEM), DRAINAGES SYSTEM I/C PAVAR BLOCK N SOLAR STREET LIGHTS IN VARIOUS VILLAGES OF U.C SANJAR CHANG U.C LANDHIAN DARIYA KHAN MARI DISTRICT TANDO ALLAHYAR(NON-ADP)	763.492 M	38.175 M	5000	24-Months	C-2 & above
	SUSTAINABLE DEVELOPMENT GOALS (SDG's)					
2	CONSTRUCTION OF DRAINAGES SCHEME AND PROVIDING & INSTALLING OF SOLAR POWERED RO PLANT AT VILLAGE JURIAL SHAH II MARI DISTRICT TANDO ALLAHYAR(SDG)	47144 M	2.357 M	5000	18-Months	C-5 & above
3	CONSTRUCTION OF DRAINAGES SCHEME MIYON YAR MUHAMMAD TEHBO/ WANHYAL TEHBO DISTRICT TANDO ALLAHYAR (SDG)	46.988 M	2.349 M	5000	18-Months	C-5 & above
4	CONSTRUCTION OF DRAINAGES SCHEME VILLAGE MITHOO MIR JAT/ IBRAHIM SHAH DISTRICT TANDO ALLAHYAR(SDG)	47118 M	2.356M	5000	18-Months	C-5 & above
5	CONSTRUCTION OF DRAINAGES SCHEME VILLAGE DITTO KALROO DISTRICT TANDO ALLAHYAR(SDG)	44.913 M	2.246 M	5000	18-Months	C-5 & above
6	CONSTRUCTION OF DRAINAGES SCHEME VILLAGE ALLAH RAKHYO PATHAN DISTRICT TANDO ALLAHYAR(SDG)	4777 M	2.388 M	5000	18-Months	C-5 & above

HOW TO APPLY :-

- Bidding documents containing detailed terms and condition can be views and download from <http://portalsindh.eprocure.gov.pk/>.
- Bids shall be submitted electronically through the "EPADS" only. Manual submission will not be entertained.
- Interested bidders must ensure their registration on EPADS at <http://portalsindh.eprocure.gov.pk/>.
- The original instrument of tender Fee & bid security in the shape of call deposit/ pay order shall be delivered to the Procurement Agency on or before the deadline for submission of E-Bids.

PROGRAMME RECEIPT AND OPENING OF TENDERS

- Bidding document can be downloaded after hoisted on SPPRA EPADS Website upto dated 06-04-2026 at 02:30 P.M. Physical Bids will not be issued /accepted.
- Tenders will be received upto dated: 06-04-2026 at 02:30 P.M.
- The Bid Shall be open on the dated: 06-04-2026 at 03.00 P.M.

MANDATORY CONDITIONS :

- Each page of the Technical Proposal must be attested by the owner of firm/company along with its stamp.
- Bid Validity period 90 days.
- Conditional tenders will be rejected.

ELIGIBILITY CRITERIA :-

- Firm/Contractors must be registered with Pakistan Engineering Council (PEC Valid upto June-2026) in relevant category with specialization Code in CE-01, CE09, CE10, CE11, ME-07 EE-11 (vi) (General Electric works only) EE-11 (ii) & EE-11 (xvii) (Solar Energy/Works) are required as per supported by PEC valid registration certificate.
 - Experience in Similar Nature of works (S) Executed during last 5 years:**
 - At least one similar nature of work having minimum cost 80% of the estimate cost of the work; OR
 - At least two (02) similar nature works each having minimum cost 50% of the estimate cost.
 - Bio data of Engineering and Technical staff (Civil) working with the firm along with Attested CVs, which showing employment with firm.
 - Average annual financial turnover not less than equivalent cost of the Scheme / Project last five (05) years.
 - Registration with Income Tax Department (NTN Certificate should be attached) and Sindh Revenue Board (SRB Certificate should be attached) supported by copies of Income Tax return receipts of the last three (3) years. Must be active Tax Payer Status.
 - Litigation history in which the decision has been given against or in favor of the firm (s). List and give brief details of arbitration/litigation/ court cases if any in case of no such cases enclose an affidavit duly attested that the firm has not been involved in any litigation arbitration with any Government Departments.
 - Bank Account Statement in the name of the Bidders Firm for the last three (3) years must be submitted with the Technical Proposal.
 - Annual audit reports of last three years from (ICAP) registered audit firm. Audit report issued other than (ICAP) registered audit firms will not be accepted.
 - Affidavit on E-Stamp paper duly attested Rs: 500/- to the effect that the all documents / particulars / information furnished are true and correct, if any information found incorrect / misleading the Procuring Agency reserves the right to reject the bid.
 - An original and latest undertaking/ Affidavit on E-Stamp Paper duly attested Rs. 500/- that the Bidder and its firm have never been blacklisted by any Government, Semi Government, Autonomous or State-Owned Organization & their cases regarding blacklisting are not under trial by any Court of Law. De-listed firm will be allowed.
- Evaluation Criteria, sub-criteria, for the evaluation of Full Technical Proposals is based on Yes/No OR Pass/Fail; if a bidder fails to obtain yes or pass in any criteria or sub-criteria then he/she/it shall not be qualified.
- The Competent Authority reserves the right to reject any or all application as per SPPRA Rules 2010 (Amended-up-to-date).
- In case, Government announces any public Holiday on Scheduled dates, the tender will be opened on the next working day, as per usual schedule in accordance with Rule-41 (B) of SPPRA 2010 (Amended upto-date).

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: (DEV) DIVISION TANDO ALLAHYAR

INF-KRY/ 1033/26



**OFFICE OF THE EXECUTIVE ENGINEER
PUBLIC HEALTH ENGINEERING (DEV) DIVISION TANDO
ALLAHYAR**

Address: COURT ROAD NEAR SHAH ABDUL LATIF PARK TANDO ALLAHYAR

No: TC/NIT/ 204 /2026, Dated: 09-03-2026

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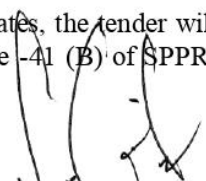
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EXECUTIVE ENGINEER
PUBLIC HEALTH ENGINEERING (DEV) DIVISION
TANDO ALLAHYAR

Copy F.W.C's for favor of information to:-

1. The Chief Engineer, Public Health Engineering (Dev:) Department Govt. of Sindh, Hyderabad.
2. The Superintending Engineer, Public Health Engineering (Dev:) Circle Hyderabad.
3. The Director information, Public Relation Department, Government of Sindh, Barrack # 96 Sindh Secretariat Karachi along with (7) seven Copies for publication in at least three languages leading newspapers.
4. The Director (A&F) Sindh Public Procurement Regulatory Authority (SPPRA) Government of Sindh Barrack No.08 Secretariat No.04-A, Court Road Karachi.
5. The Assistant Engineers, Public Health Engineering All Sub-Divisions Tando Allahyar.
6. The Procurement Committee Members.
7. The Complaint Redressal Committee Members.
Copy to Notice Board/Drawing Branch.

PUBLIC HEALTH ENGINEERING DIVISION TANDO ALLAHYAR

02

NAME OF WORK

CONTRUCTION OF WATER SUPPLY SCHEME BASE ON (SLOW SAND FILTRATION SYSTEM), DRAINAGES SYSTEM I/C PAVER BLOCK N SOLAR STREET LIGHTS IN VARIOUS VILLAGES OF U,C SANJAR CHANG U,C LANDHI AND DARIYA KHAN MARI DISTRICT TANDO ALLAHYAR(NON –ADP)

TENDERS DOCUMENTS

Name of Department: Public Health Engineering Department

Name of Procuring Agency: Executive Engineer, Public Health Engineering (Dev) Division Tando Allahyar

Reference N.I.T.No.TC/PHE/204/ 2026 Tando Allahyar Dated:- 09-03-2026

Date of Opening 06-04-2026 **Time:** 03:00 PM

Documents Issued to: _____

Tender Fee through Pay order No. _____ **Dated:** - _____

Tender Fee Rs:- 5000/-


EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG:(DEV) DIVISION
TANDO ALLAHYAR

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**INSTRUCTIONS
TO
BIDDERS (ITB) AND APPENDICES
TO ITB**

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INSTRUCTIONS TO BIDDERS

A. GENERAL

IB.1 Scope of Bid and Source of Funds

1.1 Scope of Bid

CONSTRUCTION OF WATER SUPPLY SCHEME BASE ON (SLOW SAND FILTRATION SYSTEM), DRAINAGE SYSTEM I/C PAVER BLOCK N SOLAR STREET LIGHTS IN VARIOUS VILLAGES OF U,C SANJAR CHANG U,C LANDHI AND DARIYA KHAN MARI DISTRICT TANDO ALLAHYAR(NON –ADP)

Bidders must quote for the complete scope of works/Services. Any bid covering partial scope of work/services will be rejected as non-responsive, pursuant to Clause IB.24.

1.2 Source of Funds

The Government of Sindh will provide the funds under Annual Development Programme 2025-2026 for the project and proceeds of the funds will be applied to eligible payment under the contract for which these bidding documents are issued.

IB.2 Eligible Bidders

2.1 Bidding is open to all firms and persons meeting the following requirements as well as mentioned in the NIT.

- a) Duly licensed by the Pakistan Engineering Council (PEC) in relevant Categories C-2 and above with specialization in CE-01, CE09, CE10, CE11, ME-07 EE-11 (vi) (General Electric works only) EE-11 (ii) & EE-11 (xvii) (Solar Energy / Works)
- b) Foreign Bidders from eligible countries as per Appendix 'A' to Instructions to Bidders.
- c) Prequalified, if such prequalification exercise has been conducted.

IB.3 Eligible Goods and Services

3.1 All Goods and Services to be supplied under this Contract shall have their origin in eligible countries listed in Appendix 'A' to Instructions to Bidders and all expenditures made under the Contract will be limited to such Goods and Services.

3.2 For purpose of this Clause, "origin" means the place where the Goods are mined, grown or produced or from where the Services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling 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.

IB.4 Cost of Bidding

- 4.1 The Bidder shall bear all costs associated with the preparation and submission of its respective bid and the Owner will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

IB.5 Contents of Bidding Documents

- 5.1 In addition to Invitations for Bids, the Bidding Documents are those stated below, and should be read in conjunction with any Addendum issued in accordance with Clause IB.7.

1. Instructions to Bidders with Appendices to ITB
2. Form of Bid & Appendices to Bid

Appendices to Bid are the following:

- (i) Appendix A: Scope of Services
- (ii) Appendix B: Reimbursable Costs
- (iii) Appendix C: Notice and Communication Protocols
- (ii) Appendix D: Work/Services to be performed by Subcontractors
- (vi) Appendix E: Method of Performing Works/Services
- (vii) Appendix F: Proposed Organization
- (viii) Appendix G: Integrity Pact
3. Schedule of Prices
4. General Conditions of Contract, Part-I(GCC)
5. Particular Conditions of Contract, Part-II(PCC)
6. Standard Forms
 - (i) Form of Bid Security
 - (ii) Form of Contract Agreement
 - (iii) Form of Performance Security
 - (iv) Form of Bank Guarantee/Bond for Advance Payment
7. Specifications - Special Provisions
8. Specifications - Technical Provisions
9. Drawings

- 5.2 The Bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the bidders own risk. Pursuant to Clause IB.24, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.6 Clarification of Bidding Documents

- 6.1 A prospective Bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Owner in writing or by telex or fax at the address:

OFFICE OF THE EXECUTIVE ENGINEER, PUBLIC HEALTH ENGG. DIVISION
TANDO ALLAHYAR COURT ROAD NEAR SHAH ABDUL LATIF PARK TANDO
ALLAHYAR

Owner will examine the request for clarification of the Bidding Documents which it receives not later than ten days (10) prior to the deadline for the submission of bids and if needed will issue the clarification/amendment of the Bidding Documents at least five (05) days before the date of submission of Bids (without identifying the source of enquiry but including its description) to all prospective Bidders who have purchased the Bidding Documents.

IB.7 Amendment of Bidding Documents

- 7.1 At any time prior to the deadline for submission of bids, the Owner may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by issuing addendum.
- 7.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 5.1 hereof, and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective Bidders shall acknowledge receipt of each addendum in writing to the Owner. The Bidder shall also confirm in the Form of Bid that the information contained in such addenda have been considered in preparing his bid.
- 7.3 To afford prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Owner may at its discretion extend the deadline for submission of bids in accordance with Clause IB.19.

C. PREPARATION OF BIDS

IB.8 Language of Bid

- 8.1 The Bid prepared by the Bidder and all correspondence and documents related to the Bid, exchanged by the Bidder and the Owner shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in any other language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the Bid, the English translation shall govern.

IB.9 Documents Comprising the Bid

- 9.1 The bid prepared by the Bidder shall comprise the following components:

- (a) Covering Letter
- (b) Form of Bid duly filled, signed and sealed, in accordance with Clause IB.17.
- (c) Appendices (A to G) to Bid duly filled and signed, in accordance with the instructions contained therein.
- (d) Schedule of Prices completed in accordance with Clauses IB.11 and 12.
- (e) Bid Security furnished in accordance with Clause IB.15.
- (f) Power of Attorney in accordance with Clause IB 17.5.
- (g) Joint Venture Agreement (if applicable). A foreign Bidder is entitled to bid only in a joint venture with a Pakistani constructor/operator in accordance with the provisions of relevant PEC bye-laws.
- (h) Documentary evidence established in accordance with Clause IB.13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.
- (i) Documentary evidence established in accordance with Clause IB.14 that the Goods and Services to be supplied by the Bidder are eligible Goods and Services and conform to the Bidding Documents.
- (j) Bidders applying for eligibility for domestic preference in bid evaluation shall supply all information & evidence to establish the claim for domestic preference required to satisfy the criteria for eligibility as described in Clause IB.27. The particulars for domestic Goods prescribed in Appendix C to these Instructions shall also be filled in to substantiate claim for domestic preference.
- (k) Any other documents prescribed in Particular Conditions of Contract or Technical Provisions to be submitted with the bid.

IB.10 Form of Bid and Schedules

- 10.1 The Bidder shall complete, sign and seal the Form of Bid, Appendices (A to G, or as modified) to Bid and Schedule of Prices furnished in the Bidding Documents and shall also enclose other information as detailed in Clause IB.9.
- 10.2 For the purpose of granting a margin of domestic preference; applicable only in case of supply of Goods/Equipments, if any; pursuant to Clause IB.27, the Owner will classify the bids, when submitted in one of three groups as follows subject to change if any, as per policy of the Federal Government as applicable at the date of bid opening;
- (a) **Group ‘A’ Bid.** (i) For Goods for which labour, raw materials and components from within Pakistan account for at least 20% of the ex-factory bid price of the products offered (ii) For Goods for which labour, raw materials and components from within Pakistan account for over 20% and up to 30% of the ex-factory bid price of the products offered (iii) For Goods for which labour, raw materials and components from within Pakistan account for over 30% of the ex-factory bid price of the products offered.
 - (b) **Group ‘B’ Bid.** For Goods manufactured in Pakistan for which the domestic value added in the manufacturing cost is less than 20% of the ex-factory bid price; and
 - (c) **Group ‘C’ Bid.** For Goods of foreign origin.

In preparing their bids, the Bidders, whether local or foreign, shall enter in the Schedule of Prices ex-factory price for indigenously manufactured products and CIF price as well as customs duty and sales tax and other import charges for products to be imported from outside Pakistan.

IB.11 Bid Prices

- 11.1 The Bidder shall fill up the Schedule of Prices attached to these documents indicating the unit rates and prices of the Works/Services to be performed under the Contract. Prices on the Schedule of Prices shall be entered keeping in view the instructions contained in the Preamble to the Schedule of Prices.
- 11.2 The Bidder shall fill in rates and prices for all items of the Works/Services described in the Schedule of Prices. Items against which no rate or price is entered by a Bidder will not be paid for by the Owner when executed and shall be deemed covered by rates and prices for other items in the Schedule of Prices.
- 11.3 The Bidder’s separation of price components in accordance with Sub-Clause 11.1 above, will be solely for the purpose of facilitating the comparison of bids by the Owner and will not in any way limit its right to contract on any of the terms offered.
- 11.4 Unless otherwise stipulated in the Conditions of Contract, prices quoted by the Bidder shall remain fixed during the Bidder’s performance of the Contract and not subject to variation on any account. When the Bidders are required to quote only fixed price(s) a

bid submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to Clause IB.24.

- 11.5 Any discount offered shall be valid for at least the period of validity of the bid. A discount valid for lesser period shall be considered null and void.

IB.12 Currencies of Bid and Payment

- 12.1 Prices shall be quoted in Pak Rupees:

IB.13 Documents Establishing Bidder's Eligibility and Qualifications

- 13.1 Pursuant to Clause IB.9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.
- 13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Owner's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible source country as defined under Clause IB.2.
- 13.3 The documentary evidence of the Bidder's qualification to perform the Contract if its bid is accepted, shall establish to the Owner'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 to Pakistan;
 - (b) that the Bidder/Manufacturer has the financial, technical and production capability necessary to perform the Contract; and
 - (c) that, in the case of a Bidder not doing business within Pakistan the Bidder is or will be (if successful) represented by an agent in Pakistan equipped and able to carry out the Supplier's maintenance, repair and spare parts stocking obligations prescribed by the Conditions of Contract and/or Technical Provisions.
- 13.4 Bidder/Manufacturer must possess and provide evidence of the following experience:-

HOW TO APPLY:-

- 1) Bidding documents containing detailed terms and condition can be views and download from <http://portalsindh.eprocure.gov.pk/>.
- 5). Bids shall be submitted electronically through the "EPADS" only. Manual submission will not be entertained.
Interested bidders must ensure their registration on EPADS at <http://portalsindh.eprocure.gov.pk/>.
- 6). The original instrument of Tender Fee & bid security in the shape of call deposit/ pay order shall be delivered to the Procurement Agency on or before the deadline for submission of E-Bids.

MANDATORY CONDITIONS:

- i) Each page of the Technical Proposal must be attested by the owner of firm / company along-with its stamp.
- ii) Bid Validity period 90 days.
- iii) Conditional tenders will be rejected.

ELIGIBILITY CRITERIA:-

- a) Firm / Contractors must be registered with Pakistan Engineering Council (PEC Valid upto June-2026) in relevant category with specialization Code in CE09, CE10, EE11 (Required for General Electric works only) Supported by PEC valid registration certificate.
- b) **Experience in Similar Nature of works (S) Executed during last 5 years:**
 - (i) At least one similar nature of work having minimum cost 80% of the estimate cost of the work; **OR**
 - 2) At least two (02) similar nature works each having minimum cost 50% of the estimate cost.
- c) Bio data of Engineering and Technical staff (Civil) working with the firm along with Attested CVs, which showing employment with firm.
- d) Average annual financial turnover not less than equivalent cost of the Scheme / Project last five (05) years.
- e) Registration with Income Tax Department (NTN Certificate should be attached) and Sindh Revenue Board (SRB Certificate should be attached) supported by copies of Income Tax return receipts of the last three (3) years. Must be active Tax Payer Status.
- f) Litigation history in which the decision has been given against or in favor of the firm (s). List and give brief details of arbitration / litigation / court cases if any in case of no such cases enclose an affidavit duly attested that the firm has not been involved in any litigation arbitration with any Government Departments.
- g) Bank Account Statement in the name of the Bidders Firm for the last three (3) years must be submitted with the Technical Proposal.
- h) Annual audit reports of last three years from (ICAP) registered audit firm. Audit report issued other than (ICAP) registered audit firms will not be accepted.
- i) Affidavit duly attested to the effect that the all documents/particulars/information furnished are true and correct, if any information found incorrect/misleading the Procuring Agency reserves the right to reject the bid.
- j) An original and latest undertaking/Affidavit on **E-Stamp Paper duly attested Rs.500/-** that the Bidder and its firm have never been blacklisted by any Government, Semi Government, Autonomous or State-Owned Organization & their cases regarding blacklisting are not under trial by any Court of Law. De-listed firm will be allowed.

Evaluation Criteria, sub-criteria, for the evaluation of Full Technical Proposals is based on **Yes / No OR Pass / Fail**; if a bidder fails to obtain yes or pass in any criteria or sub- criteria then he/ she / it shall not be qualified.

The Competent Authority reserves the right to reject any or all application as per SPPRA Rules 2010 (Amended-up-to-date).

In case, Government announces any public Holiday on Scheduled dates, the tender will be opened on the next working day, as per usual schedule in accordance with R u l e -41 (B) of SPPRA 2010 (Amended upto-date).



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PUBLIC HEALTH ENGINEERING
DIVISION TANDO ALLAHYAR

The Bidder shall certify the capacity and capability for performing the Water Supply & Sewerage Works/Services, qualified man-power and production/delivery of quality materials according to bid specifications and delivery requirements. Besides, such plant should have produced same quality and quantity of water for which it was designed and the Bidder shall submit with the bid all necessary documentation in this regard. The Owner will have the right to verify the particulars regarding the plant and other related information furnished with the bid and the joint venture as well as the partners thereof shall be liable for disqualification in the event of any mis-statement/mis-representation on their part.

The Bidder shall furnish documentary evidence of qualification on the Form "Evidence of Bidder's Capability" (Appendix B to these Instructions)

- (b) The Bidder should have an average annual turnover in the last five years equal to or more than the Total Bid Price. Alternately, the Bidder should have successfully completed in the last five years any specific project having value equal to or higher than the total Bid Price.

13.5 Joint Venture

In order for a Joint Venture to qualify:

- (a) At least one of the partners of joint venture shall satisfy the relevant experience criteria specified in Sub-Clause 13.4(a) hereinabove.
- (b) All firms comprising the joint venture shall be legally constituted and shall meet the eligibility requirement of Sub-Clause 2.1 hereof.
- (c) All partners of the joint venture shall at all times and under all circumstances be liable jointly and severally to Owner for the execution of the entire Contract in accordance with the Contract terms and conditions and a statement to this effect shall be included in the authorization mentioned under para (f) below as well as in the Form of Bid and Form of Contract Agreement (in case of a successful bidder).
- (d) The Form of Bid, and in the case of successful bidder, the Form of Contract Agreement, shall be signed so as to be legally binding on all partners.
- (e) One of the joint venture partners shall be nominated as being in-charge and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners.
- (f) The partner-in-charge shall be authorized to incur liabilities, receive payments and receive instructions for and on behalf of any or all partners of the joint venture.
- (g) A copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which

persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partner without prior written consent of the Owner.

- 13.6 The Bidder shall propose, in order of his priority; plant, equipment or goods of not more than three Manufacturers. Owner at his own jurisdiction will evaluate the plant, equipment or goods of only one of such Manufacturers.

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

- 14.1 Pursuant to Clause IB.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 perform under the Contract.

- 14.2 The documentary evidence of the Goods and Services eligibility shall establish to the Owner's satisfaction that they will have their origin in an eligible source country as defined under Clause IB.3. A certificate of origin issued at the time of shipment will satisfy the requirements of the said Clause.

- 14.3 The documentary evidence of the Goods and Services' conformity to the Bidding Documents may be in the form of literature, drawings and data and shall furnish:

- (a) A detailed description of the Goods, essential technical and performance characteristics.
- (b) Complete set of technical information, description data, literature and drawings as required in accordance with Appendix A to Bid, Scope of Services. This will include but not to be limited to the following:
 - (i) A sufficient number of drawings, photographs, catalogues, illustrations and such other information as is necessary to illustrate clearly the significant characteristics such as general construction dimensions and other relevant information about the Goods to be furnished.
 - (ii) Details of equipment and machinery with capacity.
 - (iii) Any other information which is required for evaluation purposes.
- (c) A clause-by-clause commentary on Technical Provisions, provided with the Bidding Documents, demonstrating the Goods' and Services' substantial responsiveness to those Specifications or a statement of deviations and exceptions to the provisions of the Technical Provisions.

- 14.4 For purpose of the commentary to be furnished pursuant to Sub-Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers, designated by the Owner in the Technical Provisions 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 Owner's satisfaction that the substitutions are substantially equivalent or superior to those designated in the Technical Provisions. Copies of the standards proposed by the Bidder other than those specified in the Bidding Documents shall be furnished.

IB.15 Bid Security

- 15.1 Each Bidder shall furnish, as part of his Bid, a Bid Security in an amount equal to 5% of the total project cost in Pak Rupees or an equivalent amount in any freely convertible currency.
- 15.2 The Bid Security shall be, at the option of the Bidder, in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan in favour of the Employer valid for a period twenty eight (28) days beyond the bid validity date.
- 15.3 The Bid Security is required to protect the Employer against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to Sub-Clause 15.7 hereof.
- 15.4 Any Bid not accompanied by an acceptable Bid Security shall be considered by the Employer as non-responsive, pursuant to Clause IB.24.
- 15.5 The Bid securities of unsuccessful Bidders will be returned upon award of contract to the successful Bidder or on the expiry of validity of Bid Security whichever is earlier.
- 15.6 The Bid Security of the successful Bidder will be returned when the bidder has furnished the required Performance Security pursuant to Clause IB.34 and signed the Contract Agreement, pursuant to Clause IB.35.
- 15.7 The Bid Security may be forfeited:
 - (a) if a Bidder withdraws his Bid during the period of Bid validity;
 - (b) If a Bidder does not accept the correction of his Lump-Sum Fixed Price Bid, pursuant to Sub-Clause 24.2 hereof; or
 - (c) In the case of a successful Bidder, if he fails to:
 - (i) Furnish the required Performance Security in accordance with Clause IB.34, or
 - (ii) Sign the Contract Agreement, in accordance with Clause IB.35.

IB.16 Validity of Bids

- 16.1 Bids shall remain valid for 90 days after the date of bid opening as prescribed in Clause IB.19.
- 16.2 In exceptional circumstances prior to expiry of original bid validity period, the Owner may request the Bidders to extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without forfeiture of his Bid Security. A Bidder agreeing to the request will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.15 in all respects in which case, the Owner will be obligated to compensate the Bidders, upon substantiation for their increase in costs (if it is a fixed price bid).

IB.17 Format and Signing of Bid

- 17.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.
- 17.2 All Appendices to Bid are to be properly completed and signed.
- 17.3 No alteration is to be not made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any alteration be made or if these instructions be not fully complied with, the bid may be rejected.
- 17.4 Each Bidder shall prepare one (1) Original, of the documents comprising the bid as described in Clause IB.9 and clearly mark them "ORIGINAL" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 17.5 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign (in the case of copies, Photostats are also acceptable). This shall be indicated by submitting a written Power of Attorney authorizing the signatory of the Bidder to act for and on behalf of the Bidder. All pages of the bid shall be initialed and stamped by the person or persons signing the bid.
- 17.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Owner, or as are necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the bid.
- 17.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.
- 17.8 Bidders should retain a copy of the Bidding Documents as their file copy.

D. SUBMISSION OF BIDS

IB.18 Sealing and Marking of Bids

18.1 Each bidder shall submit his bid as under:

- (a) ORIGINAL of the Bid shall be separately sealed and put in separate envelopes and marked as such.
- (b) The envelopes containing the ORIGINAL will be put in one sealed envelope and addressed / identified as given in Sub- Clause 18.2 hereof.

18.2 The inner and outer envelopes shall;

- (a) Be addressed to the Owner at the address given in Sub-Clause 6.1 heretofore.
- (b) Bear the Project name, Bid No. and Date of opening of Bid.
- (c) Provide a warning not to open before the time and date for bid opening.

18.3 The Bid shall be delivered in person or sent by registered mail at the address to Owner as given in Sub-Clause 6.1 heretofore.

18.4 In addition to the identification required in Sub-Clause 18.2 hereof, the inner envelope shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared “late” pursuant to Clause IB.20.

18.5 If the outer envelope is not sealed and marked as above, the Owner will assume no responsibility for the misplacement or premature opening of the bid.

IB.19 Deadline for Submission of Bids

19.1 (a) Bids must be received by the Owner at the address specified in Sub-Clause 6.1 hereof not later than the time and date stipulated in the Invitation for Bids.

- (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims for refund of each expenses will be entertained.

- (c) Where delivery of a bid is by mail and the Bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package.

- (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.

19.2 Bids submitted through telegraph, telex, fax or e-mail shall not be considered.

- 19.3 The Owner may, at his discretion, extend the deadline for submission of bids by issuing an addendum in accordance with Clause IB.7, in which case all rights and obligations of the Owner and the Bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

IB.20 Late Bids

- 20.1 (a) Any bid received by the Owner after the deadline for submission of bids prescribed in Clause IB.19 will be returned unopened to such Bidder.
- (b) Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the Bidder's responsibility to determine the manner in which timely delivery of his bid will be accomplished either in person, by messenger or by mail.

IB.21 Modification, Substitution and Withdrawal of Bids

- 21.1 Any Bidder may modify, substitute or withdraw his bid after bid submission provided that modification, substitution or written notice of the withdrawal is received by the Owner prior to the deadline for submission of bids.
- 21.2 The modification, substitution or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.18 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL", as appropriate.
- 21.3 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security pursuant to Clause IB.15.

E. BID OPENING AND EVALUATION

IB.22 Bid Opening

- 22.1 A committee consisting of nominated members by the Owner will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.21, in the presence of Bidders' representatives who choose to attend, at the time, date and location stipulated in the Invitation for Bids.

The Bidders' representatives who are present shall sign in a register evidencing their attendance.

- 22.2 Envelopes marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" shall be opened and read out first and the name of the Bidder shall be read out. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause IB.21 shall not be opened.

- 22.3 The Bidder's name, Bid Prices, unit rates, any discount and price of any Alternate Proposal(s), bid modifications, substitutions and withdrawals, the presence or absence of Bid Security, and such other details as the Owner at its discretion may consider appropriate, will be announced by the Owner at the bid opening. The Owner will record minutes of bid opening.

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

- 22.4 Discounts offered for lesser period than the bid validity shall not be considered in evaluation.

IB.23 Clarification of Bids

- 23.1 To assist in the examination, evaluation and comparison of Bids the Owner may, at his discretion, ask the Bidder for a clarification of his Bid. The request for clarification and the response shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

IB.24 Preliminary Examination & Determination of Responsiveness of Bids

- 24.1 Prior to the detailed evaluation of bids, pursuant to Clause IB.26:

(a) the Owner will examine the Bids to determine whether;

- (i) The Bid is complete and does not deviate from the scope,
- (ii) Any computational errors have been made,
- (iii) Required sureties have been furnished,
- (iv) The documents have been properly signed,
- (v) The Bid is valid till required period,
- (vi) The Bid prices are firm during currency of contract if it is a fixed price bid,

- (vii) Completion period offered is within specified limits,
- (viii) The Bidder/Manufacturer is eligible to Bid and possesses the requisite experience,
- (ix) The Bid does not deviate from basic technical requirements, and
- (x) The Bids are generally in order.

(b) A bid is likely not to be considered, if;

- (i) it is unsigned,
- (ii) its validity is less than specified,
- (iii) it is submitted for incomplete scope of work,
- (iv) it indicates completion period later than specified,
- (v) it indicates that Works/Services and materials to be supplied do not meet eligibility requirements,
- (vi) It indicates that Bid prices do not include the amount of income tax.

(c) A bid will not be considered, if;

- (i) It is not accompanied with bid security,
- (ii) It is submitted by a Bidder who has participated in more than one bid,
- (iii) It is received after the deadline for submission of bids,
- (iv) It is submitted through fax, telex, telegram or email,
- (v) It indicates that prices quoted are not firm during currency of the contract whereas the Bidders are required to quote fixed price(s),
- (vi) The Bidder refuses to accept arithmetic correction,
- (vii) It is materially and substantially different from the Conditions/ Specifications of the Bidding Documents.

24.2 Arithmetical errors will be rectified on the following basis:

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

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

24.3 Prior to the detailed evaluation pursuant to Clause IB.26, the Owner will determine the substantial responsiveness of each Bid to the Bidding Documents. For purpose of these Clauses, a substantially responsive Bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviations.

A material deviation or reservation is one

- (i) which affects in any substantial way the scope, quality or performance of the Works/Services.
- (ii) which limits in any substantial way, inconsistent with the Bidding Documents, the Owner's rights or the Bidder's obligations under the Contract; or
- (iii) whose rectification/adoption would affect unfairly the competitive position of other Bidders presenting substantially responsive bids.

The Owner's determination of a Bid's responsiveness will be based on the contents of the Bid itself without recourse to extrinsic evidence.

- 24.4 A Bid determined as substantially non-responsive will be rejected and will not subsequently be made responsive by the Bidder by correction of the non-conformity.
- 24.5 Any minor informality or non-conformity or irregularity in a Bid which does not constitute a material deviation may be waived by Owner, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

IB.25 Conversion to Single Currency

- 25.1 To facilitate evaluation and comparison, the Owner will convert, all Bid Prices expressed in the amount in various currencies in which Bid Price is payable, to Pak. Rupees at the Telegraphic Transfer and Over Draft (TT&OD) composite (selling) exchange rates published/authorized by State Bank of Pakistan and applicable to similar transactions, on the date of the opening of Bids.

IB.26 Detailed Evaluation of Bids

- 26.1 The Owner will evaluate and compare only the bids previously determined to be substantially responsive pursuant to Clause IB.24 as per requirements given hereunder.
- 26.2 Evaluation and Comparison of Bids
 - (a) Bids will be evaluated for each item and/or complete scope of work/Services.
 - (b) Basis of Price Comparison
The prices will be compared on the basis of the Evaluated Bid Price pursuant to Para (e) herein below.
 - (c) Technical Evaluation
It will be examined in detail whether the Goods offered by the Bidder comply with the Technical Provisions of the Bidding Documents. For this purpose, the Bidder's data submitted with the bid will be compared with the specific scope of Services prescribed by the Owner and technical features/criteria of the Goods detailed in the Technical Provisions. Other technical information submitted with the bid regarding the Scope of Work/Services will also be reviewed.
 - (d) Commercial Evaluation
It will be examined in detail whether the bids comply with the commercial/contractual conditions of the Bidding Documents. It is expected that

no major deviation/stipulation shall be taken by the Bidders.

(e) Evaluated Bid Price

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

- (i) making any correction for errors pursuant to Sub-Clause 24.2 hereof.
- (ii) excluding Provisional Sums, if any, but including priced Day work.
- (iii) making an appropriate adjustment for any other acceptable variation or deviation.

26.3 Evaluation Methods

Pursuant to Sub-Clause 26.2, Para (e)(iii), following evaluation methods for price adjustments will be followed:

- (a) Price Adjustment for Completeness in Scope of Works/Services
- (b) Price Adjustment for Technical Compliance
- (c) Price Adjustment for Commercial Compliance
- (d) Price Adjustment for Deviations in Terms of Payment
- (e) Price Adjustment for Completion Schedule

(i) Price Adjustment for Completion in Scope of Works/Services

In case of omission in the scope of work/Services of a quoted item no price adjustment for the omitted item(s) shall be applied provided that the Bidder has mentioned in his bid that the same is covered in any other item.

The price adjustment shall not justify any additional payment by the Owner. The price(s) of omitted item(s) shall be deemed covered by other prices of the Schedule of Prices.

(ii) Price Adjustment for Technical Compliance

The cost of making good any deficiency resulting from technical noncompliance will be added to the Corrected Total Bid Price for comparison purposes only. The adjustments will be applied taking the highest price quoted by other Bidders being evaluated in detail in their original Bids for corresponding item. In case of non-availability of price from other Bidders, the price will be estimated by the Owner.

(iii) Price Adjustment for Commercial Compliance

The cost of making good any deficiency resulting from any quantifiable variations and deviations from the Bid Schedules and Conditions of Contract, as determined by the Owner will be added to the Corrected Total Bid Price for comparison purpose only. Adjustment for commercial compliance will be based on Corrected Total Bid Prices.

(iv) Price Adjustment for Deviation in Terms of Payment

If a bid deviates from the terms of payment/payment conditions as specified in the Conditions of Contract and if such deviation is considered acceptable to the Owner, mark-up earned for any earlier payments involved in the terms outlined in the Bid as compared to those stipulated in the Conditions of Contract shall be calculated at the following mark-up rates:

and shall be added to the Corrected Total Bid Price for comparison purposes only.

- 26.4 If the bid of the successful Bidder is seriously unbalanced in relation to the Owner's estimate of the cost of work to be performed under the Contract, the Owner may require the Bidder to produce detailed price analyses for any or all items of the Schedule of Prices to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Owner may require that the amount of the Performance Security set forth in Clause IB.34 be increased at the expense of the successful Bidder to a level sufficient to protect the Owner against financial loss in the event of default of the successful Bidder under the Contract.

IB.27. Domestic Preference

- 27.1 In the comparison of evaluated Bids, the Goods manufactured in Pakistan, will be granted a margin of preference in accordance with the following procedures, provided the Bidder shall have established to the satisfaction of Owner that the manufacturing cost of such Goods includes a domestic value addition equal to at least 20% of the ex-factory Bid price of such Goods. Bidders applying for domestic preference shall fill in Appendix C to these Instructions to substantiate their claim.
- 27.2 The Owner will first review the Bids to determine, the Bid group classification in accordance with Sub-Clause 10.2 hereof.
- 27.3 The comparison shall be Ex-factory price of the Goods to be offered from within Pakistan (such prices to include all costs as well as custom duties and taxes paid or payable on raw materials and components incorporated or to be incorporated in the Goods) and the DDP (CIF + Customs duty, sales tax and other import charges) Pakistan seaport price of the Goods to be offered from outside Pakistan.
- 27.4 The lowest evaluated bid of each Group shall first be determined by comparing all evaluated bids in each Group among themselves taking into account:
- (a) In the case of Goods manufactured in Pakistan, sales tax, local body charges and other similar taxes which will be payable on the furnished Goods in Pakistan.

- (b) In the case of Goods of foreign origin offered from abroad, customs duties, sales tax and other import charges which will be payable on furnished Goods in Pakistan.
- (c) In the case of Goods of foreign origin already located in Pakistan, customs duty, sales tax and import charges on CIF price as applicable for Sub-Clause 27.4(b) here above.

27.5 The price preference to Group A bids will be:

- (i) 15% of the ex-factory bid price, if the value addition through indigenous manufacturing is at least 20%;
- (ii) 20% of the ex-factory bid price, if the value addition through indigenous manufacturing is over 20% and up to 30%; and
- (iii) 25% of the ex-factory bid price, if the value addition through indigenous manufacturing is over 30%.

27.6 The applicable price preference i.e., as per Sub-Clause 27.5 herein above will be applied to Group A Bid by reducing the ex-factory bid price.

27.7 The computation for the purpose of domestic preference under sub-clause 10.2 and clause 27, and award of contract shall be subject to change as per policy of the Federal Government as applicable on the date of bid opening.

IB.28 Process to be Confidential

28.1 Subject to Clause 23 heretofore, no Bidder shall contact Owner on any matter relating to his Bid from the time of the Bid opening to the time the bid evaluation result is announced by the Owner. The evaluation result shall be announced at least ten (10) days prior to award of Contract. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated.

28.2 Any effort by a Bidder to influence Owner in the Bid evaluation, Bid comparison or Contract Award decisions may result in the rejection of his Bid. Whereas any Bidder feeling aggrieved may lodge a written complaint not later than fifteen (15) days after the announcement of the bid evaluation result; however, mere fact of lodging a complaint shall not warrant suspension of the procurement process.

F. AWARD OF CONTRACT

IB.29. Post-Qualification

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

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

- 29.2 The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualification submitted under Appendix B to Instructions to Bidders "Evidence of Bidder's Capability" by the Bidder pursuant to Clause IB.13, as well as such other information as required under the Bidding Documents.
- 29.3 An affirmative determination will be a pre-requisite for award of the Contract to the lowest evaluated Bidder. A negative determination will result in rejection of that Bidder's bid in which event, Owner will proceed to undertake a similar determination of the next lowest evaluated Bidder's capabilities to perform the Contract satisfactorily.

IB.30 Award Criteria

- 30.1 Subject to Clause IB.32, the Owner will award the Contract to the Bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such Bidder has been determined to be eligible in accordance with the provisions of clause IB.2 qualified to satisfactorily perform the Contract in accordance with the provisions of Clause IB.29.

IB.31 Owner's Right to Vary Quantities

- 31.1 Owner reserves the right at the time of award of Contract to increase or decrease by upto 15% the quantity of Goods and Services specified in the Schedule of Prices without any change in the unit price or other terms and conditions.

IB.32 Owner's Right to accept any Bid and to reject any or all Bids

- 32.1 Notwithstanding Clause IB.30, the Owner reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or any obligation to inform the affected Bidders of the grounds for the Owner's action except that the grounds for its rejection shall upon request be communicated, to any Bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all Bidders promptly.

- 32.2 No negotiations with the Bidder having been evaluated as lowest responsive or any other Bidder shall be permitted. However, the Owner may have clarification meeting(s) to get clarify any item(s) in the bid evaluation report.

IB.33 Notification of Award

- 33.1 Prior to expiration of the period of bid validity prescribed by the Owner, the Owner will notify the successful Bidder in writing ("Letter of Acceptance") that his bid has been accepted. This letter shall name the sum which the Owner will pay the Contractor in consideration of the execution and completion of the Works/Services by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called the "Contract Price").
- 33.2 The Letter of Acceptance and its acceptance by the Bidder will constitute the formation of the Contract, binding the Owner and the Bidder till signing of the formal Contract Agreement.
- 33.3 Upon furnishing by the successful Bidder of a Performance Security, the Owner will promptly notify the other Bidders that their bids have been unsuccessful and return their bid securities.

IB.34 Performance Security

- 34.1 The successful Bidder shall furnish to the owner a Performance Security in the prescribed form. The said Security shall be furnished by the Contractor within 07 days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 5% of the Contract Price stated in the Letter of Acceptance. Such Security shall, at the option of the bidder, be in the form of either (a) bank guarantee from any Scheduled Bank in Pakistan or (b) bank guarantee from a bank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan. The cost of complying with requirements of this Sub-Clause shall be borne by the operator / Contractor.
- 34.2 Failure of the successful Bidder to comply with the requirements of Sub-Clause IB.34.1 or Clause IB.35 or Clause IB.43 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

IB.35 Signing of Contract Agreement

- 35.1 Within fourteen (14) days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Owner will send to the successful Bidder the Form of Contract Agreement provided in the Bidding Documents, duly filled in and incorporating all agreements between the parties for signing and returning it to the Owner.
- 35.2 The formal Agreement between the Owner and the successful Bidder shall be executed within fourteen (14) days of the receipt of such Form of Contract Agreement by the successful Bidder from the Owner.

G. ADDITIONAL INSTRUCTIONS

IB.36 Instructions not Part of Contract

- 36.1 Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist Bidders in preparing their bids, and do not constitute part of the Bid or the Contract Documents.

IB.37 Contract Documents

- 37.1 The Documents which will be included in the Contract are listed in the Form of Contract Agreement set out in these Bidding Documents.

IB.38 Sufficiency of Bid

- 38.1 Each Bidder shall satisfy himself before Bidding as to the correctness and sufficiency of his Bid and of the rates and prices entered in the Schedule of Prices. Except insofar as it is otherwise expressly provided in the Contract, the rates and prices entered in the Schedule of Prices shall cover all his obligations under the Contract and all matters and things necessary for the proper completion of the Works/Services.

IB.39 One Bid per Bidder

- 39.1 Each Bidder shall submit only one bid either by himself, or as a partner in a joint venture. A Bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.41) will be disqualified and bids submitted by him shall not be considered for evaluation and award.

IB.40 Bidder to Inform Himself

- 40.1 The Bidder is advised to obtain for himself at his own cost and responsibility all information that may be necessary for preparing the bid and entering into a Contract for execution of the Works/Services. This shall include but not to be limited to the following:
- (a) inquiries on Pakistani Income Tax/Sales Tax to the Commissioner of the Income Tax and Sales Tax, Karachi Sindh Pakistan.
 - (b) Inquiries on customs duties and other import taxes, to the concerned authorities of Customs and Excise Department.
 - (c) Information regarding port clearance facilities, loading and unloading facilities, storage facilities, transportation facilities and congestion at Pakistan seaports.
 - (d) Investigations regarding transport conditions and the probable conditions which

will exist at the time the Goods will be actually transported.

IB.41 Alternate Proposals by Bidder

- 41.1 Any Bidder should consider that he can offer any advantage to the Owner / Employer by a modification to the designs, specifications or other conditions. He may, in addition to his bid to be submitted in strict compliance with the Bidding Documents, submit any Alternate Proposal(s) containing (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided that the total sum entered in the Form of Bid shall be that which represents complete compliance with the Bidding Documents.
- 41.2 Alternate Proposal(s), if any, of the lowest evaluated responsive Bidder only may be considered by the Owner as the basis for the award of Contract to such Bidder.

IB.42 Local Conditions

- 42.1 Bidder must verify and supplement by his own investigations the information about site and local conditions. However, Owner will assist the Bidder wherever practicable and possible.

IB.42 Pre-Bid Meeting

The Employer may, at his own or at the request of any prospective Bidder(s), hold a Pre-Bid meeting to clarify issues and to answer any questions on matters related to the Bidding Documents. The date, time and venue of Pre-Bid meeting, if convened, shall be intimated through letter for invitation.

All prospective Bidders or their authorized representatives shall be invited to attend such a Pre-Bid meeting.

IB.43 Integrity Pact

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-G to Bid in the Bidding Document for all Federal Government procurement contracts exceeding Rupees ten (10) million. Failure to provide such Integrity Pact shall make the bid non-responsive.

**Appendix A to
Instructions to Bidders**

NAME OF ELIGIBLE COUNTRIES

All the
successful Water Supply & Sewerage shall be carried out as per International practices and the
replaced parts & goods shall be from the renown manufactures of North American and western
European origin or equivalent and the contractor shall have to submit the detail of source of
manufacturer location and their commitment / supply certificate in this regard to establish the
same

EVIDENCE OF BIDDER'S CAPABILITY

[Note: Bidders to provide the following information with the bid separately and indicate herein its references where this information is available.]

Sr.No.	Information to be Supplied	Bid References
1.	Name of bidder, business address and country of incorporation.	
2.	Type of firm whether individually owned, partnership, corporation or joint venture and the names of its owners or partners.	
3.	The annual reports or qualification statements giving general description of the firm, sort of business carried out, balance sheets, profit and loss statements, turn over and business done by the firm, duly authenticated, for the last three (3) years. Audited Balance Sheets for the preceding 3 years and projected assets and liabilities for the next 2 years shall be provided.	

Sr.No.	Information to be Supplied	Bid References
8.	Reference lists of similar works done/services performed by the bidder in its country and abroad indicating the name of customer, description and quantity of product, year of supply and the approximate value.	
9.	Details of projects under execution and future contractual commitments (for each partner, in case of a joint venture).	
10.	Banking reference, names of banks and addresses may be given to whom reference regarding financial capability of the bidder may be made, with authority to make inquiries from the bidder's bankers and clients regarding any financial and technical aspects (for each partner, in case of a joint venture).	
11.	Information on any litigation or arbitration resulting from contracts completed or under execution by the bidder over the last ten (10) years. The information shall indicate the parties concerned, the matter of dispute, the disputed amounts and the result thereof (for each partner, in case of a joint venture).	

**Appendix C to
Instructions to Bidders**

Domestic Goods (Value added in Pakistan)

[Bidders claiming eligibility for domestic preference should fill in for supply items only, all columns hereunder and provide documentation to substantiate their claim]necessary

Sr. No.	Description of Indigenous Goods	Unit	Qty	Total Price of Goods Ex-Factory (Pak Rs.)	Domestic value added in the manufacturing cost as percentage of Ex-Factory Price	Amount of value addition (Pak Rs.)
1	2	3	4	5	6	7
	N I L					
Total in columns 5 & 7						

Computations:

- | | |
|--|--------------|
| A. Total amount of Value Addition (from Col.7) | Rs _____ |
| B. Total Ex-Factory Price of Indigenous Goods (from Col.5) | Rs _____ |
| C. Total DDP Price of imported supply items | Eqv.Rs _____ |
| D. Total Price of supply items [B+C] | Eqv.Rs _____ |
| E. % of value addition = [(A/D)x100] | _____ % |
| F. Domestic Preference =(15,20 or 25)% of B | Rs _____ |

FORM OF BID AND APPENDICES TO BID

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FORM OF BID AND APPENDICES TO BID

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FORM OF BID
(LETTER OF OFFER)

Bid Reference No. _____

Name of Work:- Construction Of Water Supply Scheme Base On (Slow Sand Filtration System),
Drainages System I/C Paver Block N Solar Street Lights In Various Villages Of U,C
Sanjar Chang U,C Landhi And Dariya Khan Mari District Tando Allahyar(Non –Adp)

To:

The Executive Engineer
Public Health Engineering
Division Tando Allahyar.

1. Having examined the Bidding Documents including Instructions to Bidders, Conditions of Contract, Specifications, Drawings, Schedule of Prices and Addenda Nos. _____ for the execution of the above-named Works/Services, we, the undersigned, being a company doing business under the name of and address _____
_____ and being duly incorporated under the laws of _____ hereby offer to execute and complete such Works/Services and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Bid Price comprising Foreign Currency Component of _____ (_____) and Local Currency Component of Rs. _____ (Rupees _____) or such other sum as may be ascertained in accordance with the said Documents.
2. We understand that all the Schedules attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of _____ (Rs.) _____ drawn in your favour or made payable to you and valid for a period of twenty eight (28) days beyond the period of validity of Bid.
4. We undertake, if our Bid is accepted, to commence the Works/Services and to deliver and complete the whole of the Works/Services comprised in the Contract within the time stated in the Conditions of Contract (PCC 1.2).
5. We agree to abide by this Bid for the period of _____ days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

7. We undertake, if our Bid is accepted, to execute the Performance Security referred to in Sub-Clause 15.15 of Conditions of Contract for the due performance of the Contract.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.
9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other Bidder making a Bid for the Works/Services.
10. We confirm, if our Bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Owner. (Please delete in case of Bid from a single firm).

Dated this _____ day of _____ 20_____

Signature _____ in the capacity of _____ duly

authorized to sign bids for and on behalf of _____

(Name of Bidder in Block Capitals)

(Seal)

Address

Witness:

(Signature) _____

(Name) _____

Address: _____

Occupation _____

BILL OF QUANTITY
Schedule of Price Capacity and Category Wise

Separate Sheet Attached.

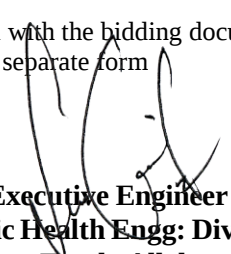
Total Quoted Amount for Rs:-_____

In Words_____

Note:

Details showing locations, type, capacity and status of plants are attached with the bidding documents. Bidder has to fill schedule of price for each plant capacity wise and category wise in separate form

Contractor / Firm


Executive Engineer
Public Health Engg: Division
Tando Allahyar

APPENDIX–C TO BID

NOTICES AND COMMUNICATION PROTOCOLS

The contractor should adopted the standard and latest notices and communication protocols used for the successful implementation of the project.

PRIMARY CONTACT INFORMATION

Address,
Phone No.
Fax No.
email
& whatsapp etc.

SECONDARY CONTACT INFORMATION

(Alternate)

APPENDIX-D TO BID

WORKS/SERVICES TO BE PERFORMED BY SUB CONTRACTORS

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

<u>Items of Work</u> <u>/Services to be</u> <u>Sub-Contracted</u>	<u>Name and address of</u> <u>Sub-Contractor</u>	<u>Statement of similar</u> <u>works/services previously</u> <u>executed(attach evidence)</u>
---	---	---

Note:

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

METHOD OF PERFORMING THE WORKS/SERVICES

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

- The sequence and methods in which he proposes to carry out the Works/Services, including the number of shifts per day and hours per shift, he expects to work.
- A list of all major items of constructional and erection plant, tools and vehicles proposed to be used in carrying out the Works/Services at Site, including number of each kind, make, type, capacity of all equipment, working condition, which shall be deployed by him for Civil Work and Erection, Testing and Commissioning of the Works, in sufficient detail to demonstrate fully that the equipment will meet all the requirements of the Technical Provisions.
- The procedure for installation of equipment and machinery and transportation of equipment and materials to the site.
- Details regarding mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
- Organization chart indicating head office & field office personnel involved in management, supervision and engineering of the Works to be done and Services to be performed under the Contract.

PROPOSED ORGANISATION

The Bidder shall list in this Schedule the key personnel he will employ from Head office and for Site office to direct and execute the Works and perform the Services, together with their names, qualifications, experience, positions held and their nationalities.

Designation	Name of Person	Summary of Qualifications, Experience, Present Position and Nationality
--------------------	-----------------------	--

- Head Office:
- Site Office:
 - Contractor's Representative
 - Site Superintendent
 - Supervising Engineer
 - Plant Erectors
 - Construction Supervisors
 - Other Key Staff

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN
CONTRACTS WORTH RS. 10.00 MILLION OR MORE**

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

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

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

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

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

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

Name of Buyer:

Name of Seller/Supplier:

Signature:

Signature:

[Seal]

[Seal]

GENERAL CONDITIONS OF CONTRACT

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GENERAL CONDITIONS OF CONTRACT

1 AGREEMENT

1.1 AGREEMENT

This Agreement consists of the terms and conditions set forth in the sections captioned by numbered clause designations ("Clauses") and the following appendices, which are incorporated and made part of this Agreement by this reference and are included in any reference to this Agreement:

Appendix A - Scope of Services

Appendix B – Reimbursable Costs

Appendix C – Notices and Communication Protocols

Appendix D – Works to be Performed by Subcontractors/Operator

Appendix E_ Method of Performing The Works

Appendix F_ Proposed Organization

Appendix G_ Integrity Pact

If the terms and conditions of the Clauses of this Agreement vary or are inconsistent with any portion of the Appendices, the terms of the Clauses this Agreement shall control and be given priority, and the provisions of the Appendices shall be subject to the terms of the Clauses. This Agreement contains the entire agreement between the parties and supersedes all prior agreements, whether oral or written, between the parties with respect to the subject matter of this Agreement. Neither party will be bound by or be deemed to have made any representations, warranties, commitments or other undertakings with respect to the subject matter of this Agreement that are not contained in this Agreement.

1.2 EFFECTIVE DATE AND TERM

This Agreement shall be effective and shall govern the rights and obligations of the parties from and after the date of this Agreement for a period *as mentioned in PCC* .

1.3 RELATIONSHIP OF THE PARTIES

Operator has been retained by Owner as an independent contractor to operate, maintain and manage the Project on behalf of Owner, in accordance with Prudent Utility Practice and the requirements of the Project Agreements. Owner has delegated to Operator overall responsibility for operating, maintaining and managing the Project to ensure that the Project is available for its function namely *as provided in PCC* for Owner and meets all requirements under the Project Agreements. Neither Operator nor any of its employees, subcontractors or agents shall be deemed to have any other status, except that Operator is the agent of Owner to the limited extent that this Agreement expressly grants Operator the authority to act on behalf of Owner.

1.4 REPRESENTATIVES

Owner and Operator shall each designate a representative ("Designated Representative") to act on its behalf in overseeing the performance of this Agreement. Owner and Operator may change their respective Designated Representatives upon written notice to the other party given as provided in this Agreement. Designated Representatives shall be the primary means for communication and all other interactions between Owner and Operator that are required under this Agreement. Designated Representatives shall have the power and authority to bind their respective principals under the terms of this Agreement, with any required internal corporate approvals with respect to such authority being the responsibility of each representative to obtain from his or her principal.

1.5 INTEGRITY PACT.

For Contracts of worth Rupee ten million or more, which relate to federal finance, the Integrity Pact duly signed between the Operator(Contractor/supplier) shall be binding till completion of the contract. In other cases, this Sub-Clause 1.5 of the Agreement is not applicable.

2 DEFINITIONS

Unless otherwise required by the context in which a defined term appears, the following terms shall have the meanings specified in this Clause 2. Terms that are defined in other Clauses shall have the meanings given to them in those Clauses.

"Annual Project Operating Plan" has the meaning set forth in Sub-Clause 6.2.

"Annual Operating Fee" means an annual operating fee paid to Operator during each Contract Year as set forth in Sub-Clause 5.2.

"Annual Budget" has the meaning set forth in Sub-Clause 6.2

"Bankruptcy" means a situation in which (i) a party's actions under applicable debtor relief laws demonstrate an inability to pay its debts as they mature or a need for protection from its creditors; (ii) a court of competent jurisdiction approves a petition filed against a party, which petition sought relief for the party's creditors, and the action of the court remains in effect for an aggregated period of 60 days (whether or not consecutive); (iii) a party admits in writing its inability to pay its debts as they mature; (iv) a party gives notice to any person or entity of its current (or pending) insolvency or suspension of operations; or (v) a party makes an assignment for the benefit of creditors or takes other similar action for the protection or benefit of its creditors.

"Business Day" means any day other than a Sunday or any other day on which commercial banks are authorized or required to close the business *as mentioned in PCC*.

"Contract Year" means: (i) for the first Contract Year, that period from the date of this Agreement to and including June 30 of such year; and (ii) for each Contract Year thereafter, the fiscal year.

"Five-Year Budget" has the meaning set forth in Sub-Clause 6.2(e).

"Force Majeure Event" means an event, condition or circumstance beyond the reasonable control of, and not due to the fault or negligence of, the party affected, and which could not have been avoided by due diligence and use of reasonable efforts, which prevents the performance by such affected party of its obligations hereunder; provided, that a "Force Majeure Event" shall not be deemed to have occurred or to be continuing unless the party claiming Force Majeure complies with the requirements of Sub-Clause 15.3 (*Force Majeure*). Subject to the foregoing, "Force Majeure Event" shall include, as to either party, explosion and fire (in either case to the extent not attributable to the negligence of the affected party), flood, earthquake, storm or other natural calamity or act of God, strike or other labor dispute, war, insurrection or riot, actions or failures to act by governmental entities or officials, failure to obtain governmental permits or approvals (despite timely application thereof and due diligence) and changes in laws, rules, regulations, orders or ordinances affecting of the Project, which events were not pending on the date of this Agreement.

"Operating Manuals" means the operating data, design as-built drawings, specifications, vendors' manuals, warranty requirements, procedures (including those for maintenance of the Project and environmental and safety compliance), and similar materials with respect to the Project.

"Procedures Manual" has the meaning set forth in Clause 6.1.

"Project" means the project *as mentioned in PCC* and related assets, together with other facilities and related assets, to be constructed on certain real property, *as mentioned in PCC*.

"Project Agreements" means the agreements relating to the Project, *as mentioned in PCC*, Interconnection Agreement, this Agreement and all other agreements applicable to the Project, permits, and licenses required for the Water Supply & Sewerage and management of the Project, as identified in writing by Owner.

"Prudent Utility Practice" means (i) any of the practices, methods, and acts engaged in or approved by a significant portion of the project related industry in the country and geographic region where the Project is located during the relevant time period, or (ii) practices, methods and acts that, in the exercise of reasonable judgment on the facts known (or that reasonably should have been known) at the time a decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition.

"Reference Rate" means the discount rate published by the State Bank of Pakistan from time to time.

"Reimbursable Costs" has the meaning set forth in Sub-Clause 5.3.

"Services" has the meaning set forth in Sub-Clause 3.1.

3 SERVICES

3.1 SCOPE OF SERVICES

Operator shall (i) operate, maintain and manage the Project on behalf of Owner ("Services") and (ii) also perform the specific duties set forth in this Agreement if they are not otherwise required by the standards defined in Sub-Clause 3.2.

3.2 STANDARDS FOR PERFORMANCE OF THE SERVICES.

Operator shall perform the Services required under this Agreement, including those set forth in Appendix A, in a prudent, reasonable, and efficient manner and in accordance with (i) Operating Manuals, the Administrative Procedures Manual and applicable vendor warranties, (ii) the applicable Annual Project Operating Plan and Annual Budget, (iii) all applicable Laws, (iv) Prudent Utility Practices, (v) the Project Agreements, (vi) the requirements of any System Operator. Operator shall use all reasonable efforts to optimize the useful life of the Project and to minimize Reimbursable Costs and Project outages or other unavailability.

3.3 OPERATOR'S PERSONNEL STANDARDS

Operator shall provide as reasonably necessary all labor and professional, supervisory and managerial personnel as are required to perform the Services. Such personnel shall be qualified to perform the duties to which they are assigned and shall meet any requirements for Project personnel under the Project Agreements. All individuals employed by Operator to perform the Services shall be employees of Operator, and their working hours, rates of compensation and all other matters relating to their employment shall be determined solely by Operator (subject to Owner's approval rights with respect to the Annual Budget). With respect to labor matters, hiring personnel, and employment policies, Operator shall comply with all applicable Laws. Operator also shall act in a reasonable manner that is consistent with the intent and purpose of this Agreement and with Operator's acknowledgment (hereby given) that Operator has no authority to enter into any contracts with respect to labor matters that purport to bind or otherwise obligate Owner.

3.4 COMPLIANCE

Operator shall comply with all Laws applicable to the ***Construction of Water Supply Scheme Base On (Slow Sand Filtration System), Drainages System I/C Paver Block and Solar Street Lights In Various Villages Of U,C Sanjar Chang U,C Landhi And Dariya Khan Mari District Tando Allahyar (Non-Adp)*** of the Project and the performance of the Services. Operator shall apply for and obtain, and Owner shall assist Operator in applying for and obtaining, all necessary permits, licenses and approvals (and renewals of the same) required to allow Operator to do business or perform the Services in the jurisdictions where the Services are to be performed. Operator shall provide reasonably

necessary assistance to Owner, to secure permits, licenses, and approvals (and renewals of the same) that Owner is required to obtain from or file with any governmental agency regarding the Project. Operator also shall file such reports, notices, and other communications as may be required by any governmental agency regarding the Project.

3.5 OPERATING RECORDS AND REPORTS

Operator shall maintain, at a location acceptable to Owner, the Project operating logs, records, and reports that document the Water Supply and Sanitation of the Project, all in form and substance sufficient to meet Owner's reporting requirements under the Project Agreements. Operator shall maintain current revisions of drawings, specifications, lists, clarifications and other materials related to Water Supply & Sanitation of the Project provided to Operator by Owner and vendors. Operator shall provide Owner reasonably necessary assistance in connection with Owner's compliance with reporting requirements under the Project Agreements, applicable Laws or any other agreement to which Owner is a party relating to the Project. Such assistance shall include providing reports, records, logs and other information that Owner may reasonably request as to the Project or its operation.

3.6 NO LIENS OR ENCUMBRANCES

Operator shall maintain the Project free and clear of all liens and encumbrances resulting from any action of Operator or work done at the request of Operator, except for such liens or encumbrances that result directly from nonpayment by Owner of amounts due and owing to Operator under this Agreement.

3.7 NO ACTION

Except where such action is expressly permitted by this Agreement, Operator shall not take any action that would cause a default under any Project Agreement.

3.8 EMERGENCY ACTION

If an emergency endangering the safety or protection of persons, the Project, or property located near the Project occurs, Operator shall promptly notify Owner and take all necessary action to attempt to prevent or mitigate any such threatened damage, injury or loss. Operator shall make reasonable efforts to minimize any cost associated with remedial action in case of such an emergency.

3.9 ACTION IN EXTRAORDINARY CIRCUMSTANCES

In the event that:

- (A) The Project or major Project equipment suffers an unplanned outage (or Operator reasonably believes that such an occurrence is imminent), and

- (B) Operator has made reasonable, but unsuccessful, efforts to notify and communicate with Owner regarding such occurrence or imminent occurrence in accordance with the terms of this Agreement, then Operator shall:
 - (i) take all necessary action to prevent or to mitigate such unplanned outage,
 - (ii) make reasonable efforts to minimize any cost associated with such remedial action,
 - (iii) continue to attempt to notify and communicate with Owner regarding the occurrence and the remedial action, and

4 OWNER RESPONSIBILITIES

4.1 INFORMATION

Owner shall provide Operator with all vendor manuals, spare parts lists, Project data books and drawings which are provided to Owner pursuant to any Project Agreement or by any contractor responsible for construction, installation, repair or maintenance of the Project or a part thereof. Subject to the standards of performance set forth in Sub-Clause 3.2, Operator shall be entitled to rely upon such information in performance of the Services. Owner shall also provide Operator with copies of all Project Agreements and any amendments thereto and any other documents that define the Project's operating requirements.

4.2 OVERHAUL OF MAJOR EQUIPMENT AND CAPITAL IMPROVEMENT

The cost of all major equipment teardowns and overhauls and all capital improvements shall be the responsibility of Owner. Operator shall promptly notify Owner in writing of any such teardowns and overhauls of major equipment or capital improvements that Operator believes are necessary or advisable together with a proposed schedule for completing such repairs or improvements. To the extent reasonably possible, the costs of all major equipment teardowns and overhauls and all capital improvements shall be incorporated into the applicable Annual Budget. If such costs have been incorporated into the applicable approved Annual Budget, or if Owner has otherwise consented in writing to reimburse Operator for such costs, Operator shall schedule, coordinate, contract and oversee the performance of such activities. Operator also shall be responsible for monitoring and enforcing contract compliance by the contractor performing such work, including taking such steps, short of litigation, to enforce any warranties granted to Owner by such contractor.

4.3 ANNUAL BUDGET AND PROJECT OPERATING PLAN

In accordance with Clause 6, Owner shall be responsible for approval of the Annual Budget, the Annual Project Operating Plan and the Five-Year Budget.

5 COMPENSATION AND PAYMENT

5.1 PAYMENTS

As compensation to Operator for performance of the Services hereunder, Owner shall pay Operator the Annual Operating Fee included in the (or a pro rata portion thereof in the case of a Contract Year of less than 12 months). In addition, Owner shall (at Owner's Option) either (i) reimburse Operator, in the manner and at the times specified in this Clause 5 and Appendix B, as modified from time to time, for all Reimbursable Costs included in the O&M Cost or (ii) pay such Reimbursable Costs directly to the applicable third parties.

5.2 ANNUAL OPERATING FEE

For the first Contract Year and each subsequent Contract Year, Owner shall pay to Operator the sum *as mentioned in PCC* per month of the Contract Year, for an annual fee *as mentioned in PCC* (the "Annual Operating Fee"). Beginning on the first day of the second Contract Year and on the first day of each Contract Year thereafter, the Annual Operating Fee (and the corresponding monthly operating fee) shall be adjusted to reflect changes *as mentioned in PCC*

5.3 REIMBURSABLE COSTS

Owner shall reimburse Operator for all costs incurred by Operator in performing the Services, including the costs set forth in Appendix B (collectively, the "Reimbursable Costs"). Owner's obligation under this provision is subject to (i) Owner's express approval of the costs as part of an Annual Budget or separately in writing, or (ii) Operator incurring costs in accordance with Sub-Clauses 3.8 (*Emergency*), 3.9 (*Extraordinary Circumstances*). Expenditures made by Operator in excess of the Annual Budget that are required to comply with any Law applicable to the Services or to the Project, shall be approved and reimbursed by Owner. Subject to Owner's right to modify the provisions of this Sub-Clause 5.3 from time to time. Owner shall pay Reimbursable Costs as follows:

- (A) Owner will advance to Operator on a mutually agreed basis, funds required for given Operator to make payments as they become due in accordance with the Annual Budget. Not less than fifteen (15) days before the first day of each calendar month during the term of this Agreement, Operator shall submit to Owner an estimate of funds required for such month, which estimate shall be in accordance with the Annual Budget. Owner shall pay to Operator the amount of such estimate prior to the time such funds are required by Operator. Such advances shall be deposited in a separate account in Operator's name, as agent for Owner, in a scheduled Bank of Pakistan, subject to withdrawal by Operator solely for the purpose of making required payments. Within fifteen (15) days of the end of each month, Operator shall submit to Owner a statement of receipts and disbursements, in detail satisfactory to Owner, together with supporting documentation.
- (B) Operator shall not incur Reimbursable Costs unless they are incurred in accordance with the applicable Annual Budget, or are permitted by Sub-Clauses 3.8 (*Emergency*), 3.9 (*Extraordinary Circumstances*). If Operator becomes aware that Reimbursable Costs exceed or will exceed the amount provided in the applicable Annual Budget by 10% or more, Operator shall use all reasonable

efforts to notify Owner within ten (10) days and shall not, without Owner's approval to amend the applicable Annual Budget or Owner's authorization for Operator to make such expenditure, perform any further Services that will cause or increase a budget overrun, except as provided in Sub-Clauses 3.8 (*Emergency*), 3.9 (*Extraordinary Circumstances*). If Owner refuses to authorize expenditures in excess of the Annual Budget, Operator shall be relieved of those duties or obligations of this Agreement that cannot be performed without the expenditures Owner refuses to approve.

- (C) In all cases, Operator shall use reasonable commercial efforts to mitigate any adverse effect from Owner's refusal to authorize expenditures in excess of the Annual Budget. Owner's reimbursement of any cost related to the Services shall not be construed as Owner's approval or acceptance of the Services.

5.4 ADJUSTMENT AND CONDITIONS

Notwithstanding the payment of any amount pursuant to the foregoing provisions, Owner shall remain entitled to conduct a subsequent audit and review of all Reimbursable Costs incurred and paid by Owner and of any supporting documentation for a period of two 2 years after the applicable Contract Year. If such audit and review shows that any amount previously paid by Owner to Operator did not constitute a Reimbursable Cost, Owner may (a) recover such amount from Operator, plus interest at the Reference Rate, calculated from the date the audit commenced, or (b) deduct such amount from any payment that thereafter may become due to Operator.

5.5 BILLING AND PAYMENT

Within 15 days following the end of each month, Operator shall submit the receipts and disbursements showing Reimbursable Costs for such month in accordance with Sub-Clause 5.3(a). Within 15 days after receipt of any such invoice, Owner shall:

- (a) pay Operator the sum specified in such invoice, less (i) any amounts previously deposited with Operator relating to such invoice as well as net interest (if any) earned on the bank deposit, and (ii) any portion of such invoice amount that Owner disputes in good faith or is permitted to offset under this Agreement; and
- (b) with respect to any disputed portion of such invoice, provide Operator with a written statement explaining, in reasonable detail, the basis for such dispute. The parties shall attempt to resolve any such disputed portion in accordance with Clause 14.

CLAUSE 6 PROCEDURES, PLANS AND REPORTING

6.1 PROCEDURES MANUAL

The parties have approved a procedures manual that includes procedures for (i) reporting and correspondence pursuant to this Agreement, (ii) procurement and contracting, and (iii) accounting, bookkeeping and record-keeping ("Procedures Manual"). The Procedures Manual shall govern the covered activities of Operator for the term of this Agreement, subject to such revision and amendment as agreed in writing by Owner and Operator.

6.2 ANNUAL PROJECT OPERATING BUDGET AND PLAN

- (a) **Proposal:** At least ninety (90) days before the beginning of each Contract Year, Operator shall prepare and submit to Owner a proposed annual budget for the Contract Year, established on a monthly basis. The proposed annual budget shall include separate operating and capital budgets. The proposed annual budget shall also set forth, in detail acceptable to Owner, (i) anticipated
- (b) s, repairs and capital improvements, (ii) maintenance and overhaul schedules, (iii) planned procurement (including equipment, spare parts, and consumable inventories), (iv) labor activities (including staffing, labor rates, and holidays), (v) administrative activities, and (vi) other work proposed to be undertaken by Operator, together with an itemized estimate of all Reimbursable Costs to be incurred. Each proposed annual budget shall be acc
- (c) ompanied by a proposed annual operating plan setting forth the assumptions and implementation plans underlying the proposed annual budget. Any actions to be performed by Operator under the proposed annual operating plan shall be consistent with Operator's obligations set forth in this Agreement.
- (b) **Adoption:** Owner shall review Operator's proposed annual budget and annual operating plan within thirty (30) days following receipt of the proposals. Owner may, by written request, propose changes, additions, deletions and modifications

to the proposals. If requested by Operator, Owner shall provide Operator any cost information in Owner's possession from previous Contract Years applicable to items in the proposed annual budget. Owner and Operator will then meet and use their reasonable commercial efforts to agree upon a final budget and plan (the "Annual Budget" and "Annual Project Operating Plan", respectively), which shall be approved in writing by both parties. Except to the extent that the terms of Sub-Clause 3.8 and 3.9 permit Operator to take actions which are outside the final Annual Budget without the consent of Owner, the final Annual Budget and Annual Project Operating Plan shall remain in effect throughout the applicable Contract Year, subject to revisions and amendments proposed by either party and consented to in writing by the other party.

- (c) **Changes:** Operator shall notify Owner as soon as reasonably possible of any significant deviations or discrepancies from the projections contained in the Annual Budget or Annual Project Operating Plan.
- (d) **Failure to Adopt:** If, by the first day of any Contract Year after the first Contract Year, the parties are unable to reach agreement concerning any item or portion of the Annual Budget for such Contract Year, then the amount(s) of such item or portion of the Annual Budget for such Contract Year shall be equal to 105% of the amount for the corresponding item or portion of the Annual Budget for the preceding Contract Year.
- (e) **Five-Year Budget.** At least ninety (90) days before the first day of each Contract Year, Operator shall prepare and submit to Owner a proposed budget for the next 5 Contract Years or the remaining term of the Agreement, whichever period is shorter. The proposed five-year budget shall be established on an annual basis and shall include separate operating and capital budgets. The proposed five-year budget shall also set forth, in detail acceptable to Owner,
 - (i) anticipated work and overhaul schedules;
 - (iii) planned procurement (including equipment, spare parts, and consumable inventories);
 - (iv) labor activities (including staffing, labor rates, and holidays);
 - (v) administrative activities; and
 - (vi) other work proposed to be undertaken by Operator, together with an itemized estimate of all Reimbursable Costs to be incurred, accompanied by the underlying assumptions and implementation plans of the proposed five-year budget. Owner shall review Operator's proposed five-year budget within 30 days following receipt of the proposal. Owner may, by written request, propose changes, additions, deletions and modifications to the proposals. Owner and Operator will then meet and use their reasonable commercial efforts to agree upon a final five-year budget (the "Five-Year Budget"), which shall be approved in writing by both Parties. If a final Five-Year Budget is not approved in its entirety by both parties, the proposed five-year budget submitted by Operator, together with Owner's final suggested changes, additions, deletions and modifications shall serve as the Five Year Budget. The Five-Year Budget shall be used only for planning and comparison purposes, and shall not constrain Operator in its actions or expenditures, provided, however, that Operator

shall be required to conform in its operations to the Annual Budget and Annual Project Operating Plan as provided in this Agreement.

6.3 OPERATING DATA AND RECORDS

Operator shall monitor and record all operating data and information that (i) Owner must report to any person or entity under any Project Agreement, (ii) Owner must report to any government agency or other person or entity under applicable Laws and (iii) Owner reasonably requests. Operator shall report required or requested operating data and information to Owner as specified by Owner to support monthly invoicing under the Project Agreements, and within fifteen (15) Calendar Days following a request by Owner. Operating data to be reported include information from operating (logs, meter and gauge readings) and maintenance records.

6.4 ACCOUNTS AND REPORTS

Operator shall cooperate with Owner in complying with reporting requirements set forth in the Project Agreements and shall, during the term of this Agreement, furnish or cause to be furnished to Owner the following reports concerning the Project and the Services:

- (a) **Monthly Reports:** Within ten (10) calendar days following the last day of each calendar month, Operator shall submit: (i) a progress report, in detail acceptable to Owner, covering all activities during such month with respect to **CONSTRUCTION OF WATER SUPPLY SCHEME BASE ON (SLOW SAND FILTRATION SYSTEM), DRAINAGES SYSTEM I/C PAVER BLOCK N SOLAR STREET LIGHTS IN VARIOUS VILLAGES OF U,C SANJAR CHANG U,C LANDHI AND DARIYA KHAN MARI DISTRICT TANDO ALLAHYAR(NON –ADP))** (including information regarding the inputs and outputs of the project / facility.

(Specify) capital improvements, labor relations, other significant matters, and Services. The monthly report shall include a comparison of such items to the corresponding values for the preceding month and for the corresponding portion of the previous Contract Year, a listing of any significant operating problems along with immediately planned remedial actions, and a brief summary of major activities planned for the next reporting period, and (ii) a statement setting forth all Reimbursable Costs paid or incurred in such month, which statement shall itemize, in detail acceptable to Owner, the computation of such Reimbursable Costs including documentary evidence and shall state whether or not the Project operations have conformed to the applicable Annual Project Operating Plan and Annual Budget during such reporting period and if not, the extent and reasons for any deviation and the planned remedial action.

- (b) **Annual Reports:** As soon as available, and in any event within sixty (60) days after the end of each Contract Year, Operator shall submit an annual report describing, in detail substantially similar to that contained in the monthly reports referred to in Sub-Clause 6.4(a), the Project activities and operating data for such Contract Year. The annual report shall present a comparison of such Project activities and operating data with the goals set forth in the Annual Project Operating Plan and Annual Budget for such Contract Year, and with those

achieved during the preceding Contract Year (if applicable) and an explanation of

any substantial deviations. Within thirty (30) days after submission of each annual report, Operator shall meet with Owner to review and discuss the report and any other aspects of Project operations that Owner may wish to discuss.

- (c) **Litigation, Permit Lapses:** Upon obtaining knowledge thereof, Operator shall promptly notify Owner in writing of: (i) any event of default under any of the Project Agreements; (ii) any litigation, claims, disputes or actions, threatened or filed, concerning the Project or the Services; (iii) any refusal or threatened refusal to grant, renew or extend (or any action pending or threatened that might affect the granting, renewal or extension of) any license, permit, warranty, approval, authorization or consent relating to the Project or the Services; and (iv) any dispute with any governmental authority relating to the Project or the Services.
- (d) **Other Information:** Operator shall promptly submit to Owner any material information concerning new or significant aspects of the Project's activities and, upon Owner's request, shall promptly submit any other information concerning the Project or the Services.

6.5 ADDITIONAL COMMUNICATIONS

Operator shall communicate certain additional events specified in Appendix C to Owner and third parties in accordance with the communication protocols set forth in Appendix C to this Agreement.

7 LIMITATIONS ON AUTHORITY

7.1 GENERAL LIMITATIONS

Notwithstanding any provision in this Agreement to the contrary, unless previously approved by Owner in writing or through Owner's approval of the Annual Budget, Operator and any employee, representative, contractor or other agent of Operator are prohibited from taking the specified actions with respect to the matters indicated below.

- (a) **Disposition of Assets:** Sell, lease, pledge, mortgage, convey, or make any license, exchange or other transfer or disposition of any property or assets of Owner, including any property or assets purchased by Operator where the purchase cost is a Reimbursable Cost;
- (b) **Contract:** Make, enter into, execute, amend, modify or supplement any contract or agreement (i) on behalf of, in the name of, or purporting to bind Owner or (ii) that prohibits or otherwise restricts Operator's right to assign such contract or agreement to Owner at any time;
- (c) **Expenditures:** Make or consent or agree to make any expenditure for equipment, materials, assets or other items which would be a Reimbursable Cost, except in conformity with the Annual Budget; provided, however, that solely in connection with actions taken by Operator pursuant to Sub-Clauses 3.8 (*Emergency*), 3.9 (*Extraordinary Circumstances*), Operator may, without prior approval from Owner, make limited expenditures outside the Annual Budget in accordance with those provisions;

- (d) **Other Actions:** Take or agree to take any other action that materially varies from the applicable Annual Project Operating Plan, Annual Budget or the requirements of any Project Agreement;
- (e) **Lawsuits and Settlements:** Settle, compromise, assign, pledge, transfer, release or consent to the compromise, assignment, pledge, transfer or release of, any claim, suit, debt, demand or judgment against or due by, Owner or Operator, the cost of which, in the case of Operator, would be a Reimbursable Cost hereunder, or submit any such claim, dispute or controversy to arbitration or judicial process, or stipulate in respect thereof to a judgment, or consent to do the same;
- (f) **Liens:** Create, incur or assume any lien upon the Project;
- (g) **Transactions on Behalf of Others:** Engage in any other transaction on behalf of Owner or any other person or entity not expressly authorized by this Agreement or that violates applicable Laws, this Agreement or any Project Agreement; or
- (h) **Agreements:** Enter into any agreement to do any of the foregoing.

7.2 EXECUTION OF DOCUMENTS

Any agreement, contract, notice or other document that is expressly permitted hereunder (or under written approval of Owner) to be executed by Operator shall be executed by the authorized representative of Operator or, subject to prior written notice to Owner, by such other representative of Operator who is authorized and empowered by Operator to execute such documents.

8 TERM AND TERMINATION

8.1 TERM

The term of this Agreement shall be from and including the date of this Agreement to and including *as mentioned in PCC*. Upon agreement of Owner and Operator, this Agreement may be extended for certain periods of agreed duration. This Agreement is subject to earlier termination pursuant to Sub-Clauses 8.2, 8.3, 8.4, 8.5 or 8.6.

8.2 IMMEDIATE TERMINATION BY OWNER

Subject to the terms of any Project Agreements, Owner may terminate this Agreement immediately:

- (i) upon the Bankruptcy of Operator; or
- (ii) upon the occurrence of a Force Majeure Event that is not remedied within one hundred and twenty (120) days of its initial occurrence. If the Agreement is terminated by Owner pursuant to Sub-Clause 8.2(i) or 8.2(ii), Operator shall be compensated for all Reimbursable Costs incurred by Operator to and including the date of termination. In addition, if the Agreement is terminated by Owner pursuant to Sub-Clause 8.2(ii), Operator shall be paid all unpaid Annual Operating Fees to and including the date of termination.

8.3 TERMINATION UPON NOTICE BY OWNER

- Subject to the terms of any Project Agreements, Owner may terminate this Agreement upon ten (10) days prior written notice to Operator in the event
- (i) that Operator violates, or consents to a violation of, any Laws applicable to the Services or the Project, where the violation has or may have a material adverse effect of the Project or Owner's interest, and Operator does not cure such violation within thirty (30) days (or, if not curable within thirty (30) days, within such period of time as is reasonably necessary, but in no event more than ninety (90) days, provided Operator diligently commences and pursues such cure and indemnifies Owner for all related costs, of whatever kind), or
 - (ii) of a material breach by Operator in the performance of the Services, if Operator does not cure such breach within thirty (30) days from the date of Operator's receipt of notice from Owner demanding cure (or, if not curable within thirty (30) days, within such period of time as is reasonably necessary, but in no event more than 90 days, provided Operator diligently commences and pursues such cure and indemnifies Owner for all related costs, of whatever kind). If the Agreement is terminated by Owner pursuant to this Sub-Clause 8.3, Operator shall be compensated for all Reimbursable Costs incurred by Operator and all unpaid Annual Operating Fees to and including the date of termination.

8.4 OTHER TERMINATION UPON NOTICE BY OWNER

Subject to the terms of any Project Agreements, Owner may terminate this Agreement with sixty (60) days prior written notice to Operator, upon the occurrence of :

- (a) a sale or transfer by Owner of its rights in the Project or a sale or transfer of all or substantially all of the assets of or interests in Owner, (b) Operator's Reimbursable Costs for Services exceeding the approved Annual Budget with respect to Reimbursable Costs, for any 2 consecutive Contract Years, where such overruns are the fault of, or due to the negligent operation of the Project by, Operator, (c) a determination by Owner that, for any reason, it no longer intends to continue operation of the Project or (d) a determination by Owner that it does not wish to extend this agreement pursuant to Sub-Clause 8.1. If the Agreement is terminated by Owner pursuant to this Section 8.4, Operator shall be compensated for all Reimbursable Costs incurred by Operator and all unpaid Annual Operating Fees to and including the date of such termination under this Sub-Clause 8.4.

8.5 TERMINATION BY OWNER WITHOUT CAUSE

In addition to its rights set forth in this Clause 8, subject to the terms of any Project Agreements, Owner reserves the right to terminate this Agreement without cause upon ninety (90) days written notice to Operator. If the Agreement is terminated by Owner pursuant to this Sub-Clause 8.5, Operator shall be compensated for all Reimbursable Costs incurred by Operator and all unpaid Annual Operating Fees to and including the date of such termination under this Sub-Clause 8.5. Such payments, together with the termination payment set forth in Sub-Clause 8.8, shall be Operator's sole remedy in respect of such termination and shall be made by Owner within 30 days of receipt of a final invoice from Operator.

8.6 TERMINATION BY OPERATOR

Subject to the terms of any Project Agreements, Operator may terminate this Agreement for cause upon fifteen (15) days prior written notice to Owner in the event of: (i) Owner's Bankruptcy; or (ii) Owner's failure to perform in a timely manner any of its material obligations under this Agreement and such failure is not cured within thirty (30) days of Owner's receipt of a notice from Operator demanding cure (or, if not curable within thirty (30) days, within such period of time as is reasonably necessary, but in no event more than 90 days, provided that Owner diligently commences and continues to pursue such cure).

8.7 PROJECT CONDITION AT END OF TERM

Upon expiration or termination of this Agreement, Operator shall remove its personnel from the Project. Operator shall leave the Project in as good condition as it was on the Effective Date, normal wear and tear and casualty excepted. Operator shall be paid all unpaid Reimbursable Costs. All special tools, improvements, inventory of supplies, spare parts, safety equipment, Operating Manuals and Procedures Manuals, operating logs, records and documents maintained by Operator pursuant to Sub-Clause 3.5 and any other items furnished on a Reimbursable Cost basis under this Agreement will be left at the Project and will become or remain the property of Owner without additional charge. Owner shall also have the right, in its sole discretion, to assume and become liable for

any contracts or obligations that Operator may have undertaken with third parties in connection with the Services. Operator shall cooperate in taking all reasonable steps requested by Owner required to effect the assumption of the contracts, provided that Owner agrees to indemnify and hold harmless Operator for all liabilities arising out of events and obligations arising from the assumption of contract rights and obligations after the date of any such assumption. Operator shall use commercially reasonable efforts to cooperate with Owner or a succeeding operator to assure that the Water Supply and Sanitation of the Project are not disrupted.

8.8 *TERMINATION PAYMENT*

- (a) In the event of a termination of this Agreement pursuant to the above Sub-Clauses 8.2 (ii), 8.4 (a), 8.4 (c), 8.4 (d) or 8.5, Operator shall be entitled, in addition to all other amounts due under this Agreement as of the date of termination, to a demobilization and cancellation payment equal to the total of all relocation and severance costs incurred with respect to Operator's employees and all costs Operator is at such time contractually or legally obligated to pay to its employees, or which are incurred with the prior written approval of Owner. Severance costs for each of Operator's employees shall be *as mentioned in PCC* for each year such employee has worked for Operator at the Project. Subject to Owner's right to conduct a subsequent audit and review pursuant to Sub-Clause 8.8(b), such amounts shall be due and payable by Owner within 30 days of Operator's submission of an invoice, which invoice shall include a statement of all such costs and expenses in the form and with the substantiation required by Sub-Clause 6.2(a). Owner shall pay any and all legal costs incurred by Operator to collect payments under this Sub-Clause 8.8.
- (b) **Audit.** Notwithstanding payment of any amount pursuant to this Section 8.8, Owner shall remain entitled to conduct a subsequent audit and review of all costs incurred and paid by Owner pursuant to this Section 8.8, together with any supporting documentation requested by Owner, for a period of 2 years from and after the date of such payment. If, pursuant to such audit and review, it is determined that any amount previously paid to Operator did not constitute, in whole or in part, a reimbursable item pursuant to this Sub-Clause 8.8, Owner may recover such amount from Operator plus interest at the Reference Rate calculated from the date such audit commences, or Owner may deduct or cause to be deducted such amount from any payment that may be due to Operator.

9 *WARRANTY*

9.1 *VENDOR'S WARRANTIES*

For Owner's benefit, Operator shall obtain from sellers of equipment, material, or services (other than the Services), warranties against defects in materials and workmanship to the extent such warranties are reasonably obtainable, and, to the extent of any such warranties actually obtained, Owner releases Operator from any further liability arising in respect of such equipment, material or services (other than the Services) to the extent such liability is covered by any such warranty. Operator itself

shall not be liable for any such warranties, or for any defects or damage caused by such equipment, material or services (other than the Services). Upon Owner's request, Operator agrees to take such steps as are necessary, short of litigation, to enforce said warranties. Each such warranty shall be enforceable by Owner for Owner's benefit or assignable by Operator to Owner without any further action or consent by or on the part of any third party. Unless otherwise requested, Operator shall administer such warranties and immediately notify Owner of any defects discovered or suspected that may be covered by such warranties. When requested, Operator shall assign any such warranty to Owner and assist Owner with the administration and enforcement of such warranty, or, if such warranty is not assignable to Owner, assist Owner with the administration and enforcement of such warranty.

10 INDEMNIFICATION AND LIABILITIES

10.1 INDEMNIFICATION

- (a) Indemnification by Operator: Operator shall indemnify, defend and hold harmless Owner, the members thereof, and their respective officers, directors, employees, agents, Affiliates and representatives (the "Owner Indemnified Parties"), from and against any and all claims (in whatever form and to the fullest extent permitted by law) arising out of or in any way connected with, but only to the extent of, any gross negligence, fraud or willful misconduct of Operator or anyone acting on Operator's behalf or under its instructions, in connection with this Agreement and Operator's obligations thereunder. Any costs or expenses incurred by Operator pursuant to its indemnity obligations under this Sub-Clause 10.1(a) shall be the sole responsibility of the Operator.
- (b) Indemnification by Owner: Owner shall indemnify, defend and hold harmless Operator, its officers, directors, employees, agents, Affiliates and representatives (the "Operator Indemnified Parties") from and against any and all claims (in whatever form and to the fullest extent permitted by law) arising out of or in any way connected with, but only to the extent of, any gross negligence, fraud or willful misconduct of Owner or anyone acting on Owner's behalf or under its instructions (other than Operator and its suppliers, subcontractors, vendors, and their subcontractors and vendors and any employee or agent of the foregoing), in connection with this Agreement and Owner's obligations thereunder.

10.2 ENVIRONMENTAL LIABILITY

- (a) Operator Liability: Operator shall not be responsible for claims directly or indirectly related to hazardous materials present at the Project before the date of this Agreement, except to the extent Operator acted with respect to such materials in a grossly negligent manner. Owner shall defend, indemnify and hold Operator harmless against such claims, except to the extent such claims arise from Operator's grossly negligent or intentional acts.
- (b) Owner's Liability: Owner shall not be responsible for claims directly related to hazardous materials at the Project arising out of the grossly negligent or intentional acts of Operator. This provision of the Agreement shall not be

construed to require Operator to take corrective action with respect to any hazardous materials at the Project before the date of this Agreement.

- (c) **Governmental Actions:** If action is required at the Project to comply with any applicable environmental laws during the term of this Agreement, Owner (with Operator's assistance) shall be responsible for the costs of compliance. Costs for such compliance action shall only be incurred by Operator only with Owner's prior written consent, unless a governmental authority requires Operator to incur such costs and expenses prior to obtaining such written consent.

11 LIMITATIONS OF LIABILITY

11.1 LIMITATIONS OF LIABILITY

- (a) **Consequential Damages:** Notwithstanding any provision in this Agreement to the contrary, Operator and Owner each agree not to assert against the other any claim, demand or suit for consequential, incidental, indirect or special damages arising from any aspect of the performance or nonperformance of the other party or any third-party engaged by such other party under this Agreement, and each party hereto waives any such claim, demand or suit against the other in connection with this Agreement.
- (b) **Damages Limited to Annual Operating Fee:** The aggregate liability of Operator [except for those claims that are subject to the provisions of Sub-Clause 10.1(a) (*Indemnification by Operator*)] shall in no event exceed, during any Contract Year, the Annual Operating Fee payable to Operator during such Contract Year plus the amount necessary to satisfy Operator's indemnification responsibilities under Clause 10.
- (c) **Limited Personal Liability :** Operator and Owner each understand and agree that there shall be absolutely no personal liability on the part of any of the members, partners, officers, employees, directors, agents, authorized representatives or Affiliates of Owner or Operator for the payment of any amounts due hereunder, or performance of any obligations hereunder. Operator shall look solely to the assets of Owner for the satisfaction of each and every remedy of Operator in the event of any breach by Owner. Owner shall look solely to the assets of Operator for the satisfaction of each and every remedy of Owner in the event of any breach by Operator.
- (d) **Survival:** The parties further agree that the waivers and disclaimers of liability, indemnities, releases from liability, and limitations on liability expressed in this Agreement shall survive termination or expiration of this Agreement, and shall apply at all times (unless otherwise expressly indicated), regardless of fault, negligence, strict liability, or breach of warranty of the party indemnified, released or whose liabilities are limited, and shall extend to the members, partners, principals, officers, employees, controlling persons, executives, directors, agents, authorized representatives, and affiliates of such party.

- (e) **Exclusivity.** The provisions of this Agreement constitute Operator's and Owner's exclusive liability, respectively, to each other, and Operator's and Owner's exclusive remedy, respectively, with respect to the Services to be performed hereunder and Owner hereby releases Operator performing Services hereunder, and Operator hereby releases Owner performing its obligations hereunder, from any further liability.

12 CONFIDENTIALITY

12.1 Operator

Operator agrees to hold in confidence for a period *as mentioned in PCC* from the date of disclosure, any information supplied to Operator by Owner or others acting on its behalf. Operator further agrees, to the extent requested by the supplier of such information, to require its subcontractors, vendors, suppliers and employees to enter into appropriate nondisclosure agreements relative to such information, prior to the receipt thereof.

12.2 Owner

Owner agrees to hold in confidence for a period *as mentioned in PCC* from the date of disclosure, any information supplied to Owner by Operator or others acting on its behalf, provided that Owner may disclose such information as is reasonably necessary but without affecting the proprietary (intellectual property) rights, if any of the Operator or others. Owner further agrees, to the extent requested by the supplier of such information, to require its members and contractors to enter into such appropriate nondisclosure agreements relative to such information, prior to their receipt thereof.

12.3 Exceptions

The provisions of this Clause shall not apply to information that was in the public domain, was already in the receiving party's possession, or was received lawfully and free of any obligation to treat it as confidential.

12.4 Required Disclosure

If a receiving party or any of its respective representatives is required by applicable law to disclose any of the information that is otherwise required to remain confidential pursuant to this Clause 12, the receiving party will notify the other party promptly in writing so that the other party may seek a protective order or other appropriate remedy (which the receiving party will not oppose), or, in the other party's sole discretion, waive compliance with the terms of this Agreement.

13 TITLE, DOCUMENTS AND DATA

13.1 Materials and Equipment

Title to all materials, equipment, tools, supplies, consumables, spare parts and other items purchased or obtained by Operator on a Reimbursable Cost basis hereunder shall pass immediately to and vest in Owner upon the passage of title from the vendor or supplier thereof, provided, however, that such transfer of title shall in no way affect Operator's obligations as set forth in this Agreement.

13.2 Documents

All materials and documents prepared or developed by Operator, its employees, representatives or contractors in connection with the Project or performance of the Services, including all manuals, data, drawings, plans, specifications, reports and accounts, shall become Owner's property when prepared, and Operator, its agents, employees, representatives, or contractors shall not use such materials and documents for any purpose other than performance of the Services, without Owner's prior written approval. All such materials and documents, together with any materials and documents furnished to Operator, its agents, employees, representatives, or contractors by Owner, shall be delivered to Owner upon expiration or termination of this Agreement and before final payment is made to Operator.

13.3 Review By Owner

All materials and documents referred to in Sub-Clause 13.2 hereof shall be made available for review by Owner (including their agents or advisors) at all reasonable times during development and promptly upon completion. All such materials and documents required to be submitted for approval by Owner shall be prepared and processed in accordance with the requirements and specifications set forth in the Administrative Procedures Manual. However, Owner's approval of materials and documents submitted by Operator shall not relieve Operator of its responsibility for the correctness thereof or of its obligation to meet all requirements of this Agreement.

13.4 Proprietary Information

Where materials or documents prepared or developed by Operator or its agents, employees, representatives or contractors contain proprietary information, systems, techniques, or know-how acquired from third parties by Operator or others acting on its behalf, such persons or entities shall retain all rights to use or dispose of such information, provided, however, that Owner shall have the right to the same to the extent necessary for Water Supply & Sanitation of the Project.

14 RESOLUTION OF DISPUTES

14.1 Resolution Through Discussions

If any dispute or difference of any kind (a Dispute") arises between Owner and Operator in connection with, or arising out of, this Agreement, the Owner and Operator within thirty (30) days shall attempt to settle such Dispute in the first instance through discussions. The designated representatives of Owner and Operator shall promptly confer and exert their best efforts in good faith to reach a reasonable and equitable resolution of such Dispute. If the representatives are unable to resolve the Dispute within five (5) calendar days, the Dispute shall be referred within two (2) calendar days of the lapse of the five (5) calendar day period to the responsible senior management of each party for resolution. Neither party shall seek any other means of resolving any Dispute arising in connection with this Agreement until the responsible senior management of Owner and Operator have had at least five (5) Business Days to resolve the Dispute following referral of the Dispute to them. If the parties are unable to resolve the Dispute using the procedure described in this Clause, either party may deliver notice to the other party of its intent to submit the Dispute to arbitration ("Arbitration Notice"). The Arbitration Notice shall include the specific issues concerning the Dispute which must be resolved by the arbitration.

14.2 Arbitration

Any Dispute arising out of, or in connection with, this Agreement and not settled by the procedure prescribed in Sub-Clause 14.1, shall (regardless of the nature of the Dispute) be finally settled in accordance with Arbitration Act 1940 as amended or any statutory modification or re-enactment thereof for the time being in force the place of arbitration shall be *as mentioned in PCC*.

14.3 Continued Performance

During the pendency of any arbitration, Operator and Owner shall continue to perform their obligations under this Agreement.

CLAUSE 15 MISCELLANEOUS PROVISIONS

15.1 Assignment

Neither Owner nor Operator party may assign its rights or obligations under this Agreement without the prior written consent of the other party hereto, except that this Agreement may be assigned by Owner without such prior consent to any successor of Owner, to a person or entity acquiring all or substantially all of the Project, or any purchaser of the Project upon the exercise of remedies under a Project Agreement.

15.2 Access to Project

(a) Owner: Owner, and their respective agents and representatives shall have access at all times to the Project and any documents, materials and records and accounts relating to Project operations for purposes of inspection and review. Upon the request of Owner, or their respective agents and representatives, Operator shall make available to such persons or entities and provide them with access to any operating data and all operating logs.

(b) Cooperation: During any such inspection or review of the Project, each of Owner, and their respective agents and representatives shall use its reasonable commercial efforts to cause authorized visitors to comply with Operator's safety and security procedures and to conduct such inspection and review in a manner which causes minimal interference with Operator's activities. Operator agrees to cooperate fully with Owner, and their respective agents and representatives in providing requested information and documentation for the support of any financial or legal transactions associated with the Project.

15.3 Force Majeure

If either Owner or Operator is rendered wholly or partially unable to perform its obligations under this Agreement (other than payment obligations) due to a Force Majeure Event, the party affected by such Force Majeure Event shall be excused from whatever performance is impaired by such Force Majeure Event, provided that the affected party promptly, upon learning of such Force Majeure Event and ascertaining that it will affect its performance hereunder, (i) promptly gives notice to the other party stating the nature of the Force Majeure Event, its anticipated duration, and any action being taken to avoid or minimize its effect and (ii) uses its reasonable commercial efforts to remedy its inability to perform. The suspension of performance shall be of no greater scope and no longer duration than that which is necessary. No obligations of either party which arose before the occurrence causing the suspension of performance and which could and should have been fully performed before such occurrence shall be excused as a result of such occurrence. The burden of proof shall be on the party asserting excuse from performance due to a Force Majeure Event.

15.4 Amendments

No amendments or modifications of this Agreement shall be valid unless evidenced in writing and signed by duly authorized representatives of both parties.

15.5 Survival

Notwithstanding any provisions herein to the contrary, the obligations set forth in Clauses 7, 10, 12 and 14, and the limitations of liabilities set forth in Clause 11, shall survive in full force despite the expiration or termination of this Agreement.

15.6 No Waiver

It is understood and agreed that any delay, waiver or omission by Owner or Operator with respect to enforcement of required performance by the other under this Agreement shall not be construed to be a waiver by Owner or Operator of any subsequent breach or default of the same or other required performance on the part of Owner or Operator.

15.7 Notices

All notices and other communications (collectively "Notices") required or permitted under this Agreement shall be in writing and shall be given to each party at its address or fax number set forth in this Sub-Clause 15.8 or at such other address or fax number as hereafter specified as provided in this Section 15.8. All Notices shall be:

- (i) delivered personally, or
- (ii) sent by fax, electronic mail, telegraph, registered or certified mail (return receipt requested and postage prepaid), or
- (iii) sent by a nationally recognized overnight courier service. Notices shall be deemed to have been given
 - (A) when transmitted if sent by fax, electronic mail, or telegraph (provided the transmittal is confirmed), or
 - (B) upon receipt by the intended recipient if given by any other means.

Notices shall be sent to the following addresses:

To Operator:

[As mentioned in the Contract Agreement]

To Owner:

[As mentioned in the Contract Agreement]

15.8 Fines and Penalties

If during the term of this Agreement any governmental or regulatory authority or agency assesses any fines or penalties against Operator or Owner arising from Operator's failure to operate and maintain the Project in accordance with applicable Laws without Owner's prior written consent, such fines and penalties shall, subject to the limitations set forth in Clause 11, be the sole responsibility of Operator and shall not be deemed a Reimbursable Cost.

15.9 Representations and Warranties

Each party represents and warrants to the other party that:

- (a) such party has the full power and authority to execute, deliver and perform this Agreement and to carry out the transactions contemplated hereby;
- (b) to the best of such party's knowledge, the execution, delivery and performance by such party of this Agreement, does not and will not materially conflict with any legal, contractual, or organizational requirement of such party; and
- (c) there are no pending or threatened legal, administrative, or other proceedings that if adversely determined, could reasonably be expected to have a material adverse effect on such party's ability to perform its obligations under this Agreement.

15.10 Counterparts

The parties may execute this Agreement in counterparts, which shall, in the aggregate, when signed by both parties constitute one instrument. Thereafter, each counterpart shall be deemed an original instrument as against any party who has signed it.

15.11 Governing Law

This Agreement is executed and intended to be performed *as mentioned in PCC* and the laws of country shall govern its construction, interpretation and effect.

15.12 Partial Invalidity

If any term, provision, covenant or condition of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the rest of this Agreement shall remain in full force and effect and in no way be affected, impaired or invalidated.

15.13 Captions

Titles or captions of Clauses contained in this Agreement are inserted as a matter of convenience and for reference, and do not affect the scope or meaning of this Agreement or the intent of any provision hereof.

15.14 Amounts

All amounts of money in this Agreement are denominated in the currency *as mentioned in PCC*.

15.15 Performance Security

The successful Bidder shall furnish to the owner a Performance Security to the Employer in the prescribed form. The said Security shall be furnished by the Contractor within 07 days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 5% of the Contract Price stated in the Letter of Acceptance. Such Security shall, at the option of the bidder, be in the form of either (a) bank guarantee from any Scheduled Bank in Pakistan or (b) bank guarantee from a bank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan. The cost of complying with requirements of this Sub-Clause shall be borne by the operator / Contractor.

**PARTICULAR CONDITIONS
OF
CONTRACT**

PARTICULAR CONDITIONS OF CONTRACT

1 AGREEMENT

- 1.2 *Effective date is the signing date of contract agreement between the owner and the operator for the purpose of this **Construction of Water Supply Scheme Base On (Slow Sand Filtration System), Drainages System I/C Paver Block and Solar Street Lights In Various Villages Of U,C Sanjar Chang U,C Landhi And Dariya Khan Mari District Tando Allahyar(NON –ADP)** contract based on two party agreement, the term owner constitute as Secretary, Public Health Engineering & Rural Development Department, Government of Sindh & the term operator / contractor is constitute as representative of contractor / operator.*
- 1.3 *The owner may hire a consultant who will perform the function of monitoring / vetting / evaluating the performance of contractor specified in consultancy contract of the project or as well as any other assignment assigned to consultancy firm in relation to this contract agreement.*
- 1.3.1 *Any subsequent Document mutually agreed and signed by the owner and operator shall be the part of contract agreement.*

2 DEFINITIONS

Business day of Pakistan are Monday to Friday, Time 9:00 AM To 5:00 PM. The projects means **Construction of Water Supply Scheme Base On (Slow Sand Filtration System), Drainages System I/C Paver Block and Solar Street Lights In Various Villages Of U,C Sanjar Chang U,C Landhi And Dariya Khan Mari District Tando Allahyar(NON –ADP)**

Location of the Project is in all districts of Sindh Province.
This is two party agreement.

5 COMPENSATION AND PAYMENT

- 5.2 Upon satisfactory performance of Water Supply & Sanitation reflected through performance certificate issued by the owner. The owner pay the monthly amount of derived on pro rata basis from the schedule of prices.

The escalation factor and its calculation method for the subsequent year after the first year will be based on the either of the following:-

- I. Inflection factor of 10% will be applicable for the subsequent years of O&M or escalation factor formula of Pakistan Engineering Council (PEC). The owner will decide the use of escalation factor.

8 TERM AND TERMINATION

- 8.1 The term of this agreement is initially for a period of 1 year effective from the date of signing of agreement / issuance of work order. The contract is extendable for a period of further 4 years (Total 5 years) subject to the issuance of satisfactory performance certificate issued by the owner.

This agreement is subject to earlier termination pursuant to Sub Clauses 8.2, 8.3, 8.4, 8.5 or 8.6.

- 8.8 Severance cost for each of operator employee shall not be more than the salary of the employer mentioned in the breakdown of the itemized cost in appendices B to Bid, if provided, otherwise no severance cost will be paid by the owner.

12 CONFIDENTIALITY

- 12.1 The operator keep the confidentiality for a period of 10 years.
- 12.2 The owner keep the confidentiality for a period of 5 years.

14 RESOLUTION OF DISPUTES

- 14.2 The place for arbitration shall be Karachi Sindh *Pakistan..*

15 MISCELLANEOUS PROVISIONS

- 15.7 Mention the complete address of Owner

Attn: Name of representative designated pursuant to Sub-Clause 1.4
Mention the complete address of Operator

To be filled upon award of contract

- 15.11 Governing Law will be *Islamic Republic of Pakistan.*
- 15.14 Amounts of money shall be dominated in currency of *Islamic Republic of Pakistan Rupees* .
- 15.15 The Performance Security shall be of an amount equal to 5% of the Contract Price stated in the Letter of Acceptance. Such Security shall, at the option of the bidder, be in the form of either (a) bank guarantee from any Scheduled Bank in Pakistan or (b) bank guarantee from a bank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan. The cost of complying with requirements of this Sub-Clause shall be borne by the operator / Contractor.

STANDARD FORMS

STANDARD FORMS

- Form of Bid Security
- Form of Contract Agreement
- Form of Performance Security
(Bank Guarantee/Insurance Bond)
- Form of Bank Guarantee for Advance Payment

FORM OF BID SECURITY

(Bank Guarantee)

Guarantee No. _____

Executed on _____

Expiry date _____

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

Name of Principal (Bidder) with address: _____

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

Bid Reference No. _____ Date of Bid Opening _____

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

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

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

- (1) that the Bid Security shall remain valid for a period 28 days beyond the period of validity of the Bid;
- (2) that in the event of;
 - (a) the Principal withdraws his Bid during the period of validity of Bid, or
 - (b) the Principal does not accept the correction of his Bid Price, pursuant to Sub-Clause 24.2 of Instructions to Bidders, or
 - (c) failure of the successful bidder to
 - (i) furnish the required Performance Security, in accordance with Clause 34 of Instructions to Bidders, or
 - (ii) sign the proposed Contract Agreement, in accordance with Clause 35 of Instructions to Bidders,

then the entire sum be paid immediately to the said Owner as liquidated damages and not as penalty for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said Owner in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety , as may be required, upon the form prescribed by the said Owner for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

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

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

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

Witness:

1. _____

Corporate Secretary (Seal)

2. _____

(Name, Title & Address)

Guarantor (Bank)

Signature _____

Name _____

Title _____

Corporate Guarantor (Seal)

FORM OF CONTRACT AGREEMENT

This AGREEMENT (hereinafter called the "Agreement") is made and entered into the ____ day of _____ (month) 20____ by and between **/Legal name, form and country of Project Owner/** (hereinafter called the "Owner"), and **/Legal name, form and country ofl** (hereinafter called the "Operator").

WHEREAS, Owner owns and desires to contract for the Project,

WHEREAS, Operator provides said work and management services for **Projects** and has agreed to provide those services for the Project on the terms and conditions set forth in this Agreement,

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Award;
 - (c) The completed Form of Bid;
 - (d) The Particular Conditions of Contract;
 - (e) The General Conditions of Contract;
 - (f) The priced Schedule of Prices;
 - (g) Completed Appendices to Bid ;
 - (i) The Specifications-Technical and Special Provisions
 - (h) The Drawings;
 - (i) any other
3. In Consideration _____ Operator Covenants _____

4. The Owner hereby covenants _____

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

/Legal Name of Owner /

By: _____

Witness: _____

Name:
Title:
Seal:

Name:
Address:

/Legal Name of Operator/

By: _____

Witness: _____

Name:
Title:
Seal:

Name:
Address:

FORM OF PERFORMANCE SECURITY
(Bank Guarantee/ Insurance Bond)

Guarantee No. _____
Executed on _____
Expiry date _____

Name of Guarantor (Bank/Approved Insurance Company) with
address: _____

Name of Principal (Contractor) with address: _____

Penal Sum of Security (express in words and figures)

Letter of Acceptance No. _____ Dated _____

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

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

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Owner, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Sub-Clause 8.7, Project Condition at End of Term,, , of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

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

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

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

Guarantor (Bank/Approved Insurance Co.)

Witness:

1. _____

Signature _____

Corporate Secretary (Seal)

Name _____

Title _____

2. _____

Name, Title & Address

Corporate Guarantor (Seal)

FORM OF BANK GUARANTEE FOR ADVANCE PAYMENT

Guarantee No. _____
Executed on _____
Expiry date _____

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

_____ (Particulars of Contract), with

_____ (hereinafter called the Contractor).

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

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

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

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

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

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

This guarantee shall expire not later than _____
by which date we must have received any claims by registered letter, telegram, telex or telefax.

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

Witness:

1. _____

Corporate Secretary (Seal)

2. _____

Name, Title & Address

Guarantor (Bank)

Signature _____

Name _____

Title _____

Corporate Guarantor (Seal)

SPECIFICATIONS SPECIAL PROVISIONS

The Specification of the *Construction of Water Supply Scheme Base On (Slow Sand Filtration System), Drainages System I/C Paver Block and Solar Street Lights In Various Villages Of U,C Sanjar Chang U,C Landhi And Dariya Khan Mari District Tando Allahyar*(NON –ADP) or equivalent or higher than the specification of the said work.

SPECIFICATIONS TECHNICAL PROVISIONS

The technical provision of the *Construction of Water Supply Scheme Base On (Slow Sand Filtration System), Drainages System I/C Paver Block and Solar Street Lights In Various Villages Of U,C Sanjar Chang U,C Landhi And Dariya Khan Mari District Tando Allahyar(NON –ADP)*

BIDDING DATA

The following specific data for the works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders

Instructions to Bidders

Clause Reference

1.1	Name of Procuring Agency :	Executive Engineer Public Health Engineering Division Tando Allahyar
	Description of Works :	<i>Construction of Water Supply Scheme Base On (Slow Sand Filtration System), Drainages System I/C Paver Block and Solar Street Lights In Various Villages Of U,C Sanjar Chang U,C Landhi And Dariya Khan Mari District Tando Allahyar(NON – ADP)</i>
	Estimate Cost	Rs.763.492 M
	Completion period	24-Months
5.1 (a)	Procuring Agency's address:	Address: Office of Executive Engineer PHED Tando Allahyar Court Road Near Shah Abdul Latif Park Tando Allahyar
10.3	Bid shall be quoted entirely in : The payment shall be made in :	Pak Rupees Pak Rupees
11.2	The bidder has the Financial, Technical and constructional capability necessary to perform the Contract as follows:	Mentioned in NIT and advertised in News Papers
12.1	Bidder shall furnish documentation as set out in Bidding Data	A detailed description of the Works, essential technical and performance characteristics:
13.1	Amount of Bid Security:	Rs.38.175 million
14.1	Period of Bid Validity:	90 Days
14.4	Number of copies of the bid to be completed and returned:	One (01) Original
14.6	Procuring Agency's Address for the Purpose of Bid Submission	Address: Office of Executive Engineer PHED Tando Allahyar Court Road Near Shah Abdul Latif Park Tando Allahyar

15.1 Deadline for submission of bids:

Tenders will be received upto dated
06-04-2026 at 02:30 PM

16.1 Venue, time, and date of bid opening:

Venue: Office of the Executive Engineer
Public Health Engineering Division
Tando Allahyar located near Court Road
Near Shah Abdul Latif Park Tando Allahyar
Time: **03.00 PM** Date: **06/ 04/2026**

16.4 Responsiveness of Bids:

- (i) Bid is valid till required period,
- (ii) Bid prices are Price adjustment
- (iii) Completion period offered is within specified limits,
- (iv) Bidder is eligible to Bid and possesses the requisite experience, capability and qualification.
- (v) Bid does not deviate from basic technical requirements and
- (vi) Bids are generally in order, etc.



EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG:(DEV) DIVISION
TANDO ALLAHYAR

DRAWINGS

BILL OF QUANTITY								
(B) DESCRIPTION AND RATE OF ITEMS BASED ON COMPOSITE								
SHEDULE OF RATES								
NAME OF WORK :-		CONSTRUCTION OF WATER SUPPLY SCHEME BASE ON (SLOW SAND FILTRATION SYSTEM), DRAINAGE SYSTEM I/C PAVER BLOCK AND SOLAR STREET LIGHTS IN VARIOUS VILLAGES OF UC SANJAR CHANG, UC LANDHI AND UC DARYA KHAN MARI DISTRICT TANDO						
WATER SUPPLY SCHEME WITH SLOW SAND FILTRATION FOR ZONE-A								
Ite m	Quantity	Discription of Item to be execute on site			Rate	Unit	Amount	
1	2	3			4	5	6	
PART-1 PUMPING MACHINERY AT INTAKE WORKS (ZONE-A)								
1	2.00	Set	Providing and instaning in position i/c transportation at Intake Works scheme Sanjar Chang electric pumping set consist of electric motor 20.0 BHP 3-Phase 50 Cycle 400/420 Vols of 1450 RPM (Siemens) frame size 160 L coupled with Centrifugal Etanorm pump KSB Etanorm type (125-100-315) size 5" x 4" mounted on common steel frame or base plate capable discharge of 420 GPM against the Head of 85 ft i/c installing of pumping set on C.C foundation i/c provoding & installing prpared board automatic MCU (KSB) consist of A.C 50 Cycles 3Phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relayni/c fixing metaled board to accomodate main or submaincontrol switch recessed in the wall and testing of the pumping set against the required head & discharge per 72 hours etc complete. (N.S)			1219260.0	P.Set	2438520/-
2	1.00	Set	Providing and installing in position i/c transportation at site work for Sanjar CXhang 36.0 BHP Deisel engine 2200 RPM coupled with non-clogingl pump KSB type ETA NORM(125-100-315) size 5" x 4" mounted on common steel frame or base plate capable discharge of 420 GPM against the Head of 85 ft i/c installing of pumping set on C.C foundation and testing of the pumping set against the required head & discharge per 72 hours etc complete. (N.S).			846830.0	P.Set	846830/-
3	85.00	Rft	Manufacturing & installing M.S pipe made out of M.S sheet of 3/16" thick cutting and folding to required curvature and shape i/c welding etc complete (R.A based on Schedule) 6" Dia			3391.86	P.Rft	288308/-
4	16.00	Nos.	Providing & Fixing M.S Flange Made out of M.s Plate having thickness 3/8" Drilling holes cutting etc complete 6" Dia			3769.00	Each	60304/-
5	4.51	Cwt	C.I Bend, Trapper & Tee with Flange ends with holes i/c tuning & facing of flange for all size			18288.00	P.Cwt	82479/-
6	1.00	No.	C.I Short piece 6" Dia			3900.00	Each	3900/-
7	3.00	Nos.	C.I foot valve heavy pattern with cone type gate. 6" Dia			14800.00	Each	44400/-
8	3.00	Nos.	C.I Sluice valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/s q.inch). 4" Dia			9500.00	Each	28500/-
9	3.00	Nos.	C.I Reflex valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/sq.inch).(imported). 4" Dia			8550.00	Each	25650/-
10	72.00	Rft	Providing & laying (MAIN or SUB-MAIN) PVC insulated with size 03-7/0.44 (6mm2) copper conductor in 3/4" dia PVC conduit on surface			1329.97	P.Rft	95758/-
11	1.00	Nos.	Providing and fixing earthing set with 2'x2'x1.4" copper plate buried in ground at a depth of 12' or less of water come out from the ground level with salt and charcoal etc			30191.00	Each	30191/-
12			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete					
	12.00	Joints	(i) 4" dia			1701.02	P.Joint	20412/-
	10.00	Joints	(ii) 6" Dia			2383.38	P.Joint	23834/-
Total (1)							3989086/-	

PART-2 PUMP HOUSE 12'X 14'						
1	275.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	3267/-
2	135.78	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	40285/-
3	220.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	85507/-
4	440.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	46851/-
5	378.94	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	144444/-
6	133.08	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	95497/-
7	5.94	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removeal of rust from bars.) tor bar	18271.01	P.Cwt	108530/-
8	24.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	26978/-
9	0.857	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	17454/-
10	0.857	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	707/-
11	242.34	Cft	Filling watering and ramming earth under floor with surplus earth from foundation lead upto one chain and lift upto 5 ft.	6.50	P.Cft	1575/-
12	28.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	76355/-
13			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	305.25	Sft	1" Thick	65.57	P.Sft	20015/-
	168.00	Sft	2" Thick	108.75	P.Sft	18270/-
14	1379.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	52099/-
15	1379.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	51037/-
16	2758.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	62414/-
17	1379.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	4951/-
18	639.00	Sft	Distemper 2 Coats	13.66	P.Sft	8729/-
19	638.50	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	40213/-
20	104.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	2654/-
Total						907832/-
Total (2) for 3 Pump House 3 x 907832						2723496/-

PART-3 SHED FOR GENERATOR 10'X 12'						
1	626.20	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	7439/-
2	189.81	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	56315/-
3	310.41	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	222747/-
4	12.47	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removeal of rust from bars.) tor bar	18271.01	P.Cwt	227839/-
5	144.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	55968/-
6	288.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	30666/-
7	331.11	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	126213/-
8	372.33	Cft	Filling watering and ramming earth under floor with surplus earth from foundation lead upto one chain and lift upto 5 ft.	6.50	P.Cft	2420/-
9			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	239.25	Sft	1" Thick	65.57	P.Sft	15688/-
	120.00	Sft	3" Thick	145.00	P.Sft	17400/-
10	1091.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	41218/-
11	1091.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	40378/-
12	2182.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	49379/-
13	1091.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	3917/-
14	340.00	Sft	Distemper 2 Coats	13.66	P.Sft	4644/-
15	505.50	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	31836/-
16	36.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	40468/-
17	1.286	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	26191/-
18	1.286	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	1061/-
19	64.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2", 3/8"and 3/4" square bars 4" centre to centre with locking arangemtnt.	2726.96	P.Sft	174525/-
20	200.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	5104/-
Total (3)						1181416/-

PART-4 RISING MAIN 8" Dia (225mm)						
1	1226.25	Cft	Dismantling and removing road metalling.	26.93	P.Cft	33023/-
2	71718.75	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	1311593/-
3	8500.00	Rft	Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051. 8" Dia 255mm	2015.38	Rft	17130730/-
4	2.00	Nos.	P.E Special for P.E Pressure Pipe standard wet for ACIL B Class. P.E Elbow 45o(PN-08) 8" Dia 255mm	8386.00	Each	16772/-
4	8.00	Nos.	P.E Elbow 90o(PN-08) 8" Dia 255mm	10483.00	Each	83864/-
5	4.00	Nos.	HDPE-100 FLANGE ADOPTOR / STAB ENDS (PN-10) 8" Dia 255mm	10202.00	Each	40808/-
6	1.00	No.	HDPE-100 Equal Tee (outer dia) 8" Dia 255 mm	12581.00	Each	12581/-
7	4.00	Nos.	Supply Single Acting Air valve over PVC & P.E Pipe of required dia comprising of MS Puddle Collar tee required size with 3/8" thick MS Plate 1-1/4: wide (1-No) MS Flange (3-Nos) 3/8" thick MS Sheet, MS Pipe of required size made out of 3/16"thick MS Sheet 3' long, Air Valve 3" Dia (1-No) MS Fabricated Ring comprising on 1/2" Dia bar 4" center rate also i/c C.I Plate fixed over top of pipe,also i/c rubber packing of the required thickness nuts bolts with washer and painting of pipes & special etc complete.Double Acting 8" Dia 255 mm	22880.00	Each	91520/-
8	24.00	Nos.	But Fusion Joint. 8" Dia	2808.00	Each	67392/-
9	64547.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	905001/-
10	4.00	Nos.	Providing Chamber 3'x2' (915x615 mm) inside diamension 4 1/2' (1372 mm) deep as per approved design for sluice valve 3" to 12" dia with 18" (457 mm) dia inside cost iron cover and frame (wt=1 cwt 3 qr) fixed in RCC 1:2:4 (102 mm) thick (with 5 Lbs steel per cft) 9" (299 mm) thick burnt brick masonary wall set in 1:6 cement mortar 6" (1152 mm) thick cement concrete 1:3:6 in foundation 1" (25 mm) thick cement concrete1:3:6 in foundation 1" (25 mm) thick cement concrete 1:2:4 flooring 1/2" (12.5 mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S footrest at every one foot beyond 2 1/2 ft depth curing, excavation, back filling and disposal of surplus earthetc. complete.	63209.83	Each	252839/-
Total (4)						19946123/-
PART-5 SOLAR ENERGY SYSTEM AT INTAKE						
1	23400.00	Watts	550-650 watt Mono-Perc Grade-A Tier 1 Solar Panels(Bi-Facial, N-Type or equivalent) (n.s)	42.00	P.watt	982800/-
2	1.00	No.	VFD Drive Off Gride 30 KW 3 Phase.(N.S)	210000.00	Each	210000/-
3	23400.00	Watts	Ms Mounting Frame (16 Guage) 3" Circle Pipes for Base & 3" x 1-1/2" Rectangular Pipes Double Paint Coated. Electrical & Solar Accessories for System (AC Cables, DC Cables, Battery Cables, AC & DC Circuit Breakers, Changeovers, Electric Panels, Bus Bar, PVC Piping, Ducting, Fitting & Misc. Items) Approximately Will be Charged as Per Actual after Completion) I/c Transportation Expenses (N.S)	55.00	P.watt	1287000/-
4	23400.00	Watts	Complete Engineering Installation * 3 Months of Free Services or 2 troubleshooting visits. (N.S)	16.00	P.watt	374400/-
Total (5)						2854200/-

PART-6 ALUM DOSING CHAMBER						
1	123.75	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	1470/-
2	8.17	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	2424/-
3	3.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	1331/-
4	76.13	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	54630/-
5	2.71	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removeal of rust from bars.) tor bar	18271.01	P.Cwt	49514/-
6	81.50	Sft	Cement plaster 1:4 upto 12' hieight 1/2" Thick.	39.83	P.Sft	3246/-
7	81.50	Sft	Laying glazed tiles 1/4" thick floor of approved color & size jointing in white cement and laid over 1:2 cement sand mortor 3/4" thick including grouting with matching color and finishing	325.40	P.Sft	26520/-
Total (6)						139135/-
PART-7 STORAGE TANK 200' X 105' 2 NOS.						
1	90000.00	Sft	Jungle clearance and removing within 100 feet Thick	0.79	P.Cft	71100/-
2	179676.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	15849.60	P.%0Cft	2847793/-
3	137934.00	Cft	Excavation for tanks and reservoirs in wet soil or clay or mud i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	24993.60	P.%0Cft	3447467/-
5	15.00	Days	Hire charges of pumping set of upto 10 H.P pumping out water from 10 ft. deep trench.	7468.80	P.Day	112032/-
6	24183.00	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	7174854/-
7	23709.00	Cft	Coursed Rubble masonry hammer dressed in Cement sand mortar in Cement Sand Mortar (1:4	294.49	P.Cft	6982063/-
8	11015.00	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering.	443.54	P.Cft	4885593/-
9	514.50	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	54784/-
10	9760.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	368733/-
11	9760.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	361218/-
12	19520.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	441738/-
13	1676.00	Sft	Pointing flush on stone work raised (ii) In cement mortar 1:3	54.07	P.Sft	90621/-
14	18661.50	Cft	Earth work compaction (Soft, ordinary or hard soil)(b) Laying earth in 6" layers levelling dressing and watering for compaction etc. complete.	1.58	P.Cft	29485/-
15	298948.50	Cft	Extra for every 50 ft. additional lead or part thereof (This rate shall apply to lead upto half mile, when the lead is more than half mile the lead shall be paid as carriage of material by mechanical means.) lead 1 mile.	753.43	P.%Cft	2252368/-
Total (7)						29119849/-

PART-8 PUMPING MACHINERY AT WATER WORKS (ZONE-A)						
SUB-GROUP-I PUMPING MACHINERY AT STORAGE TANKS (ZONE-A)						
1	2.00	Set	Providing and installing in position i/c transportation at Intake Works scheme Sanjar Chang electric pumping set consist of electric motor 10.0 BHP 3-Phase 50 Cycle 400/420 Vols of 1450 RPM (Siemens) frame size 132 M coupled with Centrifugal Etanorm pump KSB Etanorm type (100-80-200) size 4" x 3" mounted on common steel frame or base plate capable discharge of 420 GPM against the Head of 50 ft i/c installing of pumping set on C.C foundation i/c provoding & installing prpared board automatic MCU (KSB) consist of A.C 50 Cycles 3Phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relayi/c fixing metaled board to accomodate main or submaincontrol switch recessed in the wall and testing of the pumping set against the required head & discharge per 72 hours etc complete (M.S)	874950.0	P.Set	1749900/-
3	59.00	Rft	Manufacturing & installing M.S pipe made out of M.S sheet of 3/16" thick cutting and folding to required curvature and shape i/c welding etc complete (R.A based on Schedule)	2300.06	P.Rft	135704/-
4	16.00	Nos.	Providing & Fixing M.S Flange Made out of M.s Plate having thickness 3/8" Drilling holes cutting etc complete 4" Dia	2889.00	Each	46224/-
5	1.303	Cwt	C.I Bend, Trapper & Tee with Flange ends with holes i/c tuning & facing of flange for all size	18288.00	P.Cwt	23829/-
6	1.00	No.	C.I Short piece 6" Dia	3900.00	Each	3900/-
7	2.00	Nos.	C.I foot valve heavy pattern with cone type gate. 4" Dia	7200.00	Each	14400/-
8	2.00	Nos.	C.I Sluice valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/s q.inch). 4" Dia	9500.00	Each	19000/-
9	2.00	Nos.	C.I Reflex valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/sq.inch).(imported). 4" Dia	8550.00	Each	17100/-
10	72.00	Rft	Providing & laying (MAIN or SUB-MAIN) PVC insulated with size 03-7/0.44 (6mm2) copper conductor in 3/4" dia PVC conduit on surface	1329.97	P.Rft	95758/-
11	1.00	Nos.	Providing and fixing earthing set with 2'x2'x1.4" copper plate buried in ground at a depth of 12' or less of water come out from the ground level with salt and charcoal etc	30191.00	Each	30191/-
12			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	18.00	Joints	(i) 4" dia	1701.02	P.Joint	30618/-
Total Sub Group I						2166624/-

SUB-GROUP-II PUMPING MACHINERY AT CLEAR WATER TANKS (ZONE-A)						
1	2.00	Set	Providing and installing in position i/c transportation at Intake Works scheme Sanjar Chang electric pumping set consist of electric motor 10.0 BHP 3-Phase 50 Cycle 400/420 Vols of 1450 RPM (Siemens) frame size 132 M coupled with Centrifugal Etanorm pump KSB Etanorm type (100-80-200) size 4" x 3" mounted on common steel frame or base plate capable discharge of 420 GPM against the Head of 50 ft i/c installing of pumping set on C.C foundation i/c providing & installing prpared board automatic MCU (KSB) consist of A.C 50 Cycles 3Phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relayni/c fixing metaled board to accomodate main or submaincontrol switch recessed in the wall and testing of the pumping set against the required head & discharge per 72 hours etc	1841610.0	P.Set	3683220/-
3	65.00	Rft	Manufacturing & installing M.S pipe made out of M.S sheet of 3/16" thick cutting and folding to required curvature and shape i/c welding etc complete (R.A based on Schedule)	2300.06	P.Rft	149504/-
4	16.00	Nos.	Providing & Fixing M.S Flange Made out of M.s Plate having thickness 3/8" Drilling holes cutting etc complete	2889.00	Each	46224/-
5	1.790	Cwt	C.I Bend, Trapper & Tee with Flange ends with holes i/c tuning & facing of flange for all size	18288.00	P.Cwt	32736/-
6	1.00	No.	C.I Short piece 8" Dia	5200.00	Each	5200/-
7	2.00	Nos.	C.I foot valve heavy pattern with cone type gate. 4" Dia	7200.00	Each	14400/-
8	2.00	Nos.	C.I Sluice valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/s q.inch). 3" Dia	8200.00	Each	16400/-
9	2.00	Nos.	C.I Reflex valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/sq.inch).(imported). 3" Dia	6500.00	Each	13000/-
10	72.00	Rft	Providing & laying (MAIN or SUB-MAIN) PVC insulated with size 03-7/0.44 (6mm2) copper conductor in 3/4" dia PVC conduit on surface	1935.39	P.Rft	139348/-
11	1.00	Nos.	Providing and fixing earthing set with 2'x2'x1.4" copper plate buried in ground at a depth of 12' or less of water come out from the ground level with salt and charcoal etc	30191.00	Each	30191/-
12			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	8.00	Joints	(i) 3" dia	1562.07	P.Joint	12497/-
	20.00	Joints	(i) 4" dia	1701.02	P.Joint	34020/-
Total Sub Group II						4176740/-
Total 8						6343364/-
PART-9 RISING MAIN 8" Dia (225mm) ST to F.BEDS						
1	1054.69	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	19288/-
2	125.00	Rft	Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051. 8" Dia 255mm	2015.38	Rft	251923/-
3	2.00	Nos.	P.E Special for P.E Pressure Pipe standard wet for ACIL B Class. P.E Elbow 45o(PN-08) 8" Dia 255mm	8386.00	Each	16772/-
4	1.00	Nos.	P.E Elbow 90o(PN-08) 8" Dia 255mm	10483.00	Each	10483/-
5	1.00	No.	HDPE-100 Equal Tee (outer dia) 8" Dia 255 mm	12581.00	Each	12581/-
6	6.00	Nos.	But Fusion Joint. 8" Dia	2808.00	Each	16848/-
7	949.22	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	13309/-
Total (9)						341204/-

PART-10 SLOW SAND FILTER 45' X 75' 2 NOS.						
1	23328.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	15849.60	P.%0Cft	369739/-
2	7776.00	Cft	Excavation for tanks and reservoirs in wet soil or clay or mud i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	24993.60	P.%0Cft	194350/-
3	24883.20	Cft	Earth work compaction (Soft, ordinary or hard soil)(b) Laying earth in 6" layers levelling dressing and watering for compaction etc. complete.	1.58	P.Cft	39315/-
4	5832.00	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	1730296/-
5	5937.19	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	2633381/-
6	11275.81	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	8091408/-
7	3375.00	Cft	precast reinforced cement in colum, beams lintels stairs cases, shelves etc. (Il) Ratio 1 : 2:4 90 Lbs	689.28	P.Cft	2326320/-
8	739.64	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	13513970/-
9	3375.00	Cft	Erecting and fixing in position precast cement concrete or stone charges. slab in roofs or lintels, etc, lift upto 20 feet including all charges.	126.23	P.Cft	426026/-
10	11509.25	Sft	Cement plaster 1:4 upto 12' hieight 3/4" Thick.	53.82	P.Sft	619428/-
11	459.21	Lbs	Supplying of pudlo 50 lbs	158.80	P.Lb	72923/-
12	1407.00	Rft	Providing construction joint in concrete work of 9" wide corrugated PVC (with bulb) i/cutting of planks to the exact shape of structure and cost of the material and labour etc complete.	586.09	P.Rft	824629/-
13	63.00	Kgs	Supplying of CI Tapper flanged bottomed or central tapered flanged and with holes i/c turning and facing of flanges for all size	360.00	P.Kg	22680/-
14	6750.00	Cft	Supplying and stacking at site stone metal of size 3/4" -1 1/2"(19mm to 38mm) ring i/c screening washing and spreading the same in filter beds to correct level etc complete.	13288.80	P.%Cft	896994/-
15	6750.00	Cft	Supplying and stacking at site gravel of size 1/8" - 1/4" (80mm to 160mm)ring i/c screening washing and spreading the same in filter beds to correct level etc complete.	11384.40	P.%Cft	768447/-
16	16875.00	Cft	Supplying and stacking at site filter sand for slow sand filters of effective size 0.25mm to 0.4mm i/c double screening washing and spreading the same in filter beds to correct level etc complete.	21752.40	P.%Cft	3670718/-
17	40.00	Rft	(11) Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of cutting trench upto 2 2/1 ft depth refilling, watering remaining and disposal of surplus earth with 1 Chain and Painting 2 coat of bitumen 2 pipes and special after cloth soaked in maxphalt composition wrapped tightly around pipes and testing to presure head of 200ft. 6"dia G.I Pipe I/C all fitting Etc.	2384.82	P.Rft	95393/-

19	93.05	Kgs	Providibg & Fixing C.I standard 90 Degree bends in trenches, and testing with water to a pressure head of 200 ft 6" dia	360.00	P.Kg	33498/-
20	2.00	Nos.	C.I Sluice valve heavy pattern (Test Pressure 21.0 kg/sq.cm or 300 lb/sq.inch) 16" Dia	17500.00	Each	35000/-
21	8.00	Joints	Jointing C.I/M.S flanged pipes and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts, bolts with washers etc,and other tools required for jointing and testing the joints to the specified pressure etc complete. 6" dia	2383.38	P.Joint	19067/-
22	200.00	Rft	Providing,Laying & Fixing in trench i/c fitting, jointing & 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. 12 " Dia 315mm	3843.97	P.Rft	768794/-
20	4.00	Nos.	HDPE-100 UN-EQUAL TEE (outer dia) 315 x 90 x 315	17080.00	Each	68320/-
23	8.00	Joints	Butt Fussion joint. 315mm	3432.00	Each	27456/-
Total (10)						37248152/-
PART-11 CLEAR WATER TANK 20' X 40'						
1	5625.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain 0' to 5'	15849.60	P.%0Cft	89154/-
2	5625.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	24993.60	P.%0Cft	140589/-
3		Cft	Add for additional lift of every three ft or part there of in item No.1 to 15 (A&B) for excavation for pipelines & storage tanks trenches and pits.			
	3375.00	Cft	5' to 8'	5616.00	P.%0Cft	18954/-
	2250.00	Cft	8' to 11'	11232.00	P.%0Cft	25272/-
4	843.75	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	250332/-
5	200.00	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	88708/-
6	3274.12	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	2349476/-
7	175.40	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar (11	18271.01	P.Cwt	3204735/-
8	1935.00	Sft	Cement plaster 1:4 upto 12' hieight 1/2" Thick.	39.43	P.Sft	76297/-
9	1935.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	43789/-
10	49.45	Lbs	Supply Dampo for mixing with cement plaster for water proof 3.5 lbs per bag etc	350.00	P.Lb	17308/-
11	378.00	Rft	Providing construction joint in concrete work of 9" wide corrugated PVC (with bulb) i/cutting of planks to the exact shape of structure and cost of the material and labour etc complete.	586.09	P.Rft	221542/-
12	4.00	Nos.	P/F C.I ventilator (weight not less than 80 Lbs/each) in tank roof of approved design with water tight joint i/c painting etc complete.	19970.09	Each	79880/-
13	2.00	Nos.	Providing C.I Manhole Cover & Frame i/c Cost of Material etc.	19188.00	Each	38376/-
14	30.00	Rft	P/F in position in C.C foundation 1:3:6 M.S ladder of M.S angle iron 2"x2"x1/4" 1' apart with M.S bar 3/4" dia spaced 1' apart painting 3 coats with anticorrosive steel paint etc complete.	4200.24	P.Rft	126007/-
15	1125.00	Sft	Water proofing layer over the domical or flat roof slab of the HSR in 2 coats of bitumen laid hot using 34 Lbs for % Sft and blending with sand at 1 Cft. Per % Sft.	15084.08	P.%Sft	169696/-
Total (11)						6940115/-

PART-12 DIESEL GENERATOR 150 KVA						
1	1.00	Nos.	Supplying Installing & Commissioning Diesel Generator Set PERKINS (Model EPG165) (U.K) or Equivalent made Engine 1106A 70TAG2 Output Prime 150 KVA Output Standby 165 KVA 415/220 Volt, 3 Phase, 4 Wire, 50HZ, Power Factor 0.8 at 1500 RPM with 4 Cylendor Vertical in Line-4 Stroke Water Cooled, direct coupled with standard accessories and Base Frame having built in Fuel Tank, complete Exhaust system and with safety device like speed control, Oil pressure and many more Safety more devices, Providing Alternator Leroy Somer-France/Meccatle-UK/ Stamford-UK, sound proof and Wheather proof for 150 KVA Generator Canopy i/c Providig Control Pannel Deep Sea Model DSE-6020 etc complete, transportation with loading unloading at ground, Rubber Pads underneath to control vibration of Generator, Misc. Material like PVC Pipe, Flexible Pipe, Tape, Coolant etc and Battery for 150 KVA Generator, Fuel Sensor with Confugurator i/c Providing & Fixing Earthing arrangements and Testing the Diesel Generator for 24	7869290	P.Set	7869290/-
Total (12)						7869290/-
PART-13 SOLAR ENERGY SYSTEM AT WATER WORKS						
1	67860.00	Watts	550-650 watt Mono-Perc Grade-A Tier 1 Solar Panels(Bi-Facial, N-Type or equivalent) (n.s)	42.00	P.watt	2850120/-
2	1.00	No.	VFD Drive Off Gride 75 KW 3 Phase.(N.S)	450000.00	Each	450000/-
3	67860.00	Watts	MS Mounting Frame (16 Guage) 3" Circle Pipes for Base & 3" x 1-1/2" Rectangular Pipes Double Paint Coated. Electrical & Solar Accessories for System (AC Cables, DC Cables, Battery Cables, AC & DC Circuit Breakers, Changeovers, Electric Panels, Bus Bar, PVC Piping, Ducting, Fitting & Misc. Items) Approximately Will be Charged as Per Actual after Completion) I/c Transportation Exnenses (N.S)	55.00	P.watt	3732300/-
4	67860.00	Watts	Complete Engineering Installation * 3 Months of Free Services or 2 troubleshooting visits. (N.S)	16.00	P.watt	1085760/-
Total (5)						8118180/-
PART-14 DELIVERY MAIN 8" Dia (225mm) & 6" DIA (160mm)						
1	126562.50	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	2314575/-
2			Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051.			
	1000.00	Rft	8" Dia 255mm	2015.38	Rft	2015380/-
	15000.00	Rft	6" Dia 160mm	1011.05	Rft	15165750/-
3	2.00	Nos.	P.E Special for P.E Pressure Pipe standard wet for ACIL B Class. P.E Elbow 45o(PN-08) 6" Dia 160mm	4246.00	Each	8492/-
4			P.E Elbow 90o(PN-08)			
	2.00	Nos.	P.E Elbow 90o(PN-08) 8" Dia 255mm (11	10483.00	Each	20966/-
	6.00	Nos.	P.E Elbow 90o(PN-08) 6" Dia 160mm	5306.00	Each	31836/-
5			HDPE-100 FLANGE ADOPTOR / STAB ENDS (PN-10)			
	6.00	Nos.	8" Dia 255mm	10202.00	Each	61212/-
	4.00	Nos.	6" Dia 160mm	5164.00	Each	20656/-
6	1.00	No.	HDPE-100 Equal Tee (outer dia) 8" Dia 255 mm	12581.00	Each	12581/-
7	8.00	Nos.	Supply Singre Acting Air valve over PVC & P.E Pipe of required dia comprising of MS Puddle Collar tee required size with 3/8" thick MS Plate 1-1/4: wide (1-No) MS Flange (3-Nos) 3/8" thick MS Sheet, MS Pipe of required size made out of 3/16"thick MS Sheet 3' long, Air Valve 3" Dia (1-No) MS Fabricated Ring comprising on 1/2" Dia bar 4" center rate also i/c C.I Plate fixed over top of pipe,also i/c rubber packing of the required thickness nuts bolts with washer and painting of pipes & special etc complete.Double Acting 6" Dia 255 mm	21450.00	Each	171600/-

8	2.00	Nos.	Reducer 225 x 160	8710.00	Each	17420/-
9	24.00	Nos.	But Fusion Joint. 8" Dia	2808.00	Each	67392/-
10	113906.25	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	1597057/-
11	8.00	Nos.	Providing Chamber 3'x2' (915x615 mm) inside diamension 4 1/2' (1372 mm) deep as per approved design for sluice value 3" to 12" dia with 18" (457 mm) dia inside cost iron cover and frame (wt=1 cwt 3 qr) fixed in RCC 1:2:4 (102 mm) thick (with 5 Lbs steel per cft) 9" (299 mm) thick burnt brick masonary wall set in 1:6 cement mortar 6" (1152 mm) thick cement concrete 1:3:6 infoundation 1" (25 mm) thick cement concrete1:3:6 in foundation 1" (25 mm) thick cement concrete 1:2:4 flooring 1/2" (12.5 mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S footrest at every one foot beyond 2 1/2 ft depth curing, excavation, back filling and disposal of surplus earthetc. complete.	63209.83	Each	505679/-
Total (14)						22010596/-
<u>PART-15 DISTRIBUTION SYSTEM</u>						
1	164580.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	3009839/-
2			Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051.			
	13000.00	Rft	4" Dia	505.07	Rft	6565910/-
	12000.00	Rft	3" Dia	343.71	Rft	4124520/-
3			C.I Sluice valve heavy pattern (Test Pressure 21.0 kg/sq.cm or 300 lb/sq.inch)			
	3.00	Nos.	4" Dia	9500.00	Rft	28500/-
	3.00	Nos.	3" Dia	8200.00	Rft	24600/-
4			C.I Sluice valve heavy pattern (Test Pressure 21.0 kg/sq.cm or 300 lb/sq.inch)			
	20.00	Nos.	4" Dia Bend 90	2524.00	Rft	50480/-
	15.00	Nos.	4" Dia Tee	3029.00	Rft	45435/-
	10.00	Nos.	4" Dia End Plug	730.00	Rft	7300/-
	20.00	Nos.	3" Dia Bend 90	1709.00	Rft	34180/-
	10.00	Nos.	3" Dia Tee	2048.00	Rft	20480/-
	15.00	Nos.	3" Dia End Plug	490.00	Rft	7350/-
5			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	6.00	Joints	(i) 4" dia	1701.02	P.Joint	10206/-

	6.00	Joints	(i) 3" dia	1562.07	P.Joint	9372/-
6			Flange Adapter			
	6.00	Nos.	(i) 3" dia	2416.00	Each	14496/-
	6.00	Nos.	(i) 4" dia	2464.00	Each	14784/-
7			But Fusion Joint			
	51.00	Nos.	(i) 4" dia	1560.00	Each	79560/-
	61.00	Nos.	(i) 3" dia	936.00	Each	57096/-
8	148122.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	2076789/-
Total (15)						16180897/-
PART-16 COMPOUND WALL (300' x 300') zone A						
1	3594.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	42697/-
2	896.25	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	265908/-
3	4732.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	1839186/-
4	9464.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	1007727/-
5	1950.71	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	743572/-
6	86.00	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	61713/-
7	3.46	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	63218/-
8	10011.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	378216/-
9	10011.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	370507/-
10	20022.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	453098/-
11	72.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	196341/-
12	10011.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	35939/-
13	10011.00	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	630493/-
14	156.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	3981/-
Total (16)						6092596/-

PART-17 STAFF QUARTERS						
GROUP-A STAFF QUARTER TYPE-III						
SUB-GROUP-I STAFF QUARTER						
1	868.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	10312/-
2	217.00	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	64382/-
3			Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering.			
	602.00	Cft	Ratio 1:3:6	388.67	P.Cft	233979/-
	958.00	Cft	Ratio 1:2:4	348.83	P.Cft	334179/-
4	1204.50	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	128255/-
5	1395.00	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	531746/-
6	13.50	Cft	Add Extra Labor in item No.5 for brick work in first floor in cement sand mortor (1:6)	398.27	P.Cft	5377/-
7	1149.12	Cft	Filling watering and ramming earth under floor with new earth (Excavated from outside) lead up to one chain and lift up to 5 feet	19.01	P.Cft	21845/-
8	593.96	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	426220/-
9	26.51	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	484364/-
10	958.00	Sft	Providing and laying topping 2" thick cement concrete 1:2:4 including surface finishing and dividing into panels.	108.75	P.Sft	104183/-
11	912.93	Sft	Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.	65.57	P.Sft	59861/-
12	4719.25	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	174659/-
13	4719.25	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	178293/-
14	4719.25	Sft	Priming Coats of chalk distemper	3.59	P.Sft	16942/-
15	4719.25	Sft	Distemper 2 Coats	13.66	P.Sft	64465/-
16	9.200	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	187371/-
17	9.200	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	7589/-
18	173.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	194469/-
19	515.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	13143/-
Total Sub- Group-I						3241634/-

SUB-GROUP-II ELECTRIC FITTING						
1	7.00	Jobs	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required	6364.33	P.Job	44550/-
2	1.00	No.	Wiring for call bell point with 3/.029 PVC insulated wire in 20mm (3.4") conduit on surface as required.	6331.76	Each	6332/-
3	3.00	Nos.	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required.	3816.06	Each	11448/-
4	70.00	Rft	Providing & laying (Main or Sub Main) PVC insulated with size 3-7-3/.029 copper conductor in ¾" dia PVC conduit on surface	667.06	P.Rft	46694/-
5	1.00	No.	Providing & fixing three pin 10/15amp plug & socket flush type.	677.36	P.Cft	677/-
6	1.00	No.	Providing & fixing earthing set (1'x1') copper plet i/c excavation of rock earth 12' depth or if water comes out i/c salt/choracale mixed with G.I pipe with nut bolt testing topping etc complete.	30191.00	P.Cft	30191/-
7	2.00	Nos.	Providing & fixing Brass Battern holder.	1152.61	P.Cft	2305/-
8	63.00	Rft	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/.044(6mm2) copper conductor in 1" Dia PVC conduit on surface.	671.52	P.Rft	42306/-
9	2.00	Nos.	Providing & fixing circuit breaker 6, 10 , 15, 20,30,40,50 & 63 DP (TB-5S)on prepared board as reuquired.	5528.57	Each	11057/-
10	2.00	Nos.	Providing & fixing A.C Electric Ceiling fan 56"	14869.21	Each	29738/-
11	8.00	Nos.	Providing & fixingenergy saver 20 watts. (N.S)	400.00	Each	3200/-
Total Sub- Group-II						228498/-
SUB-GROUP-III SANITARY FITTING						
1	1.00	No.	Providing and fixing nat black tipped front urinal basin (or not less than 17 " in height) of white glazed earthen ware complete with & including the cost of ½ " dia gun metal gate valve with standard flush pipe , waste pipe (enameled iron) complete with fitting and making requisite number of holes in walls , plinth & floor for pipe connection & making good in cement concrete 1:2:4 .(Standard pattern)	4464.14	Each	4464/-
2	1.00	No.	Providing and fixing 24x18" lavatory basin in white glazed carthen ware complete with &e including the cost of W.I. or C.I. cantilever bracket 6 inches built into wall, painted white in two coats after a primary coat of red lead paint, a pair of ½" dia chrome plated pillar taps, 1-1/2" rubber plug & chrome plated brass chain 1-1/4" dia malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Standard Pattern) (Karam Ceramics).	9495.14	Each	9495/-
3	1.00	Nos.	Providing and fixing 6"x2" or 6"x3" C.I. floor trap of the approved self cleaning design with a C.I. screwed down grating with or without a vent arm including cost of making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4	1647.07	Each	1647/-
4	1.00	Nos.	Providing and fixing in position, nylon connection complete with " dia brass stop cock with pair of brass nuts and lining jointed to nylon connection.	637.65	Each	638/-
5	1.00	No.	Providing and fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long C.P. brass screws.	2700.01	P.Cft	2700/-
6	1.00	No.	Supplying & fixing soap tray of superior quality and design with fine finishing with C.P. screws etc. complete.	585.00	P.Cft	585/-
7	4.00	Nos.	Providing & fixing M.S. clamps of the approved design to 3" dia C.I. pipe socket including the cost of cutting and making good and extra painting to match the colour of the building.	427.96	P.Cft	1712/-
8			Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of breaking through walls and roof making good etc. painting 2 coats after cleaning the pipe etc. with white zinc paint with pigment to match the colour of the building and testing with water to a pressure bead of 200 feet and handling			
	40.00	Rft	1" Dia	503.70	P.Rft	20148/-
	50.00	Rft	3/4" Dia	334.05	P.Rft	16703/-
	100.00	Rft	1/2" Dia	275.55	P.Rft	27555/-

9			Providing and Fixing Handle Value.			
	1.00	Nos.	1" Dia	1907.10	Each	1907/-
	3.00	Nos.	3/4" Dia	1848.60	Each	5546/-
	3.00	Nos.	1/2" Dia	1614.60	Each	4844/-
10	48.00	Rft	Providing, Laying RCC pipes & Collars of Class 'B' and fixing in trench i/c cutting, fitting and jointing with max phalt composition and cement mortar (1:1)i/c testing with water to a head of 22.5 meter or 75 (6" Dia)	332.29	P.Rft	15950/-
11	1.00	Nos.	Providing and fixing steel sinks stainless local bt make complete with cast iron or wrought iron LINA ALVH brackets 6 inches built into wall, 1-1/2" rubber plug and chrome plated brass chain 1-1/2" C.P. brass waste wwith 1 1/2" P.V.C. waste pipe & making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.(b) Steel Sink stainless size 36"x18" local make (standard patteren)	10215.27	Each	10215/-
12	1.00	No.	Providing & fixing 15"x12" bavelled edge mirror of Belgium glass completed with 1/8" thick hard and C.P. screws fixed to wooden cleats (Standard quality).	2340.00	Each	2340/-
13	1.00	No.	Supplying & fixing wash basin mixture of superior quality with C.P. head 1/2" dia.	3135.60	Each	3136/-
14	1.00	Nos.	Supplying & fixing jet shower with rod of superior quality with C.P. head 1/2" dia	3486.60	Each	3487/-
15	1.00	No.	Supplying & fixing Sink mixture cock of superior quality with C.P. head etc. complete	2550.60	P.Rft	2551/-
16	6.00	No.	Supplying & fixing long Bib -cock of Crystal head with C.Phead 1/2" dia	2784.60	P.Cft	16708/-
17			S/F PE (PRR) TEE (M.P) (N.S)			
	6.00	Nos.	1" Dia	176.00	Each	1056/-
	6.00	Nos.	3/4" Dia	96.00	Each	576/-
	6.00	Nos.	1/2" Dia	68.80	Each	413/-
18			S/F PE (PRR) elbow /socket union (N.S)			
	6.00	Nos.	Elbow 1/2" Dia	85.00	Each	510/-
	3.00	Nos.	Elbow 3/4" Dia	110.00	Each	330/-
	3.00	Nos.	Elbow 1" Dia	120.00	Each	360/-
	6.00	Nos.	Socket 1/2" Dia	85.00	Each	510/-
	3.00	Nos.	Socket 3/4" Dia	110.00	Each	330/-
	3.00	Nos.	Socket 1" Dia	120.00	Each	360/-
	6.00	Nos.	Union 1/2" Dia	120.00	Each	720/-
	8.00	Nos.	Union 3/4" Dia	150.00	Each	1200/-
	8.00	Nos.	Union 1" Dia	210.00	Each	1680/-
19	1.00	Nos.	Supplying & fixing Fiber glass tank of approved quality and design and wall thickness as specified including cost of nuts, bolts and fixing in plat form of cement concrete 1:3:6 and making connection for inlet, outlet and over flow pipes etc. complete. 500 gallons	69982.85	P.Cft	69983/-
20	1.00	Nos.	P/F A.C Electric Motor with donkry pump 1/2 BHP etc complete. (N.S)	19800.00	Each	19800/-
Total Sub- Group-III						250159/-

Total Group-A						
Total Sub- Group-I					3241634/-	
Total Sub- Group-II					228498/-	
Total Sub- Group-III					250159/-	
Total Group-A					3720291/-	
GROUP-B STAFF QUARTER HUT TYPE						
SUB-GROUP-I STAFF QUARTER						
1	326.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	3873/-
2	142.00	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	42130/-
3	317.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering.	388.67	P.Cft	123208/-
4	728.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	77517/-
5	364.25	Cft	Filling watering and ramming earth under floor with surplus earth (Excavated from outside) lead up to one chain and lift up to 5 feet	6.50	P.Cft	2368/-
6	456.00	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	173818/-
7	157.11	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	112741/-
8	7.01	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	128080/-
9	49.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	133621/-
10	0.857	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	17454/-
11	0.857	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	707/-
12	24.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	26978/-
13			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	192.00	Sft	2" Thick	108.75	P.Sft	20880/-
	358.88	Sft	1" Thick	65.57	P.Sft	23532/-
14	1745.13	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	64587/-
15	1745.13	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	65931/-
16	3490.26	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	78985/-
17	146.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	3726/-
18	1745.13	Sft	Priming Coats of chalk distemper	3.59	P.Sft	6265/-
19	1745.13	Sft	Distemper 2 Coats	13.66	P.Sft	23838/-
Total Sub- Group-I					1130239/-	

SUB-GROUP-II ELECTRIC FITTING						
1	2.00	Jobs	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required	6364.33	P.Job	12729/-
2	3.00	Nos.	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required.	3816.06	Each	11448/-
3	40.00	Rft	Providing & laying (Main or Sub Main) PVC insulated with size 3-7-3/.029 copper conductor in ¾" dia PVC conduit on surface	684.64	P.Rft	27386/-
4	1.00	No.	Providing & fixing three pin 10/15amp plug & socket flush type.	677.36	P.Cft	677/-
5	1.00	Nos.	Providing & fixing Brass Battern holder.	1152.61	P.Cft	1153/-
6	63.00	Rft	Providing & laying (Main or Sub Main) PVC insulated with size 4-7/.036 copper conductor in 1" Dia PVC conduit on column	1240.76	P.Rft	78168/-
7	1.00	Nos.	Providing & fixing circuit breaker 6, 10 , 15, 20,30,40,50 & 63 DP (TB-5S)on prepared board as reuquired.	2504.12	Each	2504/-
8	1.00	Nos.	Providing & fixing A.C Electric Ceiling fan 56"	14869.21	Each	14869/-
9	3.00	Nos.	Providing & fixingenergy saver 20 watts. (N.S)	400.00	Each	1200/-
Total Sub- Group-II						150134/-
SUB-GROUP-III SANITARY FITTING						
1	1.00	No.	Providing and fixing 24"x18" lavatory basin inwhite glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket6 inches built into wall, painted white in two coatsafter a primary coat of red lead paint, a pair of 1-1/2" dia chrome plated pillar taps, 1-1/2" rubberplug & chrome plated brass chain 1-1/4" diamalleable iron or C.P. brass traps malleable iron orbrass unions and making requisite number of holesin walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign Equivalent)	24094.98	Each	24095/-
2	1.00	No.	Providing and fixing squatting type white glazed earthen ware W.C pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and requiste number of holes in walls plinth & floor for pipe connection & making good in cement concrete 1:2:4 Far.(23 inch	10440.50	Each	10441/-
3	1.00	Nos.	Providing and fixing 6"x2" or 6"x3" C.I. floor trap of the approved self cleaning design with a C.I. screwed down grating with or without a vent arm including cost of making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4	1647.07	Each	1647/-
4	1.00	Nos.	Providing and fixing in position nylon connection complete with " dia brass stop cock with pair of brass nuts and lining jointed to nylon connection.	637.65	Each	638/-
5			Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of breaking through walls and roof making good etc. painting 2 coats after cleaning the pipe etc. with white zinc paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet and handling			
	50.00	Rft	3/4" Dia	334.05	P.Rft	16703/-
	30.00	Rft	1/2" Dia	275.55	P.Rft	8267/-

6			Providing and Fixing Handle Value.			
	1.00	Nos.	3/4" Dia	1848.60	Each	1849/-
	1.00	Nos.	1/2" Dia	1614.60	Each	1615/-
7	1.00	Nos.	Providing chambers 15"x19" (inside dimension) x24" deep for house meters with 6" thick C.C. 1:2:4 blocks set in 1:6 cement mortar 6" thick C.C. 1:4:8 in foundation, " thick cement plaster 1:3 to all inside wall surfaces and to top 1" thick C.C. 1:2:4 fl.	9051.80	Each	9052/-
8	10.00	Rft	Providing R.C.C pipe with collars class 'B' (digging the trenches to required depth & fixing in position including cutting, fitting & jointing with asphalt composition & cement mortar 1:1 and testing with water pressure to a head of 4 ft. above the top. (6" Dia)	823.31	P.Rft	8233/-
9			Add Extra Labour for Concelled GI Pipe and Fitting i/c making reccess in the wall for pipe and making good in cement mortor etc complete			
	50.00	Rft	3/4" Dia	8.45	P.Rft	423/-
	30.00	Rft	1/2" Dia	7.82	P.Rft	235/-
10	2.00	No.	Supplying & fixing long Bib -cock of Crystal head with C.Phead 1/2" dia	2784.60	Each	5569/-
11			S/F PE (PRR) TEE (M.P) (N.S)			
	4.00	Nos.	3/4" Dia	96.00	Each	384/-
	4.00	Nos.	1/2" Dia	68.80	Each	275/-
12			S/F PE (PRR) elbow /socket union (N.S)			
	2.00	Nos.	Elbow 3/4" Dia	110.00	Each	220/-
	2.00	Nos.	Elbow 1/2" Dia	85.00	Each	170/-
	2.00	Nos.	Union 3/4" Dia	150.00	Each	300/-
	2.00	Nos.	Union 1/2" Dia	120.00	Each	240/-
13	2.00	No.	Supplying fixing G.I Nipple Tee. 3/4" dia	15.00	Each	30/-
14	1.00	Nos.	Supplying & fixing Fiber glass tank of approved quality and design and wall thickness as specified including cost of nuts, bolts and fixing in plat form of cement concrete 1:3:6 and making connection for inlet, outlet and over flow pipes etc. complete. 500 gallons	69982.85	P.Cft	69983/-
15	1.00	Nos.	P/F A.C Electric Motor with donkry pump 1/2 BHP etc complete. (N.S)	19800.00	Each	19800/-
Total Sub- Group-III						180169/-
Total Group-B						
Total Sub- Group-I						1130239/-
Total Sub- Group-II						150134/-
Total Sub- Group-III						180169/-
Total Group-B						1460542/-
Total Part-17						
Total Group-A						3720291/-
Total Group-B						1460542/-
Total Part-17						5180833/-

PART-18 SIGN BOARD						
1	1.00	No.	Providing & Fixing Rectangular shape 3'x2' comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each.	52117.78	Each	52118/-
Total (18)						52118/-
ABSTRACT OF ZONE-A						
Item	Quantity			Shedule Item	NSI	Total
1	PART-1 PUMPING MACHINERY AT INTAKE WORKS (ZONE-A)			703736.00	3285350.00	3989086/-
2	PART-2 PUMP HOUSE 12'X 14'			2723496.00	0.00	2723496/-
3	PART-3 SHED FOR GENERATOR 10'X 12'			1181416.00	0.00	1181416/-
4	PART-4 RISING MAIN 8" Dia (225mm)			19946123.00	0.00	19946123/-
5	PART-5 SOLAR ENERGY SYSTEM AT INTAKE			0.00	2854200.00	2854200/-
6	PART-6 ALUM DOSING CHAMBER			139135.00	0.00	139135/-
7	PART-7 STORAGE TANK 200' X 105' 2 NOS.			29119849.00	0.00	29119849/-
8	PART-8 PUMPING MACHINERY AT WATER WORKS (ZONE-A)			910244.00	5433120.00	6343364/-
9	PART-9 RISING MAIN 8" Dia (225mm) ST to F.BEDS			341204.00	0.00	341204/-
10	PART-10 SLOW SAND FILTER 45' X 75' 2 NOS.			37248152.00	0.00	37248152/-
11	PART-11 CLEAR WATER TANK 20' X 40'			6940115.00	0.00	6940115/-
12	PART-12 DIESEL GENERATOR 150 KVA			0.00	7869290.00	7869290/-
13	PART-13 SOLAR ENERGY SYSTEM AT WATER WORKS			0.00	8118180.00	8118180/-
14	PART-14 DELIVERY MAIN 8" Dia (225mm) & 6" DIA (160mm)			22010596.00	0.00	22010596/-
15	PART-15 DISTRIBUTION SYSTEM			16180897.00	0.00	16180897/-
16	PART-16 COMPOUND WALL (300' x 300') zone A			6092596.00	0.00	6092596/-
17	PART-17 STAFF QUARTERS			5127199.00	53634.00	5180833/-
18	PART-18 SIGN BOARD			52118.00	0.00	52118/-
TOTAL ZONE A				148716876.00	27613774.00	176330650/-

WATER SUPPLY SCHEME WITH SLOW SAND FILTRATION FOR ZONE-B						
Item	Quantity		Discription of Item to be execute on site	Rate	Unit	Amount
1	2		3	4	5	6
PART-1 FEEDING CHANNEL						
1	7000.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	83160/-
2			Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering.			
	1750.00	Cft	Ratio 1:4:8	348.83	P.Cft	610453/-
	500.00	Cft	Ratio 1:2:4	443.54	P.Cft	221770/-
3	3750.00	Cft	Pacca brick work in foundation and plinth in Cement Sand Mortar 1:6.	359.20	P.Cft	1347000/-
4	8500.00	Sft	Cement plaster 1:4 upto 12' hieight 1/2" Thick.	39.83	P.Sft	338555/-
5	8500.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	192355/-
6	42.00	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	30139/-
7	1.50	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	27407/-
Total 1						2850839/-
PART-2 ALUM DOSING CHAMBER						
1	123.75	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	1470/-
2	8.17	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	2424/-
3	3.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	1331/-
4	76.13	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	54630/-
5	2.71	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	49514/-
6	81.50	Sft	Cement plaster 1:4 upto 12' hieight 1/2" Thick.	39.83	P.Sft	3246/-
7	81.50	Sft	Laying glazed tiles 1/4" thick floor of approved color & size jointing in white cement and laid over 1:2 cement sand mortor 3/4" thick including grouting with matching color and finishing	325.40	P.Sft	26520/-
Total (6)						139135/-

PART-3 STORAGE TANK 165' X 85' 2 NOS.						
1	30000.00	Sft	Jungle clearance and removing within 100 feet Thick	0.79	P.Cft	23700/-
2	31227.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6” layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5’ft and lead upto one chain	15849.60	P.%0Cft	494935/-
3	96262.50	Cft	Excavation for tanks and reservoirs in wet soil or clay or mud i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6” layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5’ft and lead upto one chain	24993.60	P.%0Cft	2405946/-
5	15.00	Days	Hire charges of pumping set of upto 10 H.P pumping out water from 10 ft. deep trench.	7468.80	P.Day	112032/-
6	16180.00	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	4800444/-
7	19604.00	Cft	Coursed Rubble masonry hammer dressed in Cement sand mortar in Cement Sand Mortar (1:4	294.49	P.Cft	5773182/-
8	7601.50	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering.	443.54	P.Cft	3371569/-
9	498.25	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	53054/-
10	8000.00	Sft	Cement plaster 1:4 upto 12" hieight 3/8" Thick.	37.78	P.Sft	302240/-
11	8000.00	Sft	Cement plaster 1:6 upto 12" hieight 1/2" Thick	37.01	P.Sft	296080/-
12	8000.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	181040/-
13	1382.00	Sft	Pointing flush on stone work raised (ii) In cement mortar 1:3	54.07	P.Sft	74725/-
14	15464.25	Cft	Earth work compaction (Soft, ordinary or hard soil)(b) Laying earth in 6" layers levelling dressing and watering for compaction etc. complete.	1.58	P.Cft	24434/-
15	109442.75	Cft	Extra for every 50 ft. additional lead or part thereof (This rate shall apply to lead upto half mile, when the lead is more than half mile the lead shall be paid as carriage of material by mechanical means.) lead 1 mile.	753.43	P.%Cft	824575/-
Total (3)						18737956/-
PART-4 RISING MAIN 6" Dia (160mm) ST to F.BEDS						
1	984.37	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	18002/-
2	125.00	Rft	Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051. 6" Dia 160mm	1011.05	Rft	126381/-
3	2.00	Nos.	P.E Special for P.E Pressure Pipe standard wet for ACIL B Class. P.E Elbow 45o(PN-08) 6" Dia 160mm	4246.00	Each	8492/-
4	1.00	Nos.	P.E Elbow 90o(PN-08) 6" Dia 160mm ⁽¹²	5306.00	Each	5306/-

5	1.00	No.	HDPE-100 Equal Tee (outer dia) 6" Dia 160mm	6367.00	Each	6367/-
6	6.00	Nos.	But Fusion Joint. 6" Dia	1560.00	Each	9360/-
7	885.93	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	12421/-
Total (4)						186329/-
PART-5 PUMPING MACHINERY AT WATER WORKS (ZONE-B)						
SUB-GROUP-I PUMPING MACHINERY AT STORAGE TANKS (ZONE-B)						
1	2.00	Set	Providing and installing in position i/c transportation at Intake Works scheme Sanjar Chang electric pumping set consist of electric motor 10.0 BHP 3-Phase 50 Cycle 400/420 Vols of 1450 RPM (Siemens) frame size 160 M coupled with Centrifugal Etanorm pump KSB Etanorm type (100-80-200) size 4" x 3" mounted on common steel frame or base plate capable discharge of 420 GPM against the Head of 50 ft i/c installing of pumping set on C.C foundation i/c providing & installing prpared board automatic MCU (KSB) consist of A.C 50 Cycles 3Phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relayi/c fixing metaled board to accomodate main or submaincontrol switch recessed in the wall and testing of the pumping set against the required head & discharge per 72 hours etc complete. (M.S)	874950.0	P.Set	1749900/-
3	59.00	Rft	Manufacturing & installing M.S pipe made out of M.S sheet of 3/16" thick cutting and folding to required curvature and shape i/c welding etc complete (R.A based on Schedule) 4" Dia	2300.06	P.Rft	135704/-
4	16.00	Nos.	Providing & Fixing M.S Flange Made out of M.s Plate having thickness 3/8" Drilling holes cutting etc complete 4" Dia	2889.00	Each	46224/-
5	1.303	Cwt	C.I Bend, Trapper & Tee with Flange ends with holes i/c tuning & facing of flange for all size	18288.00	P.Cwt	23829/-
6	1.00	No.	C.I Short piece 6" Dia	3900.00	Each	3900/-
7	2.00	Nos.	C.I foot valve heavy pattern with cone type gate. 4" Dia	7200.00	Each	14400/-
8	2.00	Nos.	C.I Sluice valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/s q.inch). 4" Dia	9500.00	Each	19000/-
9	2.00	Nos.	C.I Reflex valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/sq.inch).(imported). 4" Dia	8550.00	Each	17100/-
10	72.00	Rft	Providing & laying (MAIN or SUB-MAIN) PVC insulated with size 03-7/0.44 (6mm2) copper conductor in 3/4" dia PVC conduit on surface	1329.97	P.Rft	95758/-
11	1.00	Nos.	Providing and fixing earthing set with 2"x2"x1.4" copper plate buried in ground at a depth of 12' or less of water come out from the ground level with salt and charcoal etc	30191.00	Each	30191/-
12			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	18.00	Joints	(i) 4" dia	1701.02	P.Joint	30618/-
Total Sub Group I						2166624/-
SUB-GROUP-II PUMPING MACHINERY AT CLEAR WATER TANKS (ZONE-B+A678)						
1	2.00	Set	Providing and installing in position i/c transportation at site work for intake Works scheme Missan Wadi taluka Jhando Mari tando allahyar electric pumping set consist of electric motor 40.0 BHP 3-Phase 50 Cycle 400/420 Vols of 2900 RPM (Siemens) frame size 200 L coupled with centrifugal ETA Norm pump KSB type (80-65-200) size 3" x 2.5" mounted on common steel frame or base plate capable discharge of 280 GPM against the Head of 285 ft i/c installing of pumping set on C.C foundation i/c providing & installing prpared board automatic MCU (KSB) consist of A.C 50 Cycles 3Phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relayi/c fixing metaled board to accomodate main or submaincontrol switch recessed in the wall and testing of the pumping set against the required head & discharge per 72 hours etc complete. (M.S)	1591350.0	P.Set	3182700/-
3	65.00	Rft	Manufacturing & installing M.S pipe made out of M.S sheet of 3/16" thick cutting and folding to required curvature and shape i/c welding etc complete (R.A based on Schedule) 2" Dia	1751.78	P.Rft	113866/-
4	16.00	Nos.	Providing & Fixing M.S Flange Made out of M.s Plate having thickness 3/8" Drilling holes cutting etc complete 3" Dia	2451.00	Each	39216/-
5	1.280	Cwt	C.I Bend, Trapper & Tee with Flange ends with holes i/c tuning & facing of flange for all size	18288.00	P.Cwt	23409/-
6	1.00	No.	C.I Short piece 6" Dia	3900.00	Each	3900/-

7	2.00	Nos.	C.I foot valve heavy pattern with cone type gate. 3" Dia	5500.00	Each	11000/-
8	2.00	Nos.	C.I Sluice valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/s q.inch). 3" Dia	8200.00	Each	16400/-
9	2.00	Nos.	C.I Reflex valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/sq.inch).(imported). 3" Dia	6500.00	Each	13000/-
10	72.00	Rft	Providing & laying (MAIN or SUB-MAIN) PVC insulated with size 03-7/0.36 (4mm2) copper conductor in 3/4" dia PVC conduit on surface	916.79	P.Rft	66009/-
11	1.00	Nos.	Providing and fixing earthing set with 2'x2'x1.4" copper plate buried in ground at a depth of 12' or less of water come out from the ground level with salt and charcoal etc	30191.00	Each	30191/-
12			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	24.00	Joints	(i) 3" dia	1562.07	P.Joint	37490/-
Total Sub Group II						3537181/-
Total 5						5703805/-
<u>PART-6 SLOW SAND FILTER 35' X 65' 2 NOS.</u>						
1	16188.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	15849.60	P.%0Cft	256573/-
2	5396.00	Cft	Excavation for tanks and reservoirs in wet soil or clay or mud i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	24993.60	P.%0Cft	134865/-
3	17267.20	Cft	Earth work compaction (Soft, ordinary or hard soil)(b) Laying earth in 6" layers levelling dressing and watering for compaction etc. complete.	1.58	P.Cft	27282/-
4	4047.00	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	1200704/-
5	4006.55	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	1777065/-
6	8458.83	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	6069972/-
7	2275.00	Cft	precast reinforced cement in colum, beams lintels stairs cases, shelves etc. (ll) Ratio 1 : 2:4 90 Lbs	689.28	P.Cft	1568112/-
8	544.56	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	9949661/-
9	2275.00	Cft	Erecting and fixing in position precast cement concrete or stone charges. slab in roofs or lintels etc, lift upto 20 feet including all charges.	126.23	P.Cft	287173/-
10	9005.25	Sft	Cement plaster 1:4 upto 12' hieight 3/4" Thick.	53.82	P.Sft	484663/-
11	359.31	Lbs	Supplying of pudlo 50 lbs	158.80	P.Lb	57058/-

12	1143.00	Rft	Providing construction joint in concrete work of 9" wide corrugated PVC (with bulb) i/cutting of planks to the exact shape of structure and cost of the material and labour etc complete.	586.09	P.Rft	669901/-
13	31.50	Kgs	Supplying of CI Tapper flanged bottomed or central tapered flanged and with holes i/c turning and facing of flanges for all size	360.00	P.Kg	11340/-
14	4550.00	Cft	Supplying and stacking at site stone metal of size 3/4" -1 1/2"(19mm to 38mm) ring i/c screening washing and spreading the same in filter beds to correct level etc complete.	13288.80	P.%Cft	604640/-
15	4550.00	Cft	Supplying and stacking at site gravel of size 1/8" - 1/4" (80mm to 160mm)ring i/c screening washing and spreading the same in filter beds to correct level etc complete.	11384.40	P.%Cft	517990/-
16	11375.00	Cft	Supplying and stacking at site filter sand for slow sand filters of effective size 0.25mm to 0.4mm i/c double screening washing and spreading the same in filter beds to correct level etc complete.	21752.40	P.%Cft	2474336/-
17	40.00	Rft	Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of cutting trench upto 2 2/1 ft depth refilling, watering remaining and disposal of surplus earth with 1 Chain and Painting 2 coat of bitumen 2 pipes and special after cloth soaked in maxphalt composition wraped tightly around pipes and testing to presure head of 200ft. 6"dia G.I Pipe I/C all fitting Etc.	2384.82	P.Rft	95393/-
19	93.05	Kgs	Providibg & Fixing C.I standard 90 Degree bends in trenches, and testing with water to a pressure head of 200 ft 6" dia	360.00	P.Kg	33498/-
20	2.00	Nos.	C.I Sluice valve heavy pattern (Test Pressure 21.0 kg/sq.cm or 300 lb/sq.inch) 16" Dia	17500.00	Each	35000/-
21	8.00	Joints	Jointing C.I/M.S flanged pipes and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts, bolts with washers etc,and other tools required for jointing and testing the joints to the specified pressure etc complete. 6" dia	2383.38	P.Joint	19067/-
22	200.00	Rft	Providing,Laying & Fixing in trench i/c fitting, jointing & 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. 12 " Dia 315mm	3843.97	P.Rft	768794/-
20	4.00	Nos.	HDPE-100 UN-EQUAL TEE (outer dia) 315 x 90 x 315	17080.00	Each	68320/-
23	8.00	Joints	Butt Fussion joint. 315mm	3432.00	Each	27456/-
Total (6)						27138863/-
PART-7 CLEAR WATER TANK 20' X 30'						
1	4375.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain 0' to 5'	15849.60	P.%0Cft	69342/-
2	4375.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	24993.60	P.%0Cft	109347/-
3		Cft	Add for additional lift of every three ft or part there of in item No.1 to 15 (A&B) for excavation for pipelines & storage tanks trenches and pits.			
	2625.00	Cft	5' to 8'	5616.00	P.%0Cft	14742/-
	1750.00	Cft	8' to 11'	11232.00	P.%0Cft	19656/-
4	656.25	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	194703/-

5	150.00	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	66531/-
6	2654.12	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	1904570/-
7	142.19	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	2597955/-
8	1620.00	Sft	Cement plaster 1:4 upto 12' hieght 1/2" Thick.	39.43	P.Sft	63877/-
9	1620.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	36661/-
10	41.40	Lbs	Supply Dampp for mixing with cement plaster for water proof 3.5 lbs per bag etc	350.00	P.Lb	14490/-
11	318.00	Rft	Providing construction joint in concrete work of 9" wide corrugated PVC (with bulb) i/cutting of planks to the exact shape of structure and cost of the material and labour etc complete.	586.09	P.Rft	186377/-
12	4.00	Nos.	P/F C.I ventilator (weight not less than 80 Lbs/each) in tank roof of approved design with water tight joint i/c painting etc complete.	19970.09	Each	79880/-
13	2.00	Nos.	Providing C.I Manhole Cover & Frame i/c Cost of Material etc.	19188.00	Each	38376/-
14	30.00	Rft	P/F in position in C.C foundation 1:3:6 M.S ladder of M.S angle iron 2"x2"x1/4" 1' apart with M.S bar 3/4" dia spaced 1' apart painting 3 coats with anticorrosive steel paint etc complete.	4200.24	P.Rft	126007/-
15	875.00	Sft	Water proofing layer over the domical or flat roof slab of the HSR in 2 coats of bitumen laid hot using 34 Lbs for % Sft and blending with sand at 1 Cft. Per % Sft.	15084.08	P.%Sft	131986/-
Total (7)						5654500/-
PART-8 PUMP HOUSE 12'X 14'						
1	275.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	3267/-
2	135.78	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	40285/-
3	220.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	85507/-
4	440.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	46851/-
5	378.94	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	144444/-
6	133.08	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	95497/-

7	5.94	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	108530/-
8	24.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	26978/-
9	0.857	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	17454/-
10	0.857	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	707/-
11	242.34	Cft	Filling watering and ramming earth under floor with surplus earth from foundation lead upto one chain and lift upto 5 ft.	6.50	P.Cft	1575/-
12	28.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	76355/-
13			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	305.25	Sft	1" Thick	65.57	P.Sft	20015/-
	168.00	Sft	2" Thick	108.75	P.Sft	18270/-
14	1379.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	52099/-
15	1379.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	51037/-
16	2758.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	62414/-
17	1379.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	4951/-
18	639.00	Sft	Distemper 2 Coats	13.66	P.Sft	8729/-
19	638.50	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	40213/-
20	104.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	2654/-
Total						907832/-
Total (8) for 3 Pump House 2 x 907832						1815664/-
PART-9 SHED FOR GENERATOR 10'X 12'						
1	626.20	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	7439/-
2	189.81	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	56315/-
3	310.41	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	222747/-

4	12.47	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	227839/-
5	144.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	55968/-
6	288.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	30666/-
7	331.11	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	126213/-
8	372.33	Cft	Filling watering and ramming earth under floor with surplus earth from foundation lead upto one chain and lift upto 5 ft.	6.50	P.Cft	2420/-
9			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	239.25	Sft	1" Thick	65.57	P.Sft	15688/-
	120.00	Sft	3" Thick	145.00	P.Sft	17400/-
10	1091.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	41218/-
11	1091.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	40378/-
12	2182.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	49379/-
13	1091.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	3917/-
14	340.00	Sft	Distemper 2 Coats	13.66	P.Sft	4644/-
15	505.50	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	31836/-
16	36.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	40468/-
17	1.286	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	26191/-
18	1.286	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	1061/-
19	64.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	174525/-
20	200.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	5104/-
Total (9)						1181416/-

PART-10 DIESEL GENERATOR 150 KVA						
1	1.00	Nos.	Supplying Installing & Commissioning Diesel Generator Set PERKINS (Model EPG165) (U.K) or Equivalent made Engine 1106A 70TAG2 Output Prime 150 KVA Output Standby 165 KVA 415/220 Volt, 3 Phase, 4 Wire, 50HZ, Power Factor 0.8 at 1500 RPM with 4 Cylendor Vertical in Line-4 Stroke Water Cooled, direct coupled with standard accessories and Base Frame having built in Fuel Tank, complete Exhaust system and with safety device like speed control, Oil pressure and many more Safety more devices, Providing Alternator Leroy Somer-France/Meccatle-UK/ Stamford-UK, sound proof and Wheather proof for 150 KVA Generator Canopy i/c Providig Control Pannel Deep Sea Model DSE-6020 etc complete, transportation with loading unloading at ground, Rubber Pads underneath to control vibration of Generator, Misc. Material like PVC Pipe, Flexible Pipe, Tape, Coolant etc and Battery for 150 KVA Generator, Fuel Sensor with Configurator i/c Providing & Fixing Earthing arrangements and Testing the Diesel Generator for 24	7869290	P.Set	7869290/-
Total (10)						7869290/-
PART-11 SOLAR ENERGY SYSTEM AT WATER WORKS						
1	56160.00	Watts	550-650 watt Mono-Perc Grade-A Tier 1 Solar Panels(Bi-Facial, N-Type or equivalent) (n.s)	42.00	P.watt	2358720/-
2	1.00	No.	VFD Drive Off Grid 75 KW 3 Phase.(N.S)	450000.00	Each	450000/-
3	56160.00	Watts	MS Mounting Frame (16 Guage) 3" Circle Pipes for Base & 3" x 1-1/2" Rectangular Pipes Double Paint Coated. Electrical & Solar Accessories for System (AC Cables, DC Cables, Battery Cables, AC & DC Circuit Breakers, Changeovers, Electric Panels, Bus Bar, PVC Piping, Ducting, Fitting & Misc. Items) Approximately Will be Charged as Per Actual after Completion) i/c Transportation Expnenses (N.S)	55.00	P.watt	3088800/-
4	56160.00	Watts	Complete Engineering Installation * 3 Months of Free Services or 2 troubleshooting visits. (N.S)	16.00	P.watt	898560/-
Total (11)						6796080/-
PART-12 DELIVERY MAIN 6" DIA (160mm) & 4" Dia 110mm						
1	169222.50	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	3094741/-
2			Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051.			
	13500.00	Rft	4" Dia 160mm	505.07	Rft	6818445/-
	10000.00	Rft	6" Dia 160mm	1011.05	Rft	10110500/-
3			P.E Special for P.E Pressure Pipe standard wet for ACIL B Class.			
	2.00	Nos.	P.E Elbow 45o(PN-08) 6" Dia 160mm	4246.00	Each	8492/-
	3.00	Nos.	P.E Elbow 45o(PN-08) 4" Dia 110mm	2019.00	Each	6057/-
4			P.E Elbow 90o(PN-08)			
	6.00	Nos.	P.E Elbow 90o(PN-08) 6" Dia 160mm	5306.00	Each	31836/-
	6.00	Nos.	P.E Elbow 90o(PN-08) 4" Dia 110mm	2524.00	Each	15144/-
5			HDPE-100 FLANGE ADOPTOR / STAB ENDS (PN-10)			
	10.00	Nos.	6" Dia 160mm	5164.00	Each	51640/-
	6.00	Nos.	4" Dia 110mm	2464.00	Each	14784/-
6	1.00	No.	HDPE-100 un-Equal Tee (outer dia) 6x 4 x 8	4579.00	Each	4579/-
7			Supply Single Acting Air Valve over PVC & P.E Pipe of required dia comprising of MS Puddle Collar tee required size with 3/8" thick MS Plate 1-1/4: wide (1-No) MS Flange (3-Nos) 3/8" thick MS Sheet, MS Pipe of required size made out of 3/16"thick MS Sheet 3' long, Air Valve 3" Dia (1-No) MS Fabricated Ring comprising on 1/2" Dia bar 4" center rate also i/c C.I Plate fixed over top of pipe,also i/c rubber packing of the required thickness nuts bolts with washer and painting of pipes & special etc complete Double Acting			
	5.00	Nos.	6" Dia 160mm	21450.00	Each	107250/-
	8.00	Nos.	4" Dia 110mm	20130.00	Each	161040/-

8	4.00	Nos.	Reducer 110 x 160	4000.00	Each	16000/-
9	26.00	Nos.	But Fusion Joint. 6" Dia	1560.00	Each	40560/-
10	152300.25	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	2135371/-
11	6.00	Nos.	Providing Chamber 3'x2' (915x615 mm) inside diamension 4 1/2' (1372 mm) deep as per approved design for sluice value 3" to 12" dia with 18" (457 mm) dia inside cost iron cover and frame (wt=1 cwt 3 qr) fixed in RCC 1:2:4 (102 mm) thick (with 5 Lbs steel per cft) 9" (299 mm) thick burnt brick masonary wall set in 1:6 cement mortar 6" (1152 mm) thick cement concrete 1:3:6 infoundation 1" (25 mm) thick cement concrete1:3:6 in foundation 1" (25 mm) thick cement concrete 1:2:4 flooring 1/2" (12.5 mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S footrest at every one foot beyond 2 1/2 ft depth curing, excavation, back filling and disposal of surplus earthetc. complete.	63209.83	Each	379259/-
Total (12)						22995698/-
PART-13 DISTRIBUTION SYSTEM						
1	69239.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	1266243/-
2			Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051.			
	2200.00	Rft	4" Dia	505.07	Rft	1111154/-
	8398.00	Rft	3" Dia	343.71	Rft	2886477/-
3			C.I Sluice valve heavy pattern (Test Pressure 21.0 kg/sq.cm or 300 lb/sq.inch)			
	3.00	Nos.	4" Dia	9500.00	Rft	28500/-
	3.00	Nos.	3" Dia	8200.00	Rft	24600/-
4			PE Fitting.			
	5.00	Nos.	4" Dia Bend 90	2524.00	Rft	12620/-
	5.00	Nos.	4" Dia Tee	3029.00	Rft	15145/-
	5.00	Nos.	4" Dia End Plug	730.00	Rft	3650/-
	20.00	Nos.	3" Dia Bend 90	1709.00	Rft	34180/-
	10.00	Nos.	3" Dia Tee	2048.00	Rft	20480/-
	14.00	Nos.	3" Dia End Plug	490.00	Rft	6860/-
5			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	6.00	Joints	(i) 4" dia	1701.02	P.Joint	10206/-

	6.00	Joints	(i) 3" dia	1562.07	P.Joint	9372/-
6			Flange Adapter			
	6.00	Nos.	(i) 3" dia	2416.00	Each	14496/-
	6.00	Nos.	(i) 4" dia	2464.00	Each	14784/-
7			But Fusion Joint			
	15.00	Nos.	(i) 4" dia	1560.00	Each	23400/-
	61.00	Nos.	(i) 3" dia	936.00	Each	57096/-
8	62315.10	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	873708/-
Total (13)						6412971/-
PART-14 COMPOUND WALL (150' x 200') zone B						
1	2094.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	24877/-
2	521.25	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	154650/-
3	5464.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	581807/-
4	2732.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	1061846/-
5	1125.61	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	429060/-
6	86.00	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	61713/-
7	3.46	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	63218/-
8	5787.96	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	218669/-
9	5787.96	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	214212/-
10	11575.92	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	261963/-
11	72.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	196341/-
12	5787.96	Sft	Priming Coats of chalk distemper	3.59	P.Sft	20779/-
13	5787.96	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	364526/-
14	156.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	3981/-
(13) Total (14)						3657642/-

PART-15 STAFF QUARTER HUT TYPE						
SUB-GROUP-I STAFF QUARTER						
1	326.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	3873/-
2	142.00	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	42130/-
3	317.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering.	388.67	P.Cft	123208/-
4	728.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	77517/-
5	364.25	Cft	Filling watering and ramming earth under floor with surplus earth (Excavated from outside) lead up to one chain and lift up to 5 feet	6.50	P.Cft	2368/-
6	456.00	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	173818/-
7	157.11	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	112741/-
8	7.01	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removeal of rust from bars.) tor bar	18271.01	P.Cwt	128080/-
9	49.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	133621/-
10	0.857	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	17454/-
11	0.857	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	707/-
12	24.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	26978/-
13			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	192.00	Sft	2" Thick	108.75	P.Sft	20880/-
	358.88	Sft	1" Thick	65.57	P.Sft	23532/-
14	1745.13	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	64587/-
15	1745.13	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	65931/-
16	3490.26	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	78985/-
17	146.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats) (13	25.52	P.Sft	3726/-
18	1745.13	Sft	Priming Coats of chalk distemper	3.59	P.Sft	6265/-
19	1745.13	Sft	Distemper 2 Coats	13.66	P.Sft	23838/-
Total Sub- Group-I						1130239/-

SUB-GROUP-II ELECTRIC FITTING						
1	2.00	Jobs	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required	6364.33	P.Job	12729/-
2	3.00	Nos.	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required.	3816.06	Each	11448/-
3	40.00	Rft	Providing & laying (Main or Sub Main) PVC insulated with size 3-7-3/.029 copper conductor in ¾" dia PVC conduit on surface	684.64	P.Rft	27386/-
4	1.00	No.	Providing & fixing three pin 10/15amp plug & socket flush type.	677.36	P.Cft	677/-
5	1.00	Nos.	Providing & fixing Brass Battern holder.	1152.61	P.Cft	1153/-
6	63.00	Rft	Providing & laying (Main or Sub Main) PVC insulated with size 4-7/.036 copper conductor in 1" Dia PVC conduit on column	1240.76	P.Rft	78168/-
7	1.00	Nos.	Providing & fixing circuit breaker 6, 10 , 15, 20,30,40,50 & 63 DP (TB-5S)on prepared board as reuquired.	2504.12	Each	2504/-
8	1.00	Nos.	Providing & fixing A.C Electric Ceiling fan 56"	14869.21	Each	14869/-
9	3.00	Nos.	Providing & fixingenergy saver 20 watts. (N.S)	400.00	Each	1200/-
Total Sub- Group-II						150134/-
SUB-GROUP-III SANITARY FITTING						
1	1.00	No.	Providing and fixing 24"x18" lavatory basin inwhite glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket6 inches built into wall, painted white in two coatsafter a primary coat of red lead paint, a pair of 1-1/2" dia chrome plated pillar taps, 1-1/2" rubberplug & chrome plated brass chain 1-1/4" diamalleable iron or C.P. brass traps malleable iron orbrass unions and making requisite number of holesin walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign Equivalent)	24094.98	Each	24095/-
2	1.00	No.	Providing and fixing squatting type white glazed earthen ware W.C pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and requiste number of holes in walls plinth & floor for pipe connection & making good in cement concrete 1:2:4 Far.(23 inch	10440.50	Each	10441/-
3	1.00	Nos.	Providing and fixing 6"x2" or 6"x3" C.I. floor trap of the approved self cleaning design with a C.I. screwed down grating with or without a vent arm including cost of making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4	1647.07	Each	1647/-
4	1.00	Nos.	Providing and fixing in position nylon connection complete with " dia brass stop cock with pair of brass nuts and lining jointed to nylon connection.	637.65	Each	638/-
5			Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of breaking through walls and roof making good etc. painting 2 coats after cleaning the pipe etc. with white zinc paint with pigment to match the colour of the building and testing with water to a pressure bead of 200 feet and handling.			
	50.00	Rft	3/4" Dia	334.05	P.Rft	16703/-
	30.00	Rft	1/2" Dia	275.55	P.Rft	8267/-

