

RAJKOT MUNICIPAL CORPORATION

RAJKOT

Augmentation Work With SITC Of Electrical, Mechanical Works With 2 Years Comprehensive O & M For Existing WDS At Vinodnagar Pumping Station of RMC-Rajkot.(RE-TENDER)

Tender No: **RMC/WATER O&M CELL/Aji Vinodnagar/01**

VOLUME – III

Price Bid

YEAR 2024-25

Milestone dates for e-tendering is as under		
1.	Downloading of e-Tender documents	25-11-2024 to 09-12-2024 up to 18:00 hrs
2.	Pre-bid meeting Date:- 02-12-2024 at East Zone Office Room no.12 First Floor RMC at 04:00 PM.	Bidders shall have to post their queries if any on e-mail dytrivedi@rmc.gov.in before date 02-12-2024.
3.	Online submission of e-Tender (Tech. bid)	09-12-2024 up to 18:00 hrs
4.	Physical submission of EMD , e-Tender fee and all other documents should be submitted online.	16-12-2024 up to 18:00 hrs
5.	Verification of submitted documents (EMD, e - Tender fee, etc. and Opening of online tender (Tech.bid)	18-12-2024 (If possible)
6.	Opening of Price Bid (if possible)	20-12-2024 (If possible)
7.	Bid Validity	120 days.

**Add.City Engineer
Water Management Unit
Rajkot Municipal Corporation
Zaverchand Meghani Bhavan
East Zone Office - Room No -12
Bhavnagar Road – Rajkot
E mail : dytrivedi@rmc.gov.in**

VOLUME III

CONTENTS

- 1.0 **FORM OF PRICE PROPOSAL**
- 2.0 **SCHEDULES OF RATES & PRICES**
 - SCHEDULE A - PAYMENT SCHEDULE
 - SCHEDULE B - PRICE
 - SCHEDULE C - BILL OF QUANTITIES (BOQ)
 - SCHEDULE D - BUY BACK
 - SCHEDULE E - COST OF O & M FOR 2 YEARS

FORM OF PRICE PROPOSAL

Bidders are required to fill up all blank spaces in this Bid Form

To
**Municipal Commissioner,
Rajkot Municipal Corporation
Dr.Ambedkar Bhava
Dhebarbhai Road
RAJKOT - 360 001**

SUB : Augmentation Work With SITC Of Electrical, Mechanical Works With 2 Years Comprehensive O&M for Existing WDS at Vinodnagar Pumping Station of RMC-Rajkot.

We have examined the Conditions of Contract, Employer's Requirements, Schedules, Addenda Nos _____ and the matters set out in the Appendix hereto. We have understood and checked these documents and have not found any errors in them. We accordingly offer to design, execute commission and to maintain for the two years the said Works and remedy any defects, fit for purpose in conformity with these documents and the enclosed Proposal, for the fixed lump sum of Rs. _____ or other such sums as may be determined in accordance with the terms and conditions of the Contract. The above amounts are in accordance with the Price Schedules herewith and are made part of this bid.

We agree to abide by this Bid until 180 days and it shall remain binding upon us and maybe accepted at any time before that date. We acknowledge that the Appendix forms part of our Bid.

If our bid is accepted, we will provide the specified performance security, commence the Works as soon as reasonably possible after receiving the Employer's Representative's notice to commence, and complete the Works in accordance with the above-named documents within the time stated in the Appendix to Technical Proposal.

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.

We understand that you are not bound to accept the lowest or any bid you may receive.

We are, Gentlemen
Yours faithfully

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

Address

Date _____

SCHEDULES OF RATES & PRICES

Note on Schedule

1. The bid is percentage rate bid for Augmentation Work With SITC Of Electrical and Mechanical Works With 2 Years O & M For Existing WDS At Vinodnagar Pumping Station of Rajkot Municipal Corporation , Rajkot.
2. The rates and prices shall be submitted in the formats given in the online Price Schedules. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
3. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
4. In Price Schedule, bidder shall quote his percentage equal/above/below for items listed in the online schedule .Prices quoted in online Schedule only will be considered for price evaluation& shall form part of the Contract Agreement.
5. Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
6. The bidder shall be deemed to have allowed in his price for provision, maintenance and final removal of all temporary works of whatsoever nature required for construction including temporary bunds, dewatering, diverting water, pumping, providing civil foundation, required civil modification, rectification, finishing work etc. to complete the Electro-Mechanical works. The rates shall also be deemed to include any work sand setting out that may be required to be carried out for the same.
7. Where there is a discrepancy between the unit rates and the amount entered in the price schedule the later shall govern.
8. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.
9. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.
10. The bidder shall interpret the data furnished and carry out any additional study, investigation or planning required to execute the work shall be this own cost.
11. The prices quoted shall also include the cost of testing and material utilized for testing.
12. The bidder should acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to work sites at this own cost. These accesses will be used by the other contractors working For RMC.
13. **From each Running Account Bill, labour cess will be deducted as per norms.**

The contractor shall have to avail P.F & E.S.I as per the applicable laws of Government. The required documents shall have to be submitted by the contractor to the competent authority.

14. The quoted rates should be exclusive GST and inclusive of all other taxes and duties.
15. The contractor shall have to quote their rates excluding GST and including other taxes and the Invoice with break-up of GST is to be submitted accordingly, failing which, such amount will be deducted from the bill of the agency and deposited accordingly. RMC shall pay prevailing rate of GST. The contractor shall have to purchase the material required for this tender work, only from the supplier having registered GST Number. RMC will not be responsible to pay any amount towards GST if the material is purchased from the unregistered supplier/not having GST Number.
16. The work contract tax will be borne by the agency.
17. The Electro-Mechanical equipment and pipes shall be inspected by Third Party Inspection Agency PMC & RMC engineers, the costs of which are to be borne by contractor.

Signature of Contractor

Rajkot Municipal Corporation

Water Management Unit – East Zone

Name of work:-Augmentation Work With SITC Of Electrical and Mechanical Works With 2 Years Comprehensive O & M For Existing WDS At Vinod nagar Pumping Station of RMC-Rajkot.

::SCHEDULE-B::

**SUMMARY OF COST ESTIMATE OF PS VINODNAGAR
(CAPITALCOST+O & M COST FOR 2 YEARS)**

(BOQ & RATES FOR EACH AS PER SCHEDULE-B, ATTACHED IN SEPARATE FOLDER)

Sr. No	Name	Location of Pumping Station	Capital Cost	O & M Cost (02 Years)	Buy Back Amount	Total Amount
1	PS	VINODNAGAR	1,73,54,740/-	32,71,423/-	8,26,000/-	1,98,00,163/-

I/We agree to carry out the above work at _____% (In Fig)
(_____ (In words) Equal/Above/Below the
estimated cost.

Note:

Contractor Shall Have To quote the rates in the given online Price Bid only.

Signature of Contractor:

::SCHEDULE-A::

PAYMENT SCHEDULE

Schedule of Payment % Break-up of payment for each component of the Pumping Machinery during Supply, Installation, Trial Run & Commissioning.

Sr. No.	Break-Up	%of quoted Amount
1.	On supply of equipment at site	65%
2.	On erection, testing and commissioning of equipment	25%
3.	After satisfactory completion of SITC period + 30 Days Trial Run Period.	10%
	TOTAL	100 %

Note:- Trial Run period of 30 Days is excluding of O&M period.

Schedule of Payment % Break-up of operation & Maintenance component of 2Years.

Sr.No	Break-up	%of quoted amount of Respective Comprehensive Maintenance
1.	Quarter I of each respective year	24%
2.	Quarter II of each respective year	24%
3.	Quarter III of each respective year	24%
4.	Quarter IV of each respective year	24%
	On handing over the plant/pumping station to owner	04%
	Total	100%

Note:

- As per above a total of 4% of each year of Comprehensive Maintenance shall be retained by client & shall be released at the end of comprehensive maintenance period and handing over the plant / pumping station To owner / client.
- Any other items not specified above but considered necessary for completion of work to the satisfaction of Engineer-in-charge and efficient operation of the plant / PS.
- After commissioning the plant/pumping station comprehensive maintenance shall be the responsibility of the Contractor to run Plant/pumping station for **2-years (24 months)** period and after that plant/pumping station should be handed over to the Client(RMC).

Contractor's Signature

**Addl City Engineer
Rajkot Municipal Corporation**

::SCHEDULE-C::

BILL OF QUANTITIES (BOQ)

(BOQ & RATES WITH COST SUMMARY FOR THE WDS ATTACHED SEPARATELY)

RAJKOT MUNICIPAL CORPORATION					
WATER MANAGEMENT UNIT O&M SHELL - EAST ZONE					
ESTIMATE - A (Mechanical)					
NAME OF WORK:- AUGMENTATION WORK WITH SITC OF ELECTRICAL AND MECHANICAL WORKS FOR WDS AT VINODNAGAR PUMPING STATION OF RMC					
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT
1.1.1	<p>MECHANICAL WORK: HORIZONTAL SPLIT CASE CENTRIFUGAL PUMP (W/O MOTOR) Supply, Installation, Testing and Commissioning (SITC) of horizontal mounted, side suction & side delivery type Horizontal Split Casing Centrifugal Pump having CI Casing, CF8M impeller & wear rings, SS410 Shaft & shaft sleeves, Mechanical Seals, and suitable to couple with existing Induction Motor. The scope also include all required accessories viz. MSEP drain rim type base plate base frame (Hole Match with Existing motor), Flex. coupling, coupling guard, foundation bolts, min 25 mm dia. G.I. Class- B drain pipe up to drain channel, etc. complete as per IS/IEC and Specification and also including in scope any other parts / accessories / fittings as required to complete the work in all respects & satisfactory operation of pump set. Pump Capacity : 900 m³ / hr., Head : 35 m, Pump efficiency at Duty : mini. 84 % Existing Motor Rating: 125 kW (Note : Use Existing Motor)</p>	6	Set	650,000	3,900,000
2.1.1	<p>VALVES SITC of Manually Gear Operated CI / DI Double Flanged, Rising Spindle type, Sluice Valve conforming to IS 14846, PN 1.0 with SS 304 seat rings and SS spindle with hot dipped galvanised hardware's, bolts, nuts & washers, gaskets, etc. as per data sheet. Size : 450 mm NB (On Suction of each HSCF Pump)</p>	6	NOS.	67,251	403,506
2.2.1	<p>SITC of Electric actuator operated CI / DI Double Flanged, Rising Spindle type, Sluice Valve with actuator, integral starter,etc. conforming to IS 14846, PN 1.0 with SS 304 seat rings and SS spindle with all hot dipped galvanised hardware's, bolts, nuts & washers, gaskets, etc. as per specifications. Size : 400 mm NB (On delivery of each HSCF pump)</p>	6	Nos.	176,411	1,058,466
2.3.1	<p>SITC of double flanged CI/ DI Dual Plate Check Valve conforming to API 594 Class 125/PN1.0 with CS-WCB dual door, hinge pin & stop pin of SS 410 , springs of AISI 304 and seat rings of SS 304 (renewable), along with all required accessories, gaskets and hardwares,etc. and as per specification. Size: 400 mm NB (On delivery of each HSCF pump)</p>	6	NOS.	82,266	493,596
3.1.1	<p>SITC of CI flanged Reducer / Expander conforming to IS 1538 with gaskets, hardware and required accessories as per specifications/IS. Size: 400 mm X 250 mm X 600mm (L) (Eccentric Expander on Delivery of HSCF pump, delivery flange-250 mm or size as per actual pump Delivery flange size) - approx. 96 kg.</p>	6	Nos.	7,482	44,892
3.2.1	<p>Item Description as per 3.1.1 and of following size complete in all respect. Size: 450 mm X 350 mm X 600 mm (L) (Eccentric Reducer on Suction of HSCF pump, suction flange-350 mm or size as per actual pump Suction flange size)- approx. 145 kg.</p>	6	Nos.	8,410	50,460
3.3.1	<p>Supply, installation, testing and commissioning of Flange ends Expansion Bellow (PN 1.0) as per EJMA standards and complete with gaskets, hardware, and required accessories as per IS & Specifications. Size: 400 mm NB x 300 mm (L) (on delivery of each pump)</p>	6	Nos.	16,500	99,000
3.3.2	<p>Item Description as per 3.3.1 and of following size complete in all respect. Size: 450 mm NB x 300 mm (L) (on Suction of each pump)</p>	6	Nos.	18,780	112,680

4.1.1	MS PIPES & SPECIALS: Supply, Gas cutting of pipe, Fabrication, welding, Installation, testing and commissioning of MS pipe & Specials , reducer, expander, bend, Y-Joint, TEE etc. conforming to IS 3589 & flanges confirming to IS 6392-PN-1.0, fabricated from MS. plate with necessary supports & anchoring. Pipe fabricated from MS plate. (Excluding supply of flange) Size : 406.4 mm OD X Mini. 7.1 mm Thk	12	RMT	5,469	65,628
4.1.2	MS PIPES & SPECIALS: Gas cutting of pipe, Fabrication, welding, Installation, testing and commissioning of MS pipe & Specials, reducer, expander, bend, Y- Joint, TEE etc. conforming to IS 3589 & flanges confirming to IS 6392-PN-1.0, fabricated from MS. plate with necessary supports & anchoring. Pipe fabricated from MS plate. (Excluding supply of flange) (pipe will supply by RMC) Size : 813 mm OD X Mini. 8.0 mm Thk	24	RMT	736	17,664
4.2.1	Supply, welding , Installation, testing & commissioning of MS flat machined faced flanges confirming to IS 6392 & drilled as per IS- 1538 with drilling off centre bolt holes and flange thickness as per PN 1.0 including cutting & welding. Size : 450 mm NB (Drilled)	6	Nos.	3,983	23,898
4.2.2	Item Description as per 4.2.1 and of following size complete, Size : 400 mm NB (Drilled)	6	Nos.	3,540	21,240
4.2.3	Item Description as per 4.2.1 and of following size complete, Size: 450 mm NB - Drilled Blind - for suction	1	Nos.	4,000	4,000
4.2.4	Item Description as per 4.2.1 and of following size complete, Size: 400 mm NB - Drilled Blind - for Del.	1	Nos.	4,940	4,940
4.3.1	G.I. PIPES & FITTINGS: Supply, installation, connection with equipments as required, testing and commissioning of GI pipe conforming to IS-1239 , Heavy Duty with coupling, tee, bend, union, elbow, flanges , etc as all required fittings for connection complete with gaskets, hardware, and required accessories as per IS & Specifications Size: 100 mm NB	40	RMT	1026	41,040
4.4.1	Flanged Joints of Pipes, Fittings and Specials: Supply, Installation, Making of Flanged CI / MS / GI Pipes, Fittings and Specials Joints with all jointing materials, rubber packing, nut bolts, labour etc.for complete connection. Size: 400 mm dia.	6	NOS.	1,699	10,194
5.1.1	Providing, Supply of Structure Steel at site of work with freight, loading, unloading carting, etc. including all taxes and duties complete such as joints, channels, angles, Iron Rails, MONORAIL, ISA/ISMC/ISMB/MS flat, Plates, Chequered plates (below 10mm thickness) for cable trench etc. required for support structure of all Electro-mechanical equipment, piping, etc. for support on floor / wall / beam / brackets etc. as per tender and IS.	2000	kg.	64.838	129,676
5.1.2	Labour Charges for lowering, laying, Fixing with fabrication various size section of MS such as joints, channels, angles, Iron Rails, ISA/ISMC/ISMB/MS flat, Plates, Chequered plates, for cable trench etc Complete with two coats of red oxide and two coats of approved colour shade of epoxy paint as per relevant IS and as per specification.	2000	kg.	11.365	22,730
6.1.1	DEWATERING / DRAIN PUMP (FOR DRY WELL) SITC of Non Clog Submersible Dewatering Pump with C.I. casing & CF8M impeller, including necessary accessories and hardwares, etc., 25m cable as required suitable for 3 Phase, 415 V, 50 Hz AC supply with min. 5 HP motor and necessary safety features along with required starter panel, pump monitoring unit for auto stop facilities, cable termination / junction box of required terminal size, supporting arrangement for pump and other required accessories to be installed in dry well drain pit. Pump Capacity: 100 m3 / hr. Head: 10 m, Motor Rating: Mini. 10 hp (or higher rating as reco. by pump mfg.)	2	Nos.	207,662	415,324

7.1.1	MONORAIL EOT WITH ELECTRIC CHAIN HOIST SITC of Electrically Operated Chain Hoist & Electrically operated Trolley, suitable to operate on Mono Rail Girder having motorised motion in vertical lifting & cross travel, manufactured as per IS:6547-1972-Class-II & IS-3177- Class-II, complete with electrically operated chain hoist & Electrically operated geared trolley, brake, chain-gear, motors, safety device, pendant push button, starter panel, cables from motor to starter panel and all other required accessories like limit switches, panel, power supply system (Fastoon cable type), fasteners, epoxy painting, etc. tested for over load as per IS complete as per specifications and complete in all respect. Capacity : 2 Ton. Min. (For HSCF Pump lifting) Lift : 10.00 m as mini. or as per site req. Bay Length : 33 m min. or as per site req. (w/o MONORAIL GIRDER & MS supporting structure) Note: (1) Minimum as specified capacity or higher as per requirement such that ECH capacity is min.1.25 times of the pump/motor OR single heaviest component	1	Set	278,940	278,940
8.1.1	500 KVA DG SET SERVICE CHARGE - RS. 5,271.00 OIL - 50 LTR. - 34,380.00 OIL FILTER - 03 NOS. - RS. 6,864.00 FUEL FILTER - 02 NOS. RS. 9,349.00	1	job	55864	55864
9.1.1	MISCELLANEOUS WORK Dismantling & removal / shifting of existing mechanical equipments installed in dry well of pump house like 6 nos. pump sets and it's associated valves, expansion bellows, suction, delivery pipes & specials etc. as well as drain pump sets, etc. as required from its place carefully without damaging them and stacking them within the pumping station area as directed by Engg. In. of Charge of RMC complete in all respects and to permit the installation of new pump sets, other electro-mech equipment including instrument items and other associated items of this tender scope / BOQ.	1	Lot	57,600	57,600
9.1.2	Dismantling of all existing Pump set foundation (6 Nos.) in dry well / pump house, support structure of pipe, valves and other equipments as existing at site for dry well as well as on top of wet well slab or at other units of pumping station as applicable including breaking, removing & carting of debris and various material for carrying out necessary electro-mechanical upgradation / refurbishment work and for constructing new foundations/supports complete in all respect and as required for installation and satisfactory operation of all electro-mech equipment and instrument items as per the tender scope / BOQ.	1	Lot	43,200	43,200
9.1.3	Constructing / casting New RCC Foundation block work for New HSCF Pump-Motor Set (6 Nos.) as per manufacturer's recommendation and approved drawings including all material (cement, sand, grit, kapachi, water, steel bars, etc.) and required scaffolding materials, curing, finishing, plastering, epoxy painting complete in all respect.	6	Nos.	15,000	90,000
9.1.4	All miscellaneous Civil Work including modification, providing cut-outs, core cutting, minor repairing/finishing works etc. providing RCC support of valves, pipes (including header line) & fittings, grouting work, Required civil works including modification, finishing work for existing pump house flooring, etc. in pump house and any other unforeseen / emergency work during dismantling of existing pump & during installation in existing running wetwell / pump house etc. and all other as required to complete the work in all respects and as required, colour work of all machinery for installation and satisfactory operation of all electro-mech equipment and instrument items as per the tender scope / BOQ.	1	Lot	75,000	75,000
A	TOTAL OF MECHANICAL WORKS W/O GST				7,519,538.00

RAJKOT MUNICIPAL CORPORATION					
WATER MANAGEMENT UNIT O&M SHELL - EAST ZONE					
ESTIMATE - B (Electrical)					
NAME OF WORK:- AUGMENTATION WORK WITH SITC OF ELECTRICAL AND MECHANICAL WORKS FOR WDS AT VINODNAGAR PUMPING STATION OF RMC					
Sr. No.	Item Description	Qty.	Unit	Unit Rate, Rs.	Amount, Rs.
1.1	SITC of H.V. CABLES SITC of 11 kV (E), 3C x 240 sq.mm., Aluminium, extruded innersheath, Armoured, XLPE , H.V Cable as per IS 7098 (part 2) and Tech. Specification. (DP Structure to HT Panel)	80	Mtr.	1,045.00	83,600
1.2	SITC of the Indoor Heat shrinkable Termination: SITC of Indoor H.T. cable end terminations Kit for 11 kV (E), 3C x 240 sq.mm. XLPE armoured cable with all accessories as required.	2	Nos.	4,798.00	9,596
1.3	SITC of the Outdoor Heat shrinkable Termination: SITC of Outdoor H.T. cable end terminations Kit for 11 kV (E), 3C x 240 sq.mm. XLPE armoured cable.	2	No.	6,763.00	13,526
1.4	LOW VOLTAGE (LT) PANEL BOARD (PMCC) : SITC of PMCC Panel (50KA), compartmentalized, Floor mounted, operating height maximum 1800/1900 mm, Extensible on both ends, suitable for Manual & Auto operation -Local & through PLC/SCADA operation as per site conditions complete in all respects as per Tender SLD / Specification / IS and including following as minimum: (1) INCOMER 1&2: FP, 1000A, 50 KA Microprocessor EDO ACB LSIG with inbuilt RS 485 MODBUS communication with Digital Voltmeter with VSS, Digital PF Meter, Digital Ammeter with ASS, Resin Cast CT- Cl : 0.5,10VA, MFM with RS-485 Cl. 0.5, Breaker Control Switch (TNC), A/M, L/R switch, Indicating lamps, Push buttons etc., with electrical & mechanical interlocking between Incomers and buscoupler. (1.1) Surge protection device, 3P + N, Type 2 for lightning/surge protection. Load sensing CT in Incomer for APFC panel. Constant voltage/control voltage transformer 1500VA, 415V/230V AC, with tapping +/-5% in steps of 2.5%, 16A DP MCB & 18A Power contactor. (1.2) Load sensing AHF CT with required summation CT for AHF Panel on each Bus. (2) DG Incomer: One no FP, 1000A, 50 KA Microprocessor EDO ACB LSIG with inbuilt RS 485 MODBUS communication with Digital Voltmeter with VSS, Digital Ammeter with ASS, Resin Cast CT- Cl : 0.5,10VA, MFM Cl. 0.5 with RS- 485, Breaker Control Switch (TNC), A/M, L/R switch, Indicating lamps, Push buttons etc., with electrical & mechanical interlocking between Incomers and buscoupler. (3) BUS-COUPLER: One no. FP 1000A ACB (same as per Incomer) (3.1) 1250A TPN, EC grade AL Main busbars. (Busbars size as per 50KA fault level and Temperature rise with Minimum current density 0.8A/Sq.mm) (4) TRANSFORMER FIXED COMPENSATION FEEDER (35 KVAR): 2 Sets: Each comprising of 100A FP Thermal Magnetic MCCB, Ind. Lamp, with Capacitor duty contactor, ON Delay timer, individual MCCB/MCB as per Tender SLD.	1	Set	2,947,150.00	2,947,150
	(5) SOFT STARTER FOR 132 KW MOTOR : 6 NOS: Each feeder comprising of Soft Starter with Internal bypass contactor for 132 kW Motor or higher as per pump manufacturer reco. with soft starter rating minimum (272A @ 50deg C) with suitable derating with detachable type door mounted display key pad and with 400A TPN microprocessor MCCB LSIG, 400A, AC3 duty Line contactor, Semi conductor fuse, MFM with RS-485 Cl. 0.5, Resin Cast CT Cl: 0.5, Temperature Scanner with RS-485, SPP, A/M, L/R switch, Indicating lamps, Push buttons etc. complete in all respects (6) 150 KVAR APFC POWER FEEDER: 2 NOS: Each feeder comprising of 400A TPN MP MCCB, 50kA (LSIG) with Digital Ammeter, ASS, CT, Indicating lamp, etc.complete in all respects. (7) 63A TPN TM MCCB FEEDER : 2 Nos. (2 nos. Spare) Each feeder comprising of 63A TPN Thermal Magnetic (TM) MCCB, with indicating lamp etc. (8) 125A POWER FEEDER 2 NOS: (For Aux DB Panel,1 no spare): Each feeder comprising of 125A TPN TM MCCB 50kA (LSIG) with on, off, trip Indicating lamps, etc.complete in all respects (9) Multiplication relay as required for dry run protection of pumps. NOTE: 1). All MCCB shall be 50KA, Ics = 100% Icu, inbuilt protection with adj O/L and Adj.S/c (LSIG for MP MCCB),Extended rotary handle, Terminal spreader, Auxiliary Change over contact and trip contact as required.2) All MFM, ACB, Soft Starter,MPR,Temp.Scanner etc shall be with inbuilt RS 485.			rate inclusive in above price	
1.5	SITC of 150 KVAR APFC Panel , compartmentalized, floor mounted, operating height maximum 1800/1900 mm, extensible type on both sides with Horizontal bus bar arrangement as per site requirement & complete in all respects as per SLD / Specification / IS and including following as minimum: (1) INCOMER: 1.1 400A, TPN, 50 KA TM MCCB LSIG with Digital Voltmeter with VSS, Digital Ammeter with ASS, Resin Cast CT- Cl : 1.0,10VA, A/M, L/R switch, Indicating lamps, Push buttons etc. 1.2 Microprocessor based APFC Relay,144sq.mm, 16 STEP with RS 485 with minimum operating current 10mA. 2. OUTGOING CAPACITOR FEEDER: Capacitor feeder of following rating comprising of TPN MCCB/MCB with ON & TRIP Indication, Capacitor duty contactor, Heavy duty MPP / gas filled capacitor unit, A/M Switch, ON Delay timer, ON / OFF Push button, ON, TRIP, Auto & Manual Indication lamp etc. as per Tender SLD& Specification 2.1 25 KVAR FILTER FEEDER: 5 NOS 2.2 10 KVAR FILTER FEEDER: 1 NO 2.3 5 KVAR FILTER FEEDER: 3 NOS 2.4.Two nos. Vacant feeder suitable for 1-25KVAR and 1-10KVAR to be provided. NOTE: 1. cooling/exhaust fan : Heavy duty 8" Metallic Housing and Metal Impeller / Blade / Vanes of Minimum 2nos. or higher as required at the top of the panel with canopy/hood. 2. For Capacitors of rating ≤ 5 KVAR only, All types viz. APP/MPP/Gas Filled are acceptable.	2	Set	428,815.00	857,630
1.6	AUXILLARY PANEL BOARD SITC of Auxillary Distribution Board compartmentalized, Floor mounted, operating height maximum	1	Set	347,619.00	347,619
1.7	SITC of Lighting Distribution Board (LDB) as under: SITC of 3 Phase 4 Wire 4P, double door Previred LDB each for Indoor Lighting & Outdoor Lighting Suitable to house : Incoming: 32A FP, ELMCB (30mA) Outgoing: 20A SP MCB (9 nos.) & 16A SP MCB (9 nos.)	1	Nos.	6,901.00	6,901
1.8	SITC of Power Distribution Board (PDB) as under: 3 Phase 4 Wire TPN, 8 way Pre-wired-MOG / MOV PDB for Auxiliary accessories Load power supply (For 6 nos. MOV At Pump Delivery, 1 no MOV at Header, 1 no for Monorail at Pump House, Aux. load & Rest spare) Incoming: 63A 4P, MCB 'C' Curve Outgoing: 8 nos. 32A 4P MCB 'C' Curve	2	Nos.	7,871.00	15,742

1.9	SITC of LCS pushbutton station ON & OFF (E-stop) set complete with Enclosure, necessary mounting/ fixing arrangement on wall/ pipe support etc. to be installed near motors for remote operation, etc. as per IS and specifications. (including structural steel) (For 6 nos. for soft starter operated motor)	6	Nos.	2,116.07	12,696
2.1	LOW VOLTAGE (LT) CABLES Supply, laying, testing and commissioning of 1.1 kV, A2XFY/2XWY (Extruded innersheath) XLPE insulated (IS 7098) AL / Cu stranded conductor, Extruded innersheath cables as per specification & IS. The cable when laid outside the building shall be laid underground in trench with brick & sand protection/in DWC pipes as per specified method and shall be laid in prepared trench/ on cable tray when laid inside the building. SITC of 3.5C x 300 sq. mm. A2XFY(Extruded innersheath) Cable (3 Runs/ incomer -existing TFR to PMCC Panel, for 3 runs from existing AMF panel to proposed PMCC panel)	280	Mtr.	1,387.00	388,360
2.2	3.5C x 240 sq. mm. A2XFY (Extruded innersheath) Cable (1 run from PMCC panel to 2 nos APFC panel)	25	Mtr.	1,150.00	28,750
2.3	3.5C x 120 sq. mm. A2XFY (Extruded innersheath) Cable (1 run for PMCC panel to Auxiliary panel board)	25	Mtr.	529.00	13,225
2.4	3C x 150 sq. mm. 2XFY (Extruded innersheath) Cu. Cable (1 run from PMCC panel to 6 nos. S/S based HSCF pump Motor)	230	Mtr.	3,144.00	723,120
2.5	4C x 10 sq. mm. A2XFY (Extruded innersheath) Cable (For 2 nos. PDB)	50	Mtr.	137.00	6,850
2.6	4C x 6 sq. mm. A2XFY(Extruded innersheath) Cable (For 2 nos. WR-DB with TPN MCB at P.H., Outdoor LDB, Indoor LDB)	110	Mtr.	123.00	13,530
2.7	4C x 2.5 sq. mm. 2XWY/2XFY (Extruded innersheath) Cable (For 6 nos. MOV on Pump Delivery, for 1 no MOV on header, For 1 no. Monorail at Pump House, For 2 nos. Dewatering Pump, 1 no. ICP/PLC Panel, for DG sensing & battery charging & Outdoor lighting)	700	Mtr.	267.00	186,900
2.8	3C x 4 sq. mm. Multi strand 2XWY(Extruded innersheath) Cable (For 2nos.oltc motor)	80	Mtr.	283.00	22,640
2.9	2C x 2.5 sq. mm. Multi strand 2XWY(Extruded innersheath) Cable (For HT Panel, for 2 nos. APFC CT & X'mer marshaling box Single Phase Supply for, 6 nos. Space Heater, 2 nos OLTC drive mechanism)	450	Mtr.	175.00	78,750
2.10	5C x 1.5 sq.mm. 2XWY(Extruded innersheath) Cable (For 6 nos. Pump LCS)	230	Mtr.	253.60	58,328
2.11	10C x 1.5 sq.mm. 2XWY (Extruded innersheath) Cable (2 Runs Tr. to HT Panel control cable, 6 nos of Actuatater to Panel)	300	Mtr.	484.80	145,440
3.1	CABLE END TERMINATION AND CONNECTION: SITC of Double compression Ni-Plated brass cable glands and crimping type Bimetallic lugs / sockets with necessary tools and equipments as specified in specifications and IS. The glands and lugs / sockets shall be suitable for cable size and type mentioned below & as per specifications. 1) Earthing the glands and armouring with earthing clamp and jumper and also connecting to common earth bar. 2) The job also includes, if necessary, supply & fixing of extension busbar of same material on MCCB or panel board terminal / connector to connect more than one no. of parallel cables or to connect higher size cable to lower size unit. The job also includes earthing the glands and armour of the cable with common earth bar or flexible copper mesh.(Cable termination qty. shall be as per site requirement) 3)5C x 300 sq. mm. A2XFY Cable (3 Runs/ incomer -existing TFR to PMCC Panel, for 3 runs from existing AMF panel to proposed PMCC panel)	20	Nos.	633.00	12,660
3.2	3.5C x 240 sq. mm. A2XFY Cable (1 run from PMCC panel to 2 nos APFC panel)	4	Nos.	545.00	2,180
3.3	3.5C x 120 sq. mm. A2XFY Cable (1 run for PMCC panel to Auxiliary panel board)	2	Nos.	299.00	598
3.4	3C x 150 sq. mm. 2XFY Cable(1 run from PMCC panel to 6 nos. S/S based HSCF pump Motor)	12	Nos.	1,071.00	12,852
3.5	4C x 10 sq. mm. A2XFY Cable (For 2 nos. PDB)	4	Nos.	99.00	396
3.6	4C x 6 sq. mm. A2XFY Cable (For 2 nos. WR-DB with TPN MCB at P.H.,Outdoor LDB, Indoor LDB)	8	Nos.	62.00	496
3.7	4C x 2.5 sq. mm. 2XWY/2XFY Cable (For 6 nos. MOV on Pump Delivery, for 1 no MOV on header, For 1 no. Monorail at Pump House, For 2 nos. Dewatering Pump, 1 no. ICP/PLC Panel, for DG sensing & battery charging)	30	Nos.	65.00	1,950
3.8	3C x 4 sq. mm. 2XFY / 2XWY Cable (For 2 nos. OLTC Motor)	4	Nos.	57.00	228
3.9	2C x 2.5 sq. mm. Multi strand 2XWY Cable (For HT Panel, for 2 nos. APFC CT & X'mer marshaling box Single Phase Supply, for 6 nos. Space Heater, 2 nos OLTC drive mechanism)	26	Nos.	49.00	1,274
3.10	5C x 1.5 sq.mm. 2XWY Cable (For 6 nos. Pump LCS)	12	Nos.	140.00	1,680
3.11	10C x 1.5 sq.mm. 2XWY Cable (2 Runs Tr. to HT Panel control cable)	8	Nos.	220.00	1,760
4.1	CABLE TRAY SITC of G.I. (hot dip galvanised)Ladder type medium duty (2mm thick) Cable Tray with necessary bends, tees, reducers, covers and clamps for fixing. All material shall be Hot dip galvanised as per Specification. And including all accessories. 700 x 100 mm - Ladder type	30	Mtr.	738.00	22,140
4.2	300 x 100 mm - Ladder type	50	Mtr.	551.00	27,550
4.3	150 x 50 mm - Ladder type	150	Mtr.	276.00	41,400
5.1	Making Trench/ excavation in soft soil of suitable width and of depth (minimum 750mm depth (LT) & 1000mm for HT) for laying cable/ DWC pipe and back filling the same and making the surface as normal ground as per IS & Tender Specification/Drg. (For laying of HT/LT cable)	100	Mtr.	46.00	4,600
5.2	Cable Protection/ Covering in Trench: Cable Covering with second class bricks or cement tiles laid cover the cable (top) & also on both side with sand bedding/cushioning of 75mm.& covering of 150mm Layer of sand above cable (16 bricks per meter.) as per IS & Tender Drg/ Specification. (For HT/LT cable protection) complete in all respects as instructed by EIC.	50	Mtr.	133.00	6,650
6.1	CHEMICAL EARTHING SYSTEM SITC of Maintenance free chemical earthing (copper) with earthpit of minimum bore size dia. 225mm Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS-3043:1987 /Tech spec. made of corrosion free Pipes having Outer pipe dia of 48 mm having 250 Micron copper plating, Inner corrosion free Hot dip galvanised (80 to 100 micron) pipe dia of 26 mm with copper flat strip type connection terminal 14mm dia with constant ohmic value surrounded by highly conductive corrosion resistant chemical compound with high charge dissipation suitable for electrical installation & of 3Mtr. length of Pipe with two nos. 25Kg. bag of Back filling compound.. (2 nos. existing transformer) NOTE: Earthing Resistance value & date shall be painted on the chamber cover.	2	Set	10,489.00	20,978

6.2	SITC of Maintenance free chemical earthing with earthen pit of minimum bore size dia. 225mm Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS- 3043:1987 /Tech spec. made of corrosion free Hot dip Galvanised (min 150 Microns) Pipes having Outer pipe dia of 76 mm , Inner corrosion free Hot dip galvanised (80 to 100 micron) pipe dia of 26 mm with copper flat strip type connection terminal 14mm dia with constant ohmic value surrounded by highly conductive corrosion resistant chemical compound with high charge dissipation suitable for electrical installation & 3Mtr. length of Pipe with two nos. 25Kg. bag of Back filling compound. (2 nos for PMCC, 2 nos Transformer, 2 nos DG SET, 1 nos DP structure, 2 nos VCB Equipments) NOTE: Earthing Resistance value & date shall be painted on the chamber cover.	9	Set	10,489.00	94,401
6.3(a)	SITC of 50mm(w) x 6mm(T) etc. sizes as required, HOT dip galvanized GI Strip including supply & fixing using GI spacers, saddles when laid inside the building and inclusive of excavation & refilling of earth when laid outside the building & interconnection with earth pit & all electro-mechanical equipments. (50X6 G.I Strip wt.2.3 kg/m, 2.3x250Mt.=575kg.)	575	Kg.	77.00	44,275
6.3(b)	Supply, laying and erection of 25mm(w) x 3mm(T) etc. sizes as required, HOT dip galvanized GI Strip including supply & fixing using GI spacers, saddles when laid inside the building and inclusive of excavation & refilling of earth when laid outside the building & interconnection with earth pit & all electro- mechanical equipments. (25X3 G.I Strip, 0.6 Kg/m, 0.6x100Mt.=60Kg.)	60	Kg.	77.00	4,620
6.3(c)	Supply, laying and erection of 40mm(w) x 6mm(T) etc. sizes Copper Strip including supply & fixing of bolts, saddles when laid inside the building and inclusive of excavation & refilling of earth when laid outside the building & interconnection with earth pit & Tr. neutral. (40X6 Cu. Strip, 1.88 Kg/m, 1.88 x 80mtr.=150Kg.) Copper Bolt,Nuts ,Washers shall be used for Connecting Earth electrode to individual eqp. Bitumen shall be used at the place of joint/welding.	150	Kg.	787.00	118,050
6.3(d)	SITC of HOT Dip Galvanized iron strip wire 8 SWG (For LDB, LCS, etc.) (8 SWG G.I Strip, 0.103 Kg/m, 0.103 x 250Mt.=25.75 Kg.)	26	Kg.	77.00	2,002
7.1	INTERNAL WIRING SITC of Mains & outlet points wiring with 1.1 kv grade FRLS PVC insulated ISI marked flexible stranded copper conductor wires with medium class min. 25mm. dia. Rigid PVC pipe and accessories to be erected concealed in / to be run on surface / wall / ceiling with following sizes as mentioned below. The unit rate wirings shall be with connector, PVC junction box, wires, holder, ceiling rose, angle holder, switch, sockets, switch board, brass chromium / cadmium plated machine screws, phase and neutral wires, green Earth continuity wires etc. as required to complete wiring from LDB panel to the final outlet termination points. The wiring shall be as per IS:732, IS:4648 and as per tender specification / IS. (a) SITC of Mains wiring with 3 wire 1.5 sq.mm.	200	Mtr.	78.00	15,600
7.2	As per Sr. No.-7.1 (b) SITC of Mains wiring with 3 wire 2.5 sq.mm as per tender specification & IS.	150	Mtr.	96.00	14,400
7.3	As per Sr. No.-7.1 (c) SITC of Mains wiring with 4 wire 1.5 sq.mm as per tender specification & IS.	50	Mtr.	86.00	4,300
7.4	As per Sr. No.-7.1 (d) SITC of Mains wiring with 4 wire 2.5 sq.mm as per tender specification & IS.	50	Mtr.	119.00	5,950
7.5	SITC of Point wiring for Light / fan / Bell / Primary Point with 2nos. 1.5 sq. mm & earth wire of 1.5 sq. mm (green) both are of ISI marked 1.1 kv grade FRLS PVC insulated multistrand copper wires. pipe to be erected concealed in flushed on wall / ceiling, complete with 6A Tissino Type ISI marked flush type switch / bell push & accessories erected on metal / PVC Box covered with 3 mm thick PC (Polycarbonate) / Acrylic sheet with necessary lamp holder / ceiling Rose / H. D. connector as directed with medium class Rigid PVC pipe & accessories.	42	Nos.	326.00	13,692
7.6	SITC of 6A independent Plug with 2nos. 1.5 sq.mm Cu. Mains size wiring & earthwire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires with medium class Rigid PVC pipe and accessories to be erected on wall / ceiling, complete with ISI marked 3 / 5 Pin socket and tissino type switch erected with earth continuity connection erected on Metal / PVC box covered with 3 mm thick PC(Polycarbonet) / Acrylic sheet. (3 nos. for LT Room cum Pump House)	3	Nos.	288.00	864
7.7	SITC of One 300/380 mm dia. Ex fan 16A independent Plug point near Ex. Fan with 2nos. 4 sq.mm Cu. Mains size wiring & earthwire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires with medium class Rigid PVC pipe and accessories to be erected on wall / ceiling, complete with ISI marked 3Pin socket and tissino type switch erected with earth continuity connection erected on Metal / PVC box covered with 3 mm thick PC(Polycarbonet) / Acrylic sheet. Plug point shall be near Ex.Fan.(2 nos. LT Room cum PH)	2	Nos.	565.00	1,130
7.8	SITC of 6/16A independent Plug with 2nos. 4 sq.mm Cu. Mains size wiring & earthwire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires with medium class Rigid PVC pipe and accessories to be erected on wall / ceiling, complete with ISI marked 3 / 5 Pin socket and tissino type switch erected with earth continuity connection erected on Metal / PVC box covered with 3 mm thick PC(Polycarbonet) / Acrylic sheet. (3 nos. for LT Room cum Pump House)	3	Nos.	565.00	1,695
7.9	SITC of Single Phase 20A 3 Pin Metal clad Industrial Type Socket with plug top and 20A SPMCB , suitable for flush mounting, in 16 SWG MS box of suitable size and covered with 3 mm thick electrical grade hylam sheet or equivalent ISI marked Electrical grade Bakelite sheet and earthing with 2.5 sq.mm insulated copper wire run inside the conduit including interconnections etc. complete as required. (2 nos. at LT Room cum Pump House)	2	Nos.	840.00	1,680
7.10	SITC of Sheets steel powder coated weather proof enclosure with One no. 32A, 415V 4P MCB for Motor & Inductive load (C Curve) having 10 KA breaking capacity & confirms to IS: 8828. (For 2 nos. WR DB at P.H., 1 no. for Monorail at LT Room P.H.)	2	Nos.	765.00	1,530

8.1	LED LIGHT FIXTURES & LIGHTING: SITC of Indoor wall mounting 20Watt or up to 25% higher wattage LED 4 feet Tube Light indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 20 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaries efficacy > 85 lumens/watt , LED driver efficiency > 85 % (Each fitting required LM-79 & LM-80 Certificates) Tube Light with integral / non-integral driver, Surge-4KV,IP-20, 4 feet, Cat-III (For 15 nos. at LT room cum P.H.)	18	Nos.	370.00	6,660
8.2	SITC of 380mm sweep 1400 R.P.M exhaust fan, capacitor type, having double ball bearing, M.S.blades, mounting frame, forearms, suitable to operate on 230V,50 HZ AC supply conforming to IS: 2312.Fan shall be painted with epoxy grey colour controlled by one 6 A flush type switch on board and 6A plug point near Ex. fan. (2 nos. LT Room cum PH)	2	Nos.	3,052.00	6,104
8.3	SITC of 40W LED Surface / Wall mounted LED Flood Light fittings with High power White LEDs wattage of 1Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses with company mark/name engraved or embossed 120 to 300 V,Power Factor more than 0.95, THD < 20 %, CCT 5000 K to 5700K, Uniformity ratio >0.45, Luminaries efficacy > 85 lumens/watt . LED driver efficiency > 85 % . (Each fittings required LM-79 & LM-80 certificates) (IP-65), Surge -4KV Cat-III For Indoor use: (11 nos. at Pump House & 04 nos. at outdoor)	15	Nos.	7,473.21	112,098
8.4	EXTERNAL LIGHTING (Flood LIGHT): SITC of 70W LED Wall mounted LED Flood Light fittings with High power White LEDs wattage of 1Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses with company mark/name engraved or embossed 120 to 300 V,Power Factor more than 0.95, THD < 20 %, CCT 5000 K to 5700K, Uniformity ratio >0.45, Luminaries efficacy > 85 lumens/watt . LED driver efficiency > 85 % . (Each fittings required LM-79 & LM-80 certificates) (IP-65), Surge -4KV Cat-III For Outdoor use: (8 nos. for area lighting)	15	Nos.	7,735.00	116,025
8.5	Providing and erecting Approved make Ceiling fan with double ball bearing ISI mark with condenser A.C. 230V.50 c/s.1200 mm. sweep complete, canopy erected on existing hook or clamp with earthing.	10	Nos.	1,581.00	15,810
9.1	SAFETY ACCESSORIES SITC of following safety accessories complete with necessary fixing brackets, other accessories and tools etc. as required to complete the job. Supply & Erecting carbon dioxide (CO2) fire extinguisher of 4.5kg capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. (For 1 no. DP Structure, 2 nos. X'mer-1 & 2, 1 no. HT Room, 1 no. for LT Room cum P.H., 1no for DG set)	5	Nos.	6,526.00	32,630
9.2	Supplying of standard first AID box with antiseptic cream, medicine for use on wounds due burn, crepe bandage, guage bandage, medicated ready to use bandage (Band-aid) adhesive tape for medicinal user, scissors, antiseptic solution (Savlon or similar) etc. (All above contents shall be of standard makes) (1 no. for HT room, 1 no. for LT Room cum P.H.)	2	Nos.	297.00	594
9.3	Supply & fixing of printed instruction (First Aid) Chart both in English and Gujarati and duly framed with front glasses, for treatment of person suffering from electric shock. (1 no. for HT Room, 1 no. for LT Room cum P.H.)	2	Nos.	129.00	258
9.4	Supply and laying of Synthetic Insulating Mat of Class - A of min. thickness 2mm as per IS:15652 and with good electrical insulation property for 11KV/22KV as per site requirement. (For HT Panel)	4	Sq.mtr	3,051.00	12,204
9.5	Supply and laying of Synthetic Insulating Mat of Class - A of min. thickness 2mm as per IS:15652 and with good electrical insulation property for 1.1KV/3.3KV as per site requirement. (For LT Panel)	20	Sq.mtr	1,017.00	20,340
9.6	Providing pair of rubber hand gloves ISI make suitable for working on 22 KV supply	2	Nos.	212.00	424
10.0	Dismantling of Existing working LT Panels, LT cables including removing termination from existing Panels, lighting fixtures, existing lighting wiring, etc including loading, shifting & unloading at location in plant compound as directed by Enng. in charge of RMC.	1	Lot	50,000.00	50,000
11.1	Carryout routine maintenance, servicing and testing of 1250 Amps. Existing H.T.VCB panel in accordance with I.S. 10119-1962 part I-to-IV with below defined scope: (1) Cleaning of dust, spider web, foreign particles. Etc (2) Removal of old grease with new grease for various parts.(3) Cleaning of various parts with CRC.(4) Check the tightness of all hardware (5)Checking of Spring Charging, Closing & Tripping mechanism (6) Measurement of IRV (7) Measuring of closing/tripping time by time testing kit (8) Measuring contact resistance by CRM kit.	3	Nos.	4,662.00	13,986
11.2	Routine maintenance of Existing Transformer covering , opening the core and winding assembly and give heating and varnish, transformer body cleaning, Removing the laminated core plate,Removing washer ring for the coils Insulation Resistance oil breakdown strength, required new M.S. bolts,Replacing old and unserviceable gasket of Top cover plate,Replacing old & unserviceable gasket bushing of H.T,Replacing old & unserviceable gasket bushing of L.T. reconditioning /replacement of silica gel, cleaning of transformer & topping up to of oil if required,colour work of transformer .(Oil will be provided departmentally or at extra cost.) etc including loading & unloading of Existing transformer.	2	Nos.	59,940.00	119,880
11.3	Existing RTCC panel of transformer Routine Service carried out if any fault in RTCC panel clear and testing the panel. (If any parts required to change for this work payment given separately by company prise list)	2	Nos.	2,997.00	5,994

11.4	SUPPLY OF STAND ALONE PANEL FOR EXISTING SOFT STARTER FOR 132KW MOTOR:- Supply of Stand alone Soft starter MCC-1 Panel (50kA), stand / wall mounted/ As per site situation or as store stand by & location shall be as per Instruction of Engineer in Charge. operating height maximum 1800/1900 mm,suitable for Auto & Manual operation -Local & through PLC/SCADA operation as per site conditions complete in all respects as per SLD / Specification / IS and including following as minimum: Each Panel comprising of Existing Soft Starter with Internal/ External bypass contactor for 132 kW Motor or higher as per pump manufacturer reco.with suitable derating with detachable type door mounted display key pad and with 400A TPN MP MCCB LSIG, 400A AC3 duty Line contactor, Semi conductor fuse, MFM with RS-485 CI:0.5, Resin Cast CT CI: 0.5, Space heater, Minimum eight channel temprature scanner, SPP, A/M, L/R switch, Indicating lamps, Push buttons etc. (Minimum Cubical Size: 750mm W X 600mm D X 1500mm H) Note:- Soft Starter will be provided by RMC	2	Nos.	115,464.00	230,928
A	TOTAL OF MECHANICAL WORKS WITHOUT GST				7,519,538.00
B	TOTAL OF ELECTRICAL WORKS WITHOUT GST				7,187,869.57
	TOTAL AMOUNT ELE+MECH WORK WITHOUT GST (A+B)				14,707,407.57
	ADD 18% GST EXTRA				2,647,333.36
	TOTAL FINAL SITC AMOUNT ELE+MECH WORK (WITH 18%GST)				17,354,740.93
	SAY (Rs. One Crode Seventy Three Lacs Fifty four Thousand Seven Hundrend Fourty one Only.)				17,354,741.00
Note:- (1) HT VCB Panel,Transformer, RTCC panel, DG set & AMF panel to be retained as per instruction of engineer in charge of RMC. (2) DP structure not considered in above estimate as instructed by EIC of RMC. (3) Copper cables have been considered for panel to motors as instructed by EIC of RMC. (4) LT cable quantity revised as instructed by EIC of RMC. (5) Material supplied by agency for SITC work same old material will buy back to agency.(Excluding 2 nos. Soft Starter)					
P.G.PRAJAPATI		A.B.GOHIL		D.Y.TRIVEDI	
Addl. Asst Eng (Mech.)		Asst Eng(Ele.)		K.P.DETHRIYA	
				A.C.E (W.M.U.)	

::SCHEDULE-D::
BUYBACK

Buyback Price FOR AUGMENTATION WORK OF ELECTRICAL AND MECHANICAL WORKS FOR EX. WDS AT VINODNAGAR PUMPING STATION OF RMC.													
S.N.	Description	Unit	Qty	Unit Buyback Rate in Rs	Total Buyback Amt in Rs								
1	BEACON WEAR make HSCF Pump Set + R&D make Sluice Valve + R&D make NRV / Dual Plate Check Valve + BD Engg. Make Expansion Bellows	Lot	1	656000	656000								
3	Shakti Control make PMCC Panel board inclusive of 4Nos. Of Star-delta starter	Nos.	1	85000	85000								
4	Power Distribution Panel,amp Technomation	Nos.	1	15000	15000								
5	Shakti Control make APFC Panel - 150 kVAR	Nos.	2	35000	70000								
F	Total Buyback Amount in Rs.				826,000								
<table border="0" style="width:100%"> <tr> <td align="center">P.G.PRAJAPATI</td> <td align="center">A.B.GOHEL</td> <td align="center">D.Y.TRIVEDI</td> <td align="center">K.P.DETHARIYA</td> </tr> <tr> <td align="center">Addl. Asst Eng (Mech.)</td> <td align="center">Asst Eng(Ele.)</td> <td align="center">DEE (Mech.)</td> <td align="center">AddCity Engineer</td> </tr> </table>						P.G.PRAJAPATI	A.B.GOHEL	D.Y.TRIVEDI	K.P.DETHARIYA	Addl. Asst Eng (Mech.)	Asst Eng(Ele.)	DEE (Mech.)	AddCity Engineer
P.G.PRAJAPATI	A.B.GOHEL	D.Y.TRIVEDI	K.P.DETHARIYA										
Addl. Asst Eng (Mech.)	Asst Eng(Ele.)	DEE (Mech.)	AddCity Engineer										

::SCHEDULE-E::
COST OF O & M FOR 2 YEARS

RAJKOT MUNICIPAL CORPORATION						
WATER MANEGMENT UNIT O&M SELL - EAST ZONE						
SUMMARY OF AUGMENTATION WORK WITH SITC OF ELECTRICAL, MECHANICAL WORKS WITH 2 YEARS O&M FOR EX. WDS AT VINODNAGAR PUMPING STATION OF RMC						
ABSTRACT (O&M)						
Sr No.	QTY.	Description	Rate	Unit	Total Amount	Remarks
1	3	Pump Operator skilled & work experience of HT, LT work (1 person each shift x 3 shift)	497.00	Person	1491.00	Minimum wages as per the Order No:RMC/Esta/113 Dt: 15/04/2024
2	3	Helper cum swipper Unskilled (1 person each shift x 3 shift)	487.00	Person	1461.00	
Total Amount per Day =					2952.00	
AS PER PF ACT 13% OF WAGES (A*13%)					383.76	
AS PER ESIC ACT 3.25% OF WAGES (A*3.25%)					95.94	
BONUS (A*8.33%)					245.90	
TOTAL O & M COST FOR ONE DAY OF ENTIRE PACKAGE (A+B+C+D)					3677.60	
TOTAL COST FOR 365 DAYS (E*365DAYS)					1342324.58	
Contractor profit...@ 15% AND PRENTIVE MAINTENANCE 5% (A*365 DAYS* 20%)					215496.00	
TOTAL AMOUNT FOR 1 YEAR					1557820.58	
10% RISE IN MIN. WAGES FOR 2ND YEAR (G*10%)					155782.06	
TOTAL AMONUT FOR SECOND YEAR					1713602.64	
TOTAL TENDER AMOUNT FOR TWO YEARS (G+I)					3271423.23	
SAY					3271423.00	
(RUPEES THIRTY TWO LAC SEVENTY ONE THOUSAND FOR HUNDRED TWENTY THREE ONLY)						
P.G.PRAJAPATI		A.B.GOHIL		D.Y.TRIVEDI		K.P.DETHARIYA
Addl. Asst Eng (Mech.)		Asst Eng(Ele.)		DEE (Mech.)		Add.City Engineer