

Schedule-B

Name Of Work : **ARC (Annual Rate Contract) for routine maintenance & servicing of HT/LT equipment's, control panels for Water Supply Scheme at Notified Area GIDC, Sachin Estate 2026-27(Re-Invite-I).**

| Sr. No. | DESCRIPTION OF ITEM | QTY. | UNIT | RATE/ UNIT in RS. | NET RATE/ UNIT in Rs. |
|------------------------------|---|-------|------|----------------------|--------------------------|
| PART - A Labour Works | | | | | |
| 1 | Labour charges for Round the clock Routine Preventive Maintenance of below Panels. It includes the Attending the fault and Complete Control Panels Servicing / Repairing /Cleaning of all panels with checking of all the terminals of Star Delta Connectors/Over load Relay/Single Phase Preventer /Timers/ Auto Transformer. Checking of all the Lugs & Nut-bolts condition and if found unhealthy then cleaning of all the Rust and Deposited Carbon on faulty Terminal. It means the job include the Complete Repair & Maintenance of all the panels per month or as an when required with all contact kits Cleaning, Tightening of Connections, Power & Control wiring repairing / Replacement of panel accessories (if required) | | | | |
| a | up to 5HP | 60.00 | Job | 306.84 | 18410.40 |
| b | 7.5HP | 12.00 | Job | 460.25 | 5523.00 |
| c | 10HP | 24.00 | Job | 613.68 | 14728.32 |
| d | 15HP | 24.00 | Job | 920.51 | 22092.24 |
| e | 20HP | 24.00 | Job | 1227.34 | 29456.16 |
| f | 30HP | 72.00 | Job | 1841.03 | 132554.16 |
| g | 60HP | 84.00 | Job | 3682.05 | 309292.20 |
| h | 120HP | 12.00 | Job | 7364.1 | 88369.20 |
| 2 | Labour charges for Round the clock Routine Preventive Maintenance of below variable frequency drive. It includes the Attending the fault and Complete variable frequency drive Repairing/Servicing /Cleaning of all Drive with checking of all the terminals of VFD/Over load Relay/Single Phase Preventer /Timers/ Auto Transformer. Checking of all the Lugs & Nut-bolts condition and if found unhealthy then cleaning of all the Rust and Deposited Carbon on faulty Terminal. It means the job include the Complete Repair & Maintenance of all the variable frequency drive per month or as an when required with all contact kits Cleaning, Tightening of Connections, Power & Control wiring repairing / Replacement of VFD accessories (if required) | | | | |
| a | Drive, Make- ABB 75 HP | 24.00 | Job | 1309.71 | 31433.04 |
| b | Drive, Make- ABB 30 HP | 24.00 | Job | 1309.71 | 31433.04 |
| c | Drive, Make- ABB 10/15 HP | 12.00 | Job | 1309.71 | 15716.52 |
| d | Drive, Make- Yaskawa F7 60 HP | 60.00 | Job | 1746.27 | 104776.20 |
| e | Drive, Make- Yaskawa F7 120 HP | 12.00 | Job | 1746.27 | 20955.24 |
| 3 | Labour Charges for Servicing of 11KV 4 Pole / 2 poles DP Structure with GOD switch / Do fuse unit / CTPT jumper with required Maintenance like Servicing of Repairing / Oiling /Gresseing of Male Female Contact of A.B. Switch inclusive of Descaling /Pitting of the fix and moving Contacts. Servicing & Maintaining ACSR Conductor along with its end connection for healthy condition. Cleaning & checking of Lightning Arrestor Power & Earth terminals using conductivity insulation resistance meter. Insulation Resistance Testing of all insulators with 1000/2000 Meggar. | 4.00 | Job | 20455.86 | 81823.44 |
| 4 | Routine Maintenance of 500 to 1000KVA Transformers. It includes the Checking/ Servicing/ Maintenance of H.V. /L.V. Cable End Termination and if required then replacement of H.V. / L.V. Side Lugs with Proper Method with Required Tools like Crimping Machine. The Job also includes the checking of Oil Level of Transformer/ Silica Gel Brether Condition/ Day-farm Condition and attending the outside oil leakage faults if found with replacement of Outer Side Gasket if necessary. | 4.00 | Job | 8635.95 | 34543.80 |
| 5 | Labour Charges for Routine Maintenance / servicing of 1600Amp / 800Amp ACB LT Panel. It includes the Removal of old Grease and re-greasing the same with recommended grease. Check condition of arcing contact and gap between fixed and moving arcing contracts shall be checked. Checking condition and alignment of jaw Contact. Checking proper closing of all poles together. Checking the reset mechanism, tripping of breaker through push button. Checking tripping of VCB through protection release. Checking presence and proper tightening of hardware. Checking condition of ACB wiring and replace if required. | 12.00 | Job | 21459.03 | 257508.36 |