6			Providing and Fixing Handle Value.			
	1.00	Nos.	3/4" Dia	1848.60	Each	1849/-
	1.00	Nos.	1/2" Dia	1614.60	Each	1615/-
7	1.00	Nos.	Providing chambers 15"x19" (inside dimension) x24" deep for house meters with 6" thick C.C. 1:2:4 blocks set in 1:6 cement mortar 6" thick C.C. 1:4:8 in foundation, " thick cement plaster 1:3 to all inside wall surfaces and to top 1" thick C.C. 1:2:4 fl.	9051.80	Each	9052/-
8	10.00	Rft	Providing R.C.C pipe with collars class 'B' (digging the trenches to required depth & fixing in position including cutting, fitting & jointing with asphalt composition & cement mortar 1:1 and testing with water pressure to a head of 4 ft. above the top. (6" Dia)	823.31	P.Rft	8233/-
9			Add Extra Labour for Concelled GI Pipe and Fitting i/c making recess in the wall for pipe and making good in cement mortor etc complete			
	50.00	Rft	3/4" Dia	8.45	P.Rft	423/-
	30.00	Rft	1/2" Dia	7.82	P.Rft	235/-
10	2.00	No.	Supplying & fixing long Bib -cock of Crystal head with C.Phead 1/2" dia	2784.60	Each	5569/-
11			S/F PE (PRR) TEE (M.P) (N.S)			
	4.00	Nos.	3/4" Dia	96.00	Each	384/-
	4.00	Nos.	1/2" Dia	68.80	Each	275/-
12			S/F PE (PRR) elbow /socket union (N.S)			
	2.00	Nos.	Elbow 3/4" Dia	110.00	Each	220/-
	2.00	Nos.	Elbow 1/2" Dia	85.00	Each	170/-
	2.00	Nos.	Union 3/4" Dia	150.00	Each	300/-
	2.00	Nos.	Union 1/2" Dia	120.00	Each	240/-
13	2.00	No.	Supplying fixing G.I Nipple Tee. 3/4" dia	15.00	Each	30/-
14	1.00	Nos.	Supplying & fixing Fiber glass tank of approved quality and design and wall thickness as specified including cost of nuts, bolts and fixing in plat form of cement concrete 1:3:6 and making connection for inlet, outlet and over flow pipes etc. complete. 500 gallons	69982.85	P.Cft	69983/-
15	1.00	Nos.	P/F A.C Electric Motor with donkry pump 1/2 BHP etc complete. (N.S)	19800.00	Each	19800/-
Total Sub- Group-III						180169/-
Total Sub- Group-I						1130239/-
Total Sub- Group-II						150134/-
Total Sub- Group-III						180169/-
Total 15						1460542/-

PART-16SIGN BOARD						
1	1.00	No.	Providing & Fixing Rectangular shape 3'x2' comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each.	52117.78	Each	52118/-
Total (16)						52118/-
ABSTRACT OF ZONE-B						
Item	Quantity			Shedule Item	NSI	Total
1	PART-1 FEEDING CHANNEL			2850839.00	0.00	2850839/-
6	PART-2 ALUM DOSING CHAMBER			139135.00	0.00	139135/-
7	PART-3 STORAGE TANK 165' X 85' 2 NOS.			18737956.00	0.00	18737956/-
9	PART-4 RISING MAIN 6" Dia (160mm) ST to F.BEDS			186329.00	0.00	186329/-
8	PART-5 PUMPING MACHINERY AT WATER WORKS (ZONE-B)			771205.00	4932600.00	5703805/-
10	PART-6 SLOW SAND FILTER 35' X 65' 2 NOS.			27138863.00	0.00	27138863/-
11	PART-7 CLEAR WATER TANK 20' X 30'			5654500.00	0.00	5654500/-
2	PART-8 PUMP HOUSE 12'X 14'			1815664.00	0.00	1815664/-
3	PART-9 SHED FOR GENERATOR 10'X 12'			1181416.00	0.00	1181416/-
12	PART-10 DIESEL GENERATOR 150 KVA			0.00	7869290.00	7869290/-
13	PART-11 SOLAR ENERGY SYSTEM AT WATER WORKS			0.00	6796080.00	6796080/-
14	PART-12 DELIVERY MAIN 6" DIA (160mm) & 4" Dia 110mm			22995698.00	0.00	22995698/-
15	PART-13 DISTRIBUTION SYSTEM			6412971.00	0.00	6412971/-
16	PART-14 COMPOUND WALL (150' x 200') zone B			3657642.00	0.00	3657642/-
17	PART-15 STAFF QUARTER HUT TYPE			1437953.00	22589.00	1460542/-
18	PART-16 SIGN BOARD			52118.00	0.00	52118/-
TOTAL ZONE B				93032289.00	19620559.00	112652848/-
WATER SUPPLY SCHEME SANJAR CHANG						
Item	Quantity		Discription of Item to be execute on site	Rate	Unit	Amount
1	2		3	4	5	6
PART-1ALUM DOSING CHAMBER						
1	123.75	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	1470/-
2	8.17	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	2424/-
3	3.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	1331/-
4	76.13	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding, which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	54630/-
5	2.71	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	49514/-

6	81.50	Sft	Cement plaster 1:4 upto 12' hieight 1/2" Thick.	39.83	P.Sft	3246/-
7	81.50	Sft	Laying glazed tiles 1/4" thick floor of approved color & size jointing in white cement and laid over 1:2 cement sand mortor 3/4" thick including grouting with matching color and finishing	325.40	P.Sft	26520/-
Total (1)						139135/-
PART-2 STORAGE TANK 120' X 70' 2 NOS.						
2	76500.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	15849.60	P.%0Cft	1212494/-
3	2025.00	Cft	Excavation for tanks and reservoirs in wet soil or clay or mud i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	24993.60	P.%0Cft	50612/-
5	15.00	Days	Hire charges of pumping set of upto 10 H.P pumping out water from 10 ft. deep trench.	7468.80	P.Day	112032/-
6	10335.00	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	3066291/-
7	15134.00	Cft	Coursed Rubble masonry hammer dressed in Cement sand mortar in Cement Sand Mortar (1:4	294.49	P.Cft	4456812/-
8	4497.00	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering.	443.54	P.Cft	1994599/-
9	325.25	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	34633/-
10	5700.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	215346/-
11	5700.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	210957/-
12	11400.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	257982/-
13	1352.50	Sft	Pointing flush on stone work raised (ii) In cement mortar 1:3	54.07	P.Sft	73130/-
14	12201.75	Cft	Earth work compaction (Soft, ordinary or hard soil)(b) Laying earth in 6" layers levelling dressing and watering for compaction etc. complete.	1.58	P.Cft	19279/-
15	64298.25	Cft	Extra for every 50 ft. additional lead or part thereof (This rate shall apply to lead upto half mile, when the lead is more than half mile the lead shall be paid as carriage of material by mechanical means.) lead 1 mile.	753.43	P.%Cft	484442/-
Total (2)						12188609/-
PART-3 RISING MAIN 6" Dia (160mm) ST to F.BEDS						
1	984.37	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	18002/-
2	125.00	Rft	Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respects the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051. 6" Dia 160mm	1011.05	Rft	126381/-

3	2.00	Nos.	P.E Special for P.E Pressure Pipe standard wet for ACIL B Class. P.E Elbow 45o(PN-08) 6" Dia 160mm	4246.00	Each	8492/-
4	1.00	Nos.	P.E Elbow 90o(PN-08) 6" Dia 160mm	5306.00	Each	5306/-
5	1.00	No.	HDPE-100 Equal Tee (outer dia) 6" Dia 160mm	6367.00	Each	6367/-
6	6.00	Nos.	But Fusion Joint. 6" Dia	1560.00	Each	9360/-
7	885.93	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	12421/-
Total (4)						186329/-
PART-4+A847 PUMPING MACHINERY AT WATER WORKS (ZONE-C)						
SUB-GROUP-I PUMPING MACHINERY AT STORAGE TANKS (ZONE-C)						
1	2.00	Set	Providing and installing in position i/c transportation at Intake Works scheme Sanjar Chang electric pumping set consist of electric motor 10.0 BHP 3-Phase 50 Cycle 400/420 Vols of 1450 RPM (Siemens) frame size 160 M coupled with Centrifugal Etanorm pump KSB Etanorm type (100-80-200) size 4" x 3" mounted on common steel frame or base plate capable discharge of 420 GPM against the Head of 50 ft i/c installing of pumping set on C.C foundation i/c provoding & installing prpared board automatic MCU (KSB) consist of A.C 50 Cycles 3Phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relayni/c fixing metaled board to accomodate main or submaincontrol switch recessed in the wall and testing of the pumping set against the required head & discharge per 72 hours etc complete (N.S)	874950.0	P.Set	1749900/-
3	59.00	Rft	Manufacturing & installing m.s pipe made out of m.s sheet of 3/16" thick cutting and folding to required curvature and shape i/c welding etc complete (R.A based on Schedule)	2300.06	P.Rft	135704/-
4	16.00	Nos.	Providing & Fixing M.S Flange Made out of M.s Plate having thickness 3/8" Drilling holes cutting etc complete 4" Dia	2889.00	Each	46224/-
5	1.303	Cwt	C.I Bend, Trapper & Tee with Flange ends with holes i/c tuning & facing of flange for all size	18288.00	P.Cwt	23829/-
6	1.00	No.	C.I Short piece 6" Dia	3900.00	Each	3900/-
7	2.00	Nos.	C.I foot valve heavy pattern with cone type gate. 4" Dia	7200.00	Each	14400/-
8	2.00	Nos.	C.I Sluice valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/s q.inch). 4" Dia	9500.00	Each	19000/-
9	2.00	Nos.	C.I Reflex valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/sq.inch).(imported). 4" Dia	8550.00	Each	17100/-
10	72.00	Rft	Providing & laying (MAIN or SUB-MAIN) PVC insulated with size 03-7/0.44 (6mm2) copper conductor in 3/4" dia PVC conduit on surface	1329.97	P.Rft	95758/-
11	1.00	Nos.	Providing and fixing earthing set with 2'x2'x1.4" copper plate buried in ground at a depth of 12' or less of water come out from the ground level with salt and charcoal etc	30191.00	Each	30191/-
12			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	18.00	Joints	(i) 4" dia (13	1701.02	P.Joint	30618/-
Total Sub Group I						2166624/-

SUB-GROUP-II PUMPING MACHINERY AT CLEAR WATER TANKS (ZONE-C)						
1	2.00	Set	Providing and installing in position i/c transportation at site work for intake Works scheme Missan Wadi taluka Jhando Mari tando allahyar electric pumping set consist of electric motor 25.0 BHP 3-Phase 50 Cycle 400/420 Vols of 1450 RPM (Siemens) frame size 180 M coupled with centrifugal ETA Norm pump KSB type (65-50-200) size 2.5" x 2" mounted on common steel frame or base plate capable discharge of 280 GPM against the Head of 160 Fft i/c installing of pumping set on C.C foundation i/c providing & installing prepared board automatic MCU (KSB) consist of A.C 50 Cycles 3Phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relay i/c fixing metaled board to accomodate main or submain control switch recessed in the wall and testing of the pumping set against the required head & discharge per 72 hours etc complete. (M.S)	1191210.0	P.Set	2382420/-
3	59.00	Rft	Manufacturing & installing M.S pipe made out of M.S sheet of 3/16" thick cutting and folding to required curvature and shape i/c welding etc complete (R.A based on Schedule)	2300.06	P.Rft	135704/-
4	14.00	Nos.	Providing & Fixing M.S Flange Made out of M.s Plate having thickness 3/8" Drilling holes cutting etc complete 4" Dia	2889.00	Each	40446/-
5	1.359	Cwt	C.I Bend, Trapper & Tee with Flange ends with holes i/c tuning & facing of flange for all size	18288.00	P.Cwt	24853/-
6	1.00	No.	C.I Short piece 6" Dia	3900.00	Each	3900/-
7	2.00	Nos.	C.I foot valve heavy pattern with cone type gate. 4" Dia	7200.00	Each	14400/-
8	2.00	Nos.	C.I Sluice valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/s q.inch). 3" Dia	8200.00	Each	16400/-
9	2.00	Nos.	C.I Reflex valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/sq.inch).(imported). 3" Dia	6500.00	Each	13000/-
10	36.00	Rft	Providing & laying (MAIN or SUB-MAIN) PVC insulated with size 03-7/0.44 (6mm2) copper conductor in 3/4" dia PVC conduit on surface	1329.97	P.Rft	47879/-
11	1.00	Nos.	Providing and fixing earthing set with 2'x2'x1.4" copper plate buried in ground at a depth of 12' or less of water come out from the ground level with salt and charcoal etc	30191.00	Each	30191/-
12			Jointing C.I/M.S flange pipe & special flanged inside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	16.00	Joints	(i) 3" dia	1562.07	P.Joint	24993/-
	8.00	Joints	(i) 4" dia	1701.02	P.Joint	13608/-
Total Sub Group II						2747794/-
Total 4						4914418/-

PART-5 SLOW SAND FILTER 35' X 65' 2 NOS.						
1	16188.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	15849.60	P.%0Cft	256573/-
2	5396.00	Cft	Excavation for tanks and reservoirs in wet soil or clay or mud i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	24993.60	P.%0Cft	134865/-
3	17267.20	Cft	Earth work compaction (Soft, ordinary or hard soil)(b) Laying earth in 6" layers levelling dressing and watering for compaction etc. complete.	1.58	P.Cft	27282/-
4	4047.00	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	1200704/-
5	4006.55	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	1777065/-
6	8458.83	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	6069972/-
7	2275.00	Cft	precast reinforced cement in colum, beams lintels stairs cases, shelves etc. (II) Ratio 1 : 2:4 90 Lbs	689.28	P.Cft	1568112/-
8	544.56	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	9949661/-
9	2275.00	Cft	Erecting and fixing in position precast cement concrete or stone charges. slab in roofs or lintels, etc, lift upto 20 feet including all charges.	126.23	P.Cft	287173/-
10	9005.25	Sft	Cement plaster 1:4 upto 12' hieight 3/4" Thick.	53.82	P.Sft	484663/-
11	359.31	Lbs	Supplying of pudlo 50 lbs	158.80	P.Lb	57058/-
12	1143.00	Rft	Providing construction joint in concrete work of 9" wide corrugated PVC (with bulb) i/cutting of planks to the exact shape of structure and cost of the material and labour etc complete.	586.09	P.Rft	669901/-
13	31.50	Kgs	Supplying of CI Tapper flanged bottomed or central tapered flanged and with holes i/c turning and facing of flanges for all size	360.00	P.Kg	11340/-
14	4550.00	Cft	Supplying and stacking at site stone metal of size 3/4" -1 1/2"(19mm to 38mm) ring i/c screening washing and spreading the same in filter beds to correct level etc complete.	13288.80	P.%Cft	604640/-
15	4550.00	Cft	Supplying and stacking at site gravel of size 1/8" - 1/4" (80mm to 160mm)ring i/c screening washing and spreading the same in filter beds to correct level etc complete.	11384.40	P.%Cft	517990/-
16	11375.00	Cft	Supplying and stacking at site filter sand for slow sand filters of effective size 0.25mm to 0.4mm i/c double screening washing and spreading the same in filter beds to correct level etc complete.	21752.40	P.%Cft	2474336/-
17	40.00	Rft	Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of cutting trench upto 2 2/1 ft depth refilling, watering remaining and disposal of surplus earth with 1 Chain and Painting 2 coat of bitumen 2 pipes and special after cloth soaked in maxphalt composition wraped tightly around pipes and testing to presure head of 200ft. 6" dia G.I Pipe I/C all fitting Etc.	2384.82	P.Rft	95393/-
19	93.05	Kgs	Providibg & Fixing C.I standard 90 Degree bends in trenches, and testing with water to a pressure head of 200 ft 6" dia	360.00	P.Kg	33498/-
20	2.00	Nos.	C.I Sluice valve heavy pattern (Test Pressure 21.0 kg/sq.cm or 300 lb/sq.inch) 16" Dia	17500.00	Each	35000/-
21	8.00	Joints	Jointing C.I/M.S flanged pipes and specials flanged and inside a trench i/c supplying rubber packing of the required thickness nuts, bolts with washers etc,and other tools required for jointing and testing the joints to the specified pressure etc complete. 6" dia	2383.38	P.Joint	19067/-
22	200.00	Rft	Providing,Laying & Fixing in trench i/c fitting, jointing & 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. 12 " Dia 315mm	3843.97	P.Rft	768794/-
20	4.00	Nos.	HDPE-100 UN-EQUAL TEE (outer dia) 315 x 90 x 315	17080.00	Each	68320/-
23	8.00	Joints	Butt Fussion joint. 315mm	3432.00	Each	27456/-
Total (5)						27138863/-

PART-6 CLEAR WATER TANK 20' X 30'						
1	4375.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain 0' to 5'	15849.60	P.%0Cft	69342/-
2	4375.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	24993.60	P.%0Cft	109347/-
3		Cft	Add for additional lift of every three ft or part there of in item No.1 to 15 (A&B) for excavation for pipelines & storage tanks trenches and pits.			
	2625.00	Cft	5' to 8'	5616.00	P.%0Cft	14742/-
	1750.00	Cft	8' to 11'	11232.00	P.%0Cft	19656/-
4	656.25	Cft	Cement concrete Brick or stone ballast 1 1/2" to 2" guage Ratio 1:4:8	296.69	P.Cft	194703/-
5	150.00	Cft	Cement concrete plain including placing compacting, finishing and curing, complete i/c screening and washing stone aggregate without shuttering. Ratio 1:2:4	443.54	P.Cft	66531/-
6	2654.12	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	1904570/-
7	142.19	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removeal of rust from bars.) tor bar	18271.01	P.Cwt	2597955/-
8	1620.00	Sft	Cement plaster 1:4 upto 12' hieight 1/2" Thick.	39.43	P.Sft	63877/-
9	1620.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	36661/-
10	41.40	Lbs	Supply Dampo for mixing with cement plaster for water proof 3.5 lbs per bag etc	350.00	P.Lb	14490/-
11	318.00	Rft	Providing construction joint in concrete work of 9" wide corrugated PVC (with bulb) i/cutting of planks to the exact shape of structure and cost of the material and labour etc complete.	586.09	P.Rft	186377/-
12	4.00	Nos.	P/F C.I ventilator (weight not less than 80 Lbs/each) in tank roof of approved design with water tight joint i/c painting etc complete.	19970.09	Each	79880/-
13	2.00	Nos.	Providing C.I Manhole Cover & Frame i/c Cost of Material etc.	19188.00	Each	38376/-
14	30.00	Rft	P/F in position in C.C foundation 1:3:6 M.S ladder of M.S angle iron 2"x2"x1/4" 1' apart with M.S bar 3/4" dia spaced 1' apart painting 3 coats with anticorrosive steel paint etc complete.	4200.24	P.Rft	126007/-
15	875.00	Sft	Water proofing layer over the domical or flat roof slab of the HSR in 2 coats of bitumen laid hot using 34 Lbs for % Sft and blending with sand at 1 Cft. Per % Sft.	15084.08	P.%Sft	131986/-
Total (6)						5654500/-
(14						
PART-7 PUMP HOUSE 12'X 14'						
1	275.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	3267/-
2	135.78	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	40285/-
3	220.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	85507/-
4	440.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	46851/-

5	378.94	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	144444/-
6	133.08	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	95497/-
7	5.94	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	108530/-
8	24.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	26978/-
9	0.857	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	17454/-
10	0.857	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	707/-
11	242.34	Cft	Filling watering and ramming earth under floor with surplus earth from foundation lead upto one chain and lift upto 5 ft.	6.50	P.Cft	1575/-
12	28.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	76355/-
13			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	305.25	Sft	1" Thick	65.57	P.Sft	20015/-
	168.00	Sft	2" Thick	108.75	P.Sft	18270/-
14	1379.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	52099/-
15	1379.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	51037/-
16	2758.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	62414/-
17	1379.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	4951/-
18	639.00	Sft	Distemper 2 Coats	13.66	P.Sft	8729/-
19	638.50	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	40213/-
20	104.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	2654/-
Total						907832/-
Total (7) for 3 Pump House 2 x 907832						1815664/-

PART-8 SHED FOR GENERATOR 10'X 12'						
1	626.20	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	7439/-
2	189.81	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	56315/-
3	310.41	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	222747/-
4	12.47	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	227839/-
5	144.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	55968/-
6	288.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	30666/-
7	331.11	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	126213/-
8	372.33	Cft	Filling watering and ramming earth under floor with surplus earth from foundation lead upto one chain and lift upto 5 ft.	6.50	P.Cft	2420/-
9			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	239.25	Sft	1" Thick	65.57	P.Sft	15688/-
	120.00	Sft	3" Thick	145.00	P.Sft	17400/-
10	1091.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	41218/-
11	1091.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	40378/-
12	2182.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	49379/-
13	1091.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	3917/-
14	340.00	Sft	Distemper 2 Coats	13.66	P.Sft	4644/-
15	505.50	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	31836/-
16	36.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	40468/-
17	1.286	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	26191/-
18	1.286	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	1061/-
19	64.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2", 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	174525/-
20	200.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	5104/-
Total (8)						1181416/-

PART-09 DIESEL GENERATOR 100 KVA						
1	1.00	Nos.	Supplying installing & Commissioning Diesel Generator Set PERKINS (Model EPG110) (U.K) or Equivalent made Engine 1104C 44TAG2 Output Prime 100 KVA Output Standby 100 KVA 415/220 Volt, 3 Phase, 4 Wire, 50HZ, Power Factor 0.8 at 1500 RPM with 4 Cylendor Vertical in Line-4 Stroke Water Cooled, direct coupled with standard accessories and Base Frame having built in Fuel Tank, complete Exhaust system and with safety device like speed control, Oil pressure and many more Safety more devices, Providing Alternator Leroy Somer-France/Meccatle-UK/ Stamford-UK, sound proof and Wheather proof for 100 KVA Generator Canopy i/c Providig Control Pannel Deep Sea Model DSE-4520 etc complete, transportation with loading unloading at ground, Rubber Pads underneath to control vibration of Generator, Misc. Material like PVC Pipe, Flexible Pipe, Tape, Coolant etc and Battery for 100 KVA Generator, Fuel Sensor with Confugurator i/c Providing & Fixing Earthing arrangements and Testing the Diesel Generator for 24	5597790	P.Set	5597790/-
Total (9)						5597790/-
PART-10 SOLAR ENERGY SYSTEM AT WATER WORKS						
1	39780.00	Watts	550-650 watt Mono-Perc Grade-A Tier 1 Solar Panels(Bi-Facial, N-Type or equivalent) (n.s)	42.00	P.watt	1670760/-
2	1.00	No.	VFD Drive Off Gride 55 KW 3 Phase.(N.S)	350000.00	Each	350000/-
3	39780.00	Watts	Ms Mounting Frame (16 Guage) 3" Circle Pipes for Base & 3" x 1-1/2" Rectangular Pipes Double Paint Coated. Electrical & Solar Accessories for System (AC Cables, DC Cables, Battery Cables, AC & DC Circuit Breakers, Changeovers, Electric Panels, Bus Bar, PVC Piping, Ducting, Fitting & Misc. Items) Approximately Will be Charged as Per Actual after Completion) I/c Transportation Exynses (N.S)	55.00	P.watt	2187900/-
4	39780.00	Watts	Complete Engineering Installation * 3 Months of Free Services or 2 troubleshooting visits. (N.S)	16.00	P.watt	636480/-
Total (10)						4845140/-
PART-11 DELIVERY MAIN 6" DIA (160mm)						
1	27562.50	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	504063/-
2	3500.00	Rft	Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051. 6" Dia 160mm	1011.05	Rft	3538675/-
3			P.E Special for P.E Pressure Pipe standard wet for ACIL B Class.			
	2.00	Nos.	P.E Elbow 45o(PN-08) 6" Dia 160mm	4246.00	Each	8492/-
4	6.00	Nos.	P.E Elbow 90o(PN-08) 6" Dia 160mm	5306.00	Each	31836/-
5	6.00	Nos.	HDPE-100 FLANGE ADOPTOR / STAB ENDS (PN-10) 6" Dia 160mm	5164.00	Each	30984/-
6	2.00	Nos.	Supply Single Acting Air valve over PVC & P.E Pipe or required dia comprising of MS Puddle Collar tee required size with 3/8" thick MS Plate 1-1/4: wide (1-No) MS Flange (3-Nos) 3/8" thick MS Sheet, MS Pipe of required size made out of 3/16"thick MS Sheet 3' long, Air Valve 3" Dia (1-No) MS Fabricated Ring comprising on 1/2" Dia bar 4" center rate also i/c C.I Plate fixed over top of pipe,also i/c rubber packing of the required thickness nuts bolts with washer and painting of pipes & special etc complete Double Acting 6" Dia 160mm	21450.00	Each	42900/-
7	2.00	Nos.	Reducer 225 x 125	8710.00	Each	17420/-
8	12.00	Nos.	But Fusion Joint. 6" Dia	1560.00	Each	18720/-
9	24806.25	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	347803/-
Total (11)						4540893/-

PART-13 DISTRIBUTION SYSTEM						
1	154080.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	2817815/-
2			Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051.			
	13000.00	Rft	4" Dia	505.07	Rft	6565910/-
	15000.00	Rft	3" Dia	343.71	Rft	5155650/-
3			C.I Sluice valve heavy pattern (Test Pressure 21.0 kg/sq.cm or 300 lb/sq.inch)			
	3.00	Nos.	4" Dia	9500.00	Rft	28500/-
	3.00	Nos.	3" Dia	8200.00	Rft	24600/-
4			PE Fitting			
	20.00	Nos.	4" Dia Bend 90	2524.00	Rft	50480/-
	15.00	Nos.	4" Dia Tee	3029.00	Rft	45435/-
	10.00	Nos.	4" Dia End Plug	2300.00	Rft	23000/-
	20.00	Nos.	3" Dia Bend 90	1704.00	Rft	34080/-
	10.00	Nos.	3" Dia Tee	2045.00	Rft	20450/-
	15.00	Nos.	3" Dia End Plug	1500.00	Rft	22500/-
5			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	6.00	Joints	(i) 4" dia	1701.02	P.Joint	10206/-
	6.00	Joints	(i) 3" dia	1562.07	P.Joint	9372/-
6			Flange Adapter			
	6.00	Nos.	(i) 3" dia	2416.00	Each	14496/-
	6.00	Nos.	(i) 4" dia	2464.00	Each	14784/-
7			But Fusion Joint			
	60.00	Nos.	(i) 4" dia	1560.00	Each	93600/-
	55.00	Nos.	(i) 3" dia	936.00	Each	51480/-
8	138672.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	1944292/-
Total (12)						16926650/-
PART-13 STAFF QUARTER TYPE-III						
SUB-GROUP-I STAFF QUARTER						
1	868.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	10312/-
2	217.00	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	64382/-
3			Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering.			
	602.00	Cft	Ratio 1:3:6	388.67	P.Cft	233979/-
	958.00	Cft	Ratio 1:2:4	348.83	P.Cft	334179/-

4	1204.50	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	128255/-
5	1395.00	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	531746/-
6	13.50	Cft	Add Extra Labor in item No.5 for brick work in first floor in cement sand mortar (1:6)	398.27	P.Cft	5377/-
7	1149.12	Cft	Filling watering and ramming earth under floor with new earth (Excavated from outside) lead up to one chain and lift up to 5 feet	19.01	P.Cft	21845/-
8	593.96	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	426220/-
9	26.51	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removeal of rust from bars.) tor bar	18271.01	P.Cwt	484364/-
10	958.00	Sft	Providing and laying topping 2" thick cement concrete 1:2:4 including surface finishing and dividing into panels.	108.75	P.Sft	104183/-
11	912.93	Sft	Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.	65.57	P.Sft	59861/-
12	4719.25	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	174659/-
13	4719.25	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	178293/-
14	4719.25	Sft	Priming Coats of chalk distemper	3.59	P.Sft	16942/-
15	4719.25	Sft	Distemper 2 Coats	13.66	P.Sft	64465/-
16	9.200	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	187371/-
17	9.200	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	7589/-
18	173.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	194469/-
19	515.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	13143/-
Total Sub- Group-I						3241634/-
<u>SUB-GROUP-II</u> <u>ELECTRIC FITTING</u>						
1	7.00	Jobs	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required	6364.33	P.Job	44550/-
2	1.00	No.	Wiring for call bell point with 3/.029 PVC insulated wire in 20mm (3.4") conduit on surface as required.	6331.76	Each	6332/-
3	3.00	Nos.	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit on surface as required.	3816.06	Each	11448/-
4	70.00	Rft	Providing & laying (Main or Sub Main) PVC insulated with size 3-7-3/.029 copper conductor in ¾" dia PVC conduit on surface	667.06	P.Rft	46694/-
5	1.00	No.	Providing & fixing three pin 10/15amp plug & socket flush type.	677.36	P.Cft	677/-
6	1.00	No.	Providing & fixing earthing set (1'x1') copper plet i/c excavation of rock earth 12' depth or if water comes out i/c salt/choracale mixed with G.I pipe with nut bolt testing topping etc complete.	30191.00	P.Cft	30191/-
7	2.00	Nos.	Providing & fixing Brass Battern holder.	1152.61	P.Cft	2305/-

8	63.00	Rft	Providing & laying (Main or Sub Main) PVC insulated with size 2-7/0.44(6mm2) copper conductor in 1" Dia PVC conduit on surface.	671.52	P.Rft	42306/-
9	2.00	Nos.	Providing & fixing circuit breaker 6, 10 , 15, 20,30,40,50 & 63 DP (TB-5S)on prepared board as reuquired.	5528.57	Each	11057/-
10	2.00	Nos.	Providing & fixing A.C Electric Ceiling fan 56"	14869.21	Each	29738/-
11	8.00	Nos.	Providing & fixingenergy saver 20 watts. (N.S)	400.00	Each	3200/-
Total Sub- Group-II						228498/-
SUB-GROUP-III SANITARY FITTING						
1	1.00	No.	Providing and fixing nat black tipped iron urinal basin (or not less than 17 " in height) of white glazed earthen ware complete with & including the cost of ½ " dia gun metal gate valve with standard flush pipe , waste pipe (enameled iron) complete with fitting and making requisite number of holes in walls , plinth & floor for pipe connection & making good in cement concrete 1:2:4 .(Standard pattern)	4464.14	Each	4464/-
2	1.00	No.	Providing and fixing 24x18" lavatory basin in white glazed carthen ware complete with &e including the cost of W.I. or C.I. cantilever bracket 6 inches built into wall, painted white in two coats after a primary coat of red lead paint, a pair of ½" dia chrome plated pillar taps, 1-1/2" rubber plug & chrome plated brass chain 1-1/4" dia malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Standard Pattern) (Karam Ceramics).	9495.14	Each	9495/-
3	1.00	Nos.	Providing and fixing 6"x2" or 6"x3" C.I. floor trap of the approved self cleaning design with a C.I. screwed down grating with or without a vent arm including cost of making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4	1647.07	Each	1647/-
4	1.00	Nos.	Providing and fixing in position nylon connection complete with " dia brass stop cock with pair of brass nuts and lining jointed to nylon connection.	637.65	Each	638/-
5	1.00	No.	Providing and fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long C.P. brass screws.	2700.01	P.Cft	2700/-
6	1.00	No.	Supplying & fixing soap tray of superior quality and design with fine finishing with C.P. screws etc. complete.	585.00	P.Cft	585/-
7	4.00	Nos.	Providing & fixing M.S. clamps of the approved design to 3" dia C.I. pipe socket including the cost of cutting and making good and extra painting to match the colour of the building.	427.96	P.Cft	1712/-
8			Providing G.I. pipes specials and clamps etc. including fixing cutting and fittings complete with and including the cost of breaking through walls and roof making good etc. painting 2 coats after cleaning the pipe etc. with white zinc paint with pigment to match the colour of the building and testing with water to a pressure bead of 200 feet and handling.			
	40.00	Rft	1" Dia	503.70	P.Rft	20148/-
	50.00	Rft	3/4" Dia	334.05	P.Rft	16703/-
	100.00	Rft	1/2" Dia	275.55	P.Rft	27555/-
9			Providing and Fixing Handle Value.			
	1.00	Nos.	1" Dia	1907.10	Each	1907/-
	3.00	Nos.	3/4" Dia	1848.60	Each	5546/-
	3.00	Nos.	1/2" Dia	1614.60	Each	4844/-
10	48.00	Rft	Providing, Laying RCC pipes & Collars of Class 'B' and fixing in trench i/c cutting, fitting and jointing with max phalt composition and cement mortar (1:1)i/c testing with water to a head of 22.5 meter or 75 (6" Dia)	332.29	P.Rft	15950/-
11	1.00	Nos.	Providing and fixing steel sinks stainless local bt make complete with cast iron or wrought iron LINA ALVH brackets 6 inches built into wall, 1-1/2" rubber plug and chrome plated brass chain 1-1/2" C.P. brass waste wvith 1 1/2" P.V.C. waste pipe & making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.(b) Steel Sink stainless size 36"x18" local make (standard patteren)	10215.27	Each	10215/-
12	1.00	No.	Providing & fixing 15"x12" bavelled edge mirror of Belgium glass completed with 1/8" thick hard and C.P. screws fixed to wooden cleats (Standard quality).	2340.00	Each	2340/-

13	1.00	No.	Supplying & fixing wash basin mixture of superior quality with C.P. head 1/2" dia.	3135.60	Each	3136/-
14	1.00	Nos.	Supplying & fixing jet shower with rod of superior quality with C.P. head 1/2" dia	3486.60	Each	3487/-
15	1.00	No.	Supplying & fixing Sink mixture cock of superior quality with C.P. head etc. complete	2550.60	P.Rft	2551/-
16	6.00	No.	Supplying & fixing long Bib -cock of Crystal head with C.Phead 1/2" dia	2784.60	P.Cft	16708/-
17			S/F PE (PRR) TEE (M.P) (N.S)			
	6.00	Nos.	1" Dia	176.00	Each	1056/-
	6.00	Nos.	3/4" Dia	96.00	Each	576/-
	6.00	Nos.	1/2" Dia	68.80	Each	413/-
18			S/F PE (PRR) elbow /socket union (N.S)			
	6.00	Nos.	Elbow 1/2" Dia	85.00	Each	510/-
	3.00	Nos.	Elbow 3/4" Dia	110.00	Each	330/-
	3.00	Nos.	Elbow 1" Dia	120.00	Each	360/-
	6.00	Nos.	Socket 1/2" Dia	85.00	Each	510/-
	3.00	Nos.	Socket 3/4" Dia	110.00	Each	330/-
	3.00	Nos.	Socket 1" Dia	120.00	Each	360/-
	6.00	Nos.	Union 1/2" Dia	120.00	Each	720/-
	8.00	Nos.	Union 3/4" Dia	150.00	Each	1200/-
	8.00	Nos.	Union 1" Dia	210.00	Each	1680/-
19	1.00	Nos.	Supplying & fixing Fiber glass tank of approved quality and design and wall thickness as specified including cost of nuts, bolts and fixing in plat form of cement concrete 1:3:6 and making connection for inlet, outlet and over flow pipes etc. complete. 500 gallons	69982.85	P.Cft	69983/-
20	1.00	Nos.	P/F A.C Electric Motor with donkry pump 1/2 BHP etc complete. (N.S)	19800.00	Each	19800/-
Total Sub- Group-III						250159/-
Total Sub- Group-I						3241634/-
Total Sub- Group-II						228498/-
Total Sub- Group-III						250159/-
Total 13						3720291/-
PART-14 SIGN BOARD						
1	1.00	No.	Providing & Fixing Rectangular shape 3'x2' comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each.	52117.78	Each	52118/-
Total (14)						52118/-

<u>ABSTRACT OF ZONE-C</u>				
Ite m	Quantity	Shedule Item	NSI	Total
6	PART-1 ALUM DOSING CHAMBER	139135.00	0.00	139135/-
7	PART-2 STORAGE TANK 120' X 70' 2 NOS.	12188609.00	0.00	12188609/-
9	PART-3 RISING MAIN 6" Dia (160mm) ST to F.BEDS	186329.00	0.00	186329/-
8	PART-4+A847 PUMPING MACHINERY AT WATER WORKS (ZONE-C)	782098.00	4132320.00	4914418/-
10	PART-5 SLOW SAND FILTER 35' X 65' 2 NOS.	27138863.00	0.00	27138863/-
11	PART-6 CLEAR WATER TANK 20' X 30'	5654500.00	0.00	5654500/-
2	PART-7 PUMP HOUSE 12'X 14'	1815664.00	0.00	1815664/-
3	PART-8 SHED FOR GENERATOR 10'X 12'	1181416.00	0.00	1181416/-
12	PART-09 DIESEL GENERATOR 100 KVA	0.00	5597790.00	5597790/-
13	PART-10 SOLAR ENERGY SYSTEM AT WATER WORKS	0.00	4845140.00	4845140/-
14	PART-11 DELIVERY MAIN 6" DIA (160mm)	4540893.00	0.00	4540893/-
15	PART-13 DISTRIBUTION SYSTEM	16926650.00	0.00	16926650/-
17	PART-13 STAFF QUARTER TYPE-III	3689246.00	31045.00	3720291/-
18	PART-14 SIGN BOARD	52118.00	0.00	52118/-
TOTAL ZONE C		74295521.00	14606295.00	88901816/-

<u>DRAINAGE SCHEME SANJAR CHANG</u>						
Ite m	Quantity		Discription of Item to be execute on site	Rate	Unit	Amount
1	2		3	4	5	6
PART-1 DESILTING & REPAIR OF OXIDATION PONDS (85' X 150')						
1	45504.00	Cft	Excavation for tanks and reservoirs in soft soil i/c trimming and dressing sides to true alignment design section/profiles and shape leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layers for construction of banks and dressing and disposal of surplus excavated earth within one chain as directed by Engineer in charge i/c providing fence guards lights flags where ever required lift upto 5'ft and lead upto one chain	15849.60	P.%0Cft	721220/-
2	41236.00	Cft	Earth work compaction by sheep roller and power roller with optimum moisture content for 85% modified AASHO	2681.79	P.%0Cft	110586/-
3	30.00	Days	Hire charges of pumping set of upto 10 H.P pumping out water from 10 ft. deep trench.	7468.80	P.Day	224064/-
4	45504.00	Cft	Earth work excavation in ashes, sand, soft soil or silt clearance undressed lead up to 50 ft.	7.45	P.Cft	339005/-
5	45504.00	Cft	Extra for wet earth.	4.75	P.Cft	216144/-
7	45504.00	Cft	Extra for every 50 ft additional lead or part thereof for earth work (soft, ordinary, hard and very hard. (GSI.No.8(a)-P/2).This rate shall apply to lead up to half mile. When the lead is more than half mile the lead shall be paid as carriage of material.(Lead 1 Miles).	753.43	P.%Cft	342841/-
8	1374.00	Cft	precast reinforced cement in colum, beams lintels stairs cases, shelves etc. (i) (II) Ratio 1 : 2:4 90 Lbs of cement, 2 Cft sand and 4 Cft shingle 1/8" to 3/4" gauge	689.28	P.Cft	947071/-
9	1374.00	Cft	Erecting and fixing in position precast cement concrete or stone charges. slab in roofs or lintels, etc, lift upto 20 feet including all charges.	126.23	P.Cft	173440/-
10	1644.88	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	175147/-
Total (1)						3249518/-
PART-2 PUMP HOUSE 12'X 14'						
1	275.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	3267/-
2	135.78	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	40285/-
3	220.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	85507/-
4	440.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	46851/-
5	378.94	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	144444/-
6	133.08	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	95497/-
7	5.94	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	108530/-
8	24.00	Sft	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill)	1124.10	P.Sft	26978/-
9	0.857	Cwt	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing but excluding erection in position	20366.45	P.Cwt	17454/-

10	0.857	Cwt	Errection and fitting in position of iron trusses staging of water tank etc	824.85	P.Cwt	707/-
11	242.34	Cft	Filling watering and ramming earth under floor with surplus earth from foundation lead upto one chain and lift upto 5 ft.	6.50	P.Cft	1575/-
12	28.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8" and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	76355/-
13			Providing and laying topping 1" thick cement concrete 1:2:4 including surface finishing and dividing into panels.			
	305.25	Sft	1" Thick	65.57	P.Sft	20015/-
	168.00	Sft	2" Thick	108.75	P.Sft	18270/-
14	1379.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	52099/-
15	1379.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	51037/-
16	2758.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	62414/-
17	1379.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	4951/-
18	639.00	Sft	Distemper 2 Coats	13.66	P.Sft	8729/-
19	638.50	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	40213/-
20	104.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	2654/-
Total 2						907832/-
PART-3 PUMPING MACHINERY AT DISPOSAL						
1	2.00	Set	Providing and installing in position i/c transportation at site work for Disposal scheme Allah Rakhio Pathan tando allahyar electric pumping set consist of electric motor 10.0 BHP 3-Phase 50 Cycle 400/420 Vols of 1450 RPM (Siemens) frame size 132 M coupled with non-clogingl pump KSB type KWP (65-315) size 3" x 2.5" mounted on common steel frame or base plate capable discharge of 200 GPM against the Head of 70 ft i/c installing of pumping set on C.C foundation i/c provoding & installing prpared board automatic MCU (KSB) consist of A.C 50 Cycles 3Phase 12/25 ampere trip rating push button type star delta starter complete with voltages & over load relayni/c fixing metaled board to accomodate main or submaincontrol switch recessed in the wall and testing of the pumping set against the required head & discharge per 72 hours etc complete. (N.S)	1577400.0	P.Set	3154800/-
2	1.00	Set	Providing and installing in position i/c transportation at site work for Disposal scheme Umaid Ali Dal taluka tando allahyar tando allahyar 16.0 BHP Deisel engine 2200 RPM coupled with non-clogingl pump KSB type KWP (65-315) size 3" x 2.5" mounted on common steel frame or base plate capable discharge of 200 GPM against the Head of 70 ft i/c installing of pumping set on C.C foundation and testing of the pumping set against the required head & discharge per 72 hours etc complete. (N.S)	1186800.0	P.Set	1186800/-
3	85.00	Rft	manufacturing & installing m.s pipe made out of m.s sheet of 3/16" thick cutting and folding to required curvature and shape i/c welding etc complete (R.A based on Schedule)	2300.06	P.Rft	195505/-

4	20.00	Nos.	Providing & Fixing M.S Flange Made out of M.s Plate having thickness 3/8" Drilling holes cutting etc complete 4" Dia	2889.00	Each	57780/-
5	2.300	Cwt	C.I Bend, Trapper & Tee with Flange ends with holes i/c tuning & facing of flange for all size	18288.00	P.Cwt	42062/-
6	1.00	No.	C.I Short piece 6" Dia	3900.00	Each	3900/-
7	3.00	Nos.	C.I foot valve heavy pattern with cone type gate. 3" Dia	5500.00	Each	16500/-
8	3.00	Nos.	C.I Sluice valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/s q.inch). 3" Dia	8200.00	Each	24600/-
9	3.00	Nos.	C.I Reflex valve heavy pattern (test pressure 21 kg/sq.cm or 300lbs/sq.inch).(imported). 3" Dia	6500.00	Each	19500/-
10	72.00	Rft	Providing & laying (MAIN or SUB-MAIN) PVC insulated with size 03-7/0.36](4mm2) copper conductor in 3/4" dia PVC conduit on surface	916.79	P.Rft	66009/-
11	1.00	Nos.	Providing and fixing earthing set with 2'x2'x1.4" copper plate buried in ground at a depth of 12' or less of water come out from the ground level with salt and charcoal etc	30191.00	Each	30191/-
12			Jointing C.I/M.S flange pipe & special flanged nside trench i/c supporting rubber packing of the required thickness, nuts and bolts with washers etc and other tool required for jointing & testing the joint to the specified pressure etc complete			
	23.00	Joints	(i) 4" dia	1701.02	P.Joint	39123/-
	8.00	Joints	(i) 3" dia	1562.07	P.Joint	12497/-
Total 3						4849267/-
PART-4 RISING MAIN 6" Dia (160mm) ST to F.BEDS						
1	1800.00	Cft	Dismantling brick work in lime or cement mortar	26.93	P.Cft	48474/-
2	39937.50	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	730377/-
3	5300.00	Rft	Providing, laying & fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene P.E Pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051. 6" Dia 160mm	1011.05	Rft	5358565/-
4	4.00	Nos.	P.E Special for P.E Pressure Pipe standard wet for ACIL B Class. P.E Elbow 45o(PN-08) 6" Dia 160mm	4246.00	Each	16984/-
5	4.00	Nos.	P.E Elbow 90o(PN-08) 6" Dia 160mm	5306.00	Each	21224/-
6	4.00	Nos.	HDPE-100 FLANGE ADOPTOR / STAB ENDS (PN-10) 6" Dia 160mm	5164.00	Each	20656/-
7	4.00	Nos.	Supply Single Acting Air valve over PVC & P.E Pipe or required dia comprising of MS Puddle Collar tee required size with 3/8" thick MS Plate 1-1/4: wide (1-No) MS Flange (3-Nos) 3/8" thick MS Sheet, MS Pipe of required size made out of 3/16"thick MS Sheet 3' long, Air Valve 3" Dia (1-No) MS Fabricated Ring comprising on 1/2" Dia bar 4" center rate also i/c C.I Plate fixed over top of pipe,also i/c rubber packing of the required thickness nuts bolts with washer and painting of pipes & special etc complete Double Acting 6" Dia 160mm	21450.00	Each	85800/-
8	12.00	Nos.	But Fusion Joint. 6" Dia (15	1560.00	Each	18720/-
9	37563.75	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P%0Cft	526674/-
Total (4)						6827474/-

PART-5 SURFACE DRAINS						
1	88930.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	1056488/-
2	19157.50	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:4:8	348.83	P.Cft	6682711/-
3	50700.00	Cft	Pacca brick work in foundation and plinth in Cement Sand Mortar 1:6.	359.20	P.Cft	18211440/-
4			Construction of stardard open drain cunceret block of CC 1:2:4 in situ to the design profile i/c cost of mould as per drawing i/c applying floating coat of cement 1/32" thick to the exposed face finished smooth curing etc complete as per detailed drawing			
	21500.00	Rft	Type-A	585.60	P.Rft	12590400/-
	8200.00	Rft	Type-B	1014.00	P.Rft	8314800/-
5	89104.00	Sft	Cement plaster 1:4 upto 12' hieight 1/2" Thick	39.83	P.Sft	3549012/-
7	89104.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	2016424/-
8	6491.28	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	4658078/-
9	231.83	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	4235768/-
Total 5						61315121/-
PART-6 SOAK PIT 10' DIA						
1			Excavation of Well in dry upto 20' below ground level and disposal of Soil within one chain (in ordinary soil or sand)			
	883.13	Cft	0' to 5'	9.82	P.Cft	8672/-
	883.13	Cft	5' to 10'	11.25	P.Cft	9935/-
2	31.83	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:4:8	348.83	P.Cft	11103/-
3	300.00	Cft	Perforated pacca brick walling 9" thick in ground floor in: (GSI No. 17/vi P-18). Cement sand mortar. 1:6	224.36	P.Cft	67308/-
4	50.00	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	35880/-
5	2.00	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	36542/-
6	1.00	Cwt	P/F C.I Manhole Cover with Frame i/c Cost of Materials	19188.00	P.Cwt	19188/-
Total						188628/-
Total(6) 10 x 188628/- =						1886280/-

PART-7 CC PAVER BLOCK						
1	106502.00	Cft	Borrow pit excavation undressed lead upto 100 Cft. Ordinary soil	7.29	P.Cft	776400/-
2	106502.00	Cft	Earth work compaction Compaction of earth work (Soft, ordinary or hard soil). (b) Laying earth in 6" layers levelling dressing and watering for compaction etc. complete	1.58	P.Cft	168273/-
3	35145.66	Cft	Cement Concrete brick or stone ballast 1.1/2" to 2" guage. Ratio 1:4:8	296.69	P.Cft	10427366/-
4	1210.25	Cft	Cement concrete plain i/c placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ratio 1:3:6	388.67	P.Cft	470388/-
5	2420.50	Sft	Errection and removal of centering of RCC or Plain Cement Concrete work for Partal wood (Vertical)	106.48	P.Sft	257735/-
6	9682.00	Rft	Providing & fixing Precast Edge Block 3750 PSI Industrial Made Size 6 inches thick x 12 inches long x 18 inches high including the cost of Cartage, excavation,form Work for haunching, 1450 PSI lean concrete, 2250 PSI concrete for haunching, 1:4 cement sand mortor. Kerb Stone.	678.38	P.Rft	6568075/-
7	32918.80	Cft	Hard murrum or five powdery murrum.	2150.00	P.%Cft	707754/-
8	193640.00	Sft	Providing & fixing cement paving blocks flooring having size of 197x97x60 (mm) of city / quddra /cobble shape with natural colours, having strength b/w 5000 PSI to 8500 PSI i/c filling the joints with hill sand over a bed of 2" thick hill sand or stone dust and laying and compacting in specified manner/ pattern and design etc complete.	197.48	P.Sft	38240027/-
9	106502.00	Cft	Carriage of 100 Cft:/ 5 tons material like stone aggregate sprawl coal lime surkhi etc BG rail fastening points and crossing bridges and girders pipes sheets rails M.S bars etc on 1000 Nos: bricks 10 x 5 x 3" or 1000 Nos: tiles 12 x 6 x 2" or 150 Cft: timbers of 100 moulds or fuel wood by truck or any other means owned by the contractor. (Shedule Carriage) Lead 1 Miles	753.43	P.%Cft	802418/-
Total 7						58418436/-
PART-8 COMPOUND WALL (230' x 200') ARROUND DISPOSAL						
1	2574.00	Cft	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(in Ordinary Soil)	11.88	P.Cft	30579/-
2	641.25	Cft	Cement concrete brick or stone ballast 1 1/2" to 2" gauge.(b) Ratio 1 : 4 : 8	296.69	P.Cft	190252/-
3	6744.00	Sft	Erection and removal of centering for RCC or plain cement concrete work of partial wood (2nd (b) verified	106.48	P.Sft	718101/-
4	3372.00	Cft	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Ratio 1:3:6	388.67	P.Cft	1310595/-
5	1389.77	Cft	Pacca brick work in Ground floor in Cement Sand Mortar 1:6.	381.18	P.Cft	529753/-
6	86.00	Cft	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.)(a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.(l) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge	717.59	P.Cft	61713/-
7	3.46	Cwt	Fabrication of mild steel (Tor Bar) reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) tor bar	18271.01	P.Cwt	63218/-
8	7139.00	Sft	Cement plaster 1:4 upto 12' hieight 3/8" Thick.	37.78	P.Sft	269711/-
9	7139.00	Sft	Cement plaster 1:6 upto 12' hieight 1/2" Thick	37.01	P.Sft	264214/-
10	14278.00	Sft	Applying floating coat of Cement 1/32" thick.	22.63	P.Sft	323111/-

11	72.00	Sft	Making & fixing steel grated door with 1/16" thick sheeting including angle iron frame 2" x 2" 3/8"and 3/4" square bars 4" centre to centre with locking arrangemtnt.	2726.96	P.Sft	196341/-
12	7139.00	Sft	Priming Coats of chalk distemper	3.59	P.Sft	25629/-
13	7139.00	Sft	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make	62.98	P.Sft	449614/-
14	156.00	Sft	Preparing surface and painting of doors and windows any type, (including edges).(3Coats)	25.52	P.Sft	3981/-
Total (8)						4436812/-
<u>PART-9 SIGN BOARD</u>						
1	1.00	No.	Providing & Fixing Rectangular shape 3'x2' comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each.	52117.78	Each	52118/-
Total (14)						52118/-
<u>ABSTRACT OF DRAINAGE SCHEME SANJAR CHANG</u>						
Ite m	Quantity			Shedule Item	NSI	Total
1	PART-1 DESILTING & REPAIR OF OXIDATION PONDS (85' X 150')			3249518.00	0.00	3249518/-
2	PART-2 PUMP HOUSE 12'X 14'			907832.00	0.00	907832/-
3	PART-3 PUMPING MACHINERY AT DISPOSAL			507667.00	4341600.00	4849267/-
4	PART-4 RISING MAIN 6" Dia (160mm) ST to F.BEDS			6827474.00	0.00	6827474/-
5	PART-5 SURFACE DRAINS			61315121.00	0.00	61315121/-
6	PART-6 SOAK PIT 10' DIA			1886280.00	0.00	1886280/-
7	PART-7 CC PAVER BLOCK			58418436.00	0.00	58418436/-
8	PART-8 COMPOUND WALL (230' x 200') ARROUND DISPOSAL			4436812.00	0.00	4436812/-
9	PART-9 SIGN BOARD			52118.00	0.00	52118/-
TOTAL ZONE D				137601258.00	4341600.00	141942858/-
<u>PROVIDING & INTALLING SOLAR LED STREET LIGHTS 200 WATTS FOR VILLAGE SANJAR CHANG AND SURROUNDINGS DISTRICT TANDO ALLAHYAR</u>						
<u>LOCATION 1 WATER WORKS 3x7 NOS. LIGHTS</u>						
1	21.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	4673508/-
2	3.00	Jobs	Providing & Installing Solar System for 7 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	2740068	P.Job	8220204/-
3	3.00	No.	Pacca Brick Room 8' x 8'	628447.00	Each	1885341/-
4	7500.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	137160/-
5	3000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	485340/-
6	21.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	4410/-
7	42.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	10323/-
8	6750.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	94640/-
9	3000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	1225470/-
Total (1)						16736396/-

LOCATION 2VILLAGE SANJAR CHANGE 30 NOS. LIGHTS						
1	30.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	6676440/-
2	1.00	Jobs	Providing & Installing Solar System for 30 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	10960272	P.Job	10960272/-
3	1.00	No.	Pacca Brick Room 12' x 14'	1003288	Each	1003288/-
4	7500.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	137160/-
5	3000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	485340/-
6	30.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	6300/-
7	60.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	14747/-
8	6750.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	94640/-
9	3000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	1225470/-
Total (2)						20603657/-
LOCATION 3 VILLAGE DHOURO BHAI KHA 15 NOS.						
1	15.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	3338220/-
2	1.00	Jobs	Providing & Installing Solar System for 7 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	5480136	P.Job	5480136/-
3	1.00	No.	Pacca Brick Room 8' x 8'	628447.00	Each	628447/-
4	5000.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	91440/-
5	2000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	323560/-
6	15.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	3150/-
7	30.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	7373/-
8	4500.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	63094/-
9	2000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	816980/-
Total (3)						10752400/-

LOCATION 4 VILLAGE BIJAR KHAN LAGHARI 30 NOS. LIGHTS						
1	30.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	6676440/-
2	1.00	Jobs	Providing & Installing Solar System for 30 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	10960272	P.Job	10960272/-
3	1.00	No.	Pacca Brick Room 12' x 14'	1003288	Each	1003288/-
4	7500.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	137160/-
5	3000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	485340/-
6	30.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	6300/-
7	60.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	14747/-
8	6750.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	94640/-
9	3000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	1225470/-
Total (4)						20603657/-
LOCATION 5 VILLAGE ALIABAD 15 NOS.						
1	15.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	3338220/-
2	1.00	Jobs	Providing & Installing Solar System for 7 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	5480136	P.Job	5480136/-
3	1.00	No.	Pacca Brick Room 8' x 8'	628447.00	Each	628447/-
4	5000.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	91440/-
5	2000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	323560/-
6	15.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	3150/-
7	30.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	7373/-
8	4500.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	63094/-
9	2000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	816980/-
Total (5)						10752400/-

LOCATION 6 VILLAGE BACHAL NOODANI 15 NOS.						
1	15.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	3338220/-
2	1.00	Jobs	Providing & Installing Solar System for 7 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	5480136	P.Job	5480136/-
3	1.00	No.	Pacca Brick Room 8' x 8'	628447.00	Each	628447/-
4	5000.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	91440/-
5	2000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	323560/-
6	15.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	3150/-
7	30.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	7373/-
8	4500.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	63094/-
9	2000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	816980/-
Total (6)						10752400/-
LOCATION 7 VILLAGE MIR MUHAMMAD LAGHARI 15 NOS.						
1	15.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	3338220/-
2	1.00	Jobs	Providing & Installing Solar System for 7 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	5480136	P.Job	5480136/-
3	1.00	No.	Pacca Brick Room 8' x 8'	628447.00	Each	628447/-
4	5000.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	91440/-
5	2000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	323560/-
6	15.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	3150/-
7	30.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	7373/-
8	4500.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	63094/-
9	2000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	816980/-
Total (7)						10752400/-

LOCATION 8 VILLAGE BUKHIO JO PAR 15 NOS.						
1	15.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	3338220/-
2	1.00	Jobs	Providing & Installing Solar System for 7 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	5480136	P.Job	5480136/-
3	1.00	No.	Pacca Brick Room 8' x 8'	628447.00	Each	628447/-
4	5000.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	91440/-
5	2000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	323560/-
6	15.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	3150/-
7	30.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	7373/-
8	4500.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	63094/-
9	2000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	816980/-
Total (8)						10752400/-
LOCATION 9 VILLAGE PUNO COLONY 30 NOS. LIGHTS						
1	30.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	6676440/-
2	1.00	Jobs	Providing & Installing Solar System for 30 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	10960272	P.Job	10960272/-
3	1.00	No.	Pacca Brick Room 12' x 14'	1003288	Each	1003288/-
4	7500.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	137160/-
5	3000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	485340/-
6	30.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	6300/-
7	60.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	14747/-
8	6750.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	94640/-
9	3000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	1225470/-
Total (9)						20603657/-

LOCATION 10 VILLAGE ESHWAR COLONY 15 NOS.						
1	15.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	3338220/-
2	1.00	Jobs	Providing & Installing Solar System for 7 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	5480136	P.Job	5480136/-
3	1.00	No.	Pacca Brick Room 8' x 8'	628447.00	Each	628447/-
4	5000.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	91440/-
5	2000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	323560/-
6	15.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	3150/-
7	30.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	7373/-
8	4500.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	63094/-
9	2000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	816980/-
Total (10)						10752400/-
LOCATION 11 VILLAGE REHMAN NOODANI+A1352 15 NOS.						
1	15.00	Nos.	Providing and installing street light 200 watt with Pole, arm, foundation wiring etc complete (N.S)	222548.00	Each	3338220/-
2	1.00	Jobs	Providing & Installing Solar System for 7 Street light of 200 watts with Battery backup upto 10 hrs with Wiring etc Complete. (N.s)	5480136	P.Job	5480136/-
3	1.00	No.	Pacca Brick Room 8' x 8'	628447.00	Each	628447/-
4	5000.00	Cft	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m).	18288.00	P.%0Cft	91440/-
5	2000.00	Rft	Providing, Laying uPVC pipes of Class 'C' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c testing with water to a head of 91.5 meter or 300 ft. 2" Dia	161.78	P.Rft	323560/-
6	15.00	No.	Tee 2" (CPVC SCH-40)	210.00	Each	3150/-
7	30.00	Joints	Making Joints to PVC specials fitting (i/c laying of specials and cost of solvent cement) of required diameter and testing the joints along with PVCpipeline 'B' 'C' and 'D' class to the specified pressure and making good to all leaky joints etc complete.	245.78	P.Joint	7373/-
8	4500.00	Cft	Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc. complete.	14020.80	P.%0Cft	63094/-
9	2000.00	Rft	Providing & laying (MAIN or SUB MAIN) PVC Sheeted with two core copper conductor 300/500 volts size 6mm2	408.49	P.Rft	816980/-
Total (11)						10752400/-

ABSTRACT OF PROVIDING & INTALLING SOLAR LED STREET LIGHTS 200 WATTS FOR VILLAGE SANJAR CHANG AND SURROUNDINGS DISTRICT TANDO ALLAHYAR				
Item	Quantity	Shedule Item	NSI	Total
1	LOCATION 1 WATER WORKS 3x7 NOS. LIGHTS	3842684.00	12893712.00	16736396/-
2	LOCATION 2VILLAGE SANJAR CHANGE 30 NOS. LIGHTS	2966945.00	17636712.00	20603657/-
3	LOCATION 3 VILLAGE DHOURO BHAI KHA 15 NOS.	1934044.00	8818356.00	10752400/-
4	LOCATION 4 VILLAGE BIJAR KHAN LAGHARI 30 NOS. LIGHTS	2966945.00	17636712.00	20603657/-
5	LOCATION 5 VILLAGE ALIABAD 15 NOS.	1934044.00	8818356.00	10752400/-
6	LOCATION 6 VILLAGE BACHAL NOODANI 15 NOS.	1934044.00	8818356.00	10752400/-
7	LOCATION 7 VILLAGE MIR MUHAMMAD LAGHARI 15 NOS.	1934044.00	8818356.00	10752400/-
8	LOCATION 8 VILLAGE BUKHIO JO PAR 15 NOS.	1934044.00	8818356.00	10752400/-
9	LOCATION 9 VILLAGE PUNO COLONY 30 NOS. LIGHTS	2966945.00	17636712.00	20603657/-
10	LOCATION 10 VILLAGE ESHWAR COLONY 15 NOS.	1934044.00	8818356.00	10752400/-
11	LOCATION 11 VILLAGE REHMAN NOODANI+A1352 15 NOS.	1934044.00	8818356.00	10752400/-
TOTAL ZONE E		26281827.00	127532340.00	153814167/-
GENERAL ABSTRACT				
Item	SCHEME	Shedule Item	NSI	Total
1	WATER SUPPLY SCHEME WITH SLOW SAND FILTRATION FOR ZONE-A	148716876.00	27613774.00	176330650/-
2	WATER SUPPLY SCHEME WITH SLOW SAND FILTRATION FOR ZONE-B	93032289.00	19620559.00	112652848/-
3	WATER SUPPLY SCHEME SANJAR CHANG	74295521.00	14606295.00	88901816/-
4	DRAINAGE SCHEME SANJAR CHANG	137601258.00	4341600.00	141942858/-
5	PROVIDING & INTALLING SOLAR LED STREET LIGHTS 200 WATTS FOR VILLAGE SANJAR CHANG AND	26281827.00	127532340.00	153814167/-
GRAND TOTAL		479927771.00	193714568.00	673642339/-
PUBLIC HEALTH ENGG: DIVISION TANDO ALLAHYAR				
CONDITIONS				
1. Any error or omissions in the description of items, rates, units, quantity & calculation will be governed by the relevent schedule of rates.				
2. The Contractor must remove the surplus earth, material, garbage from site of work on his own cost.				
3. No Premium will be allowed on non-shedule items & market rates.				
4. No separate cartage will be paid to the contractor.				
5. The work will be completed within specified period.				
6. the Contractor is bound to work will be carried out as per agreement and standart PWD specification				
7. supply of any material i/c pumping Machinery Pumps and all kind of pipes payment made to the contractor of the verification of supply dealer/factory.				
8. in condition of supply material should be produce payment certificate of sale tax other wise sale tax may be deducted from contractor bill.				
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EXECUTIVE ENGINEER (DEV) PUBLIC HEALTH ENGG: DIVISION				
CONTRACTOR				