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| 6 | Labour Charges for Routine Maintenance / servicing of various MCCB. The Process includes the Complete Overhauling & Maintenance of MCCB with cleaning of all contacts/ tightening of all hardware. | 52.00 | Job | 2398.88 | 124741.76 |
| 7 | Labour Charges for Routine Maintenance / servicing of APFC Panel. The Job includes the Checking of Operation of APFC Relay. End Termination of all Capacitors in the Panels and condition of capacitors with required equipment's. And then after the re-installation of all capacitors at appropriate compartment of APFC Panel & charge the panel. | 40.00 | Job | 20717.55 | 828702.00 |
| 8 | SITC of Advance Maintenance Free Earthing System: 48 MM Diameter, made from low carbon steel pipe, wall thickness 3.2 MM, ISI Marked, Copper Bonded, with 2 Nos. of Stainless Steel Nut & Bolts, Suitable for Lug Size 40 MM x 6 MM x 100 MM, and cross section area 481 mm ² , to be used with Premium Grade Ground Improving Earthing Compound in appropriate quantity. | 6.00 | Job | 10860.36 | 65162.16 |
| 9 | Labour Charges for Earthing Resistance measurement with proper method using Earth Resistance Meter. | 48.00 | Job | 1919.1 | 92116.80 |
| 10 | Labour Charges for Transformer Painting with Compressor Spray Painting. The process includes the proper di-scaling of rust from each & every part of Transformer & then after paints the Transformer with Heat Resistance Paint as per Standard Norms. | 1.00 | Job | 10816.75 | 10816.75 |
| 11 | Labour Charges for 4pole / 2 pole DP structure painting. The process includes the proper di-scaling of rust from each & every part of 4 Pole/ 2 Pole Structure and then after paint 1 Coat of Red Oxide and 2 Coat of Silver Paint with required manpower & materials. | 1.00 | Job | 10751.32 | 10751.32 |
| | PART-B SITC of Material | | | | |
| 13 | providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark | 25.00 | Ea | 112.11 | 2802.75 |
| 14 | Supplying & erecting directly operated single phasing preventer complete erected and connected to supply up to 45 Amp. Range. | 20.00 | Ea | 1078.68 | 21573.60 |
| 15 | Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections. | 8.00 | Ea | 317.14 | 2537.12 |
| 16 | Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections. | 30.00 | Ea | 43.43 | 1302.90 |
| 17 | SITC of Push button with elements | 25.00 | No. | 175.81 | 4395.25 |
| 18 | SITC of Electronic Timer | 5.00 | No. | 1318.59 | 6592.95 |
| 19 | SITC of Electronic Overload Relay with auto scrolling & all protection for motors) | 5.00 | No. | 10548.65 | 52743.25 |
| 20 | SITC of 63A Contactor MNX400 L&T make | 10.00 | No. | 6769.97 | 67699.70 |
| 21 | Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only | 4.00 | Ea | 6173.12 | 24692.48 |
| 22 | Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only | 4.00 | Ea | 8055.76 | 32223.04 |
| 23 | Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating 200A. with variable Thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing ICS=100% of ICU only | 4.00 | Ea | 16221.61 | 64886.44 |
| 24 | Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. and above at 415 V . having normal current rating 250A. with variable thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III | 4.00 | Ea | 20946.39 | 83785.56 |

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| 25 | SITC of Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 50 KA and above at 415 V having Normal current rating up to 320A with variable Thermal & magnetic release suitable to work on A.C. supply 50 c/s. With all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III | 3.00 | Ea | 18532.44 | 55597.32 |
| 26 | Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 50 KA and above at 415 V having Normal current rating 400A. with variable Thermal & magnetic release suitable to work on A.C. supply 50 c/s. With all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III | 5.00 | Ea | 25228.79 | 126143.95 |
| 27 | Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 50 K.A. and above at 415 V having normal current rating 800A. with variable thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III | 3.00 | Ea | 30733.29 | 92199.87 |
| 28 | Providing & erecting 415 V MCB three Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity | | | | 0.00 |
| a | (a)6 to 32 Amp. Cat.III | 4.00 | Ea. | 471.67 | 1886.68 |
| b | (b)40 Amp. Cat.III | 6.00 | Ea. | 488.84 | 2933.04 |
| c | (c)63 Amp. Cat.III | 8.00 | Ea. | 587.82 | 4702.56 |
| 29 | Providing and erecting Approved make Three pole moulded case circuit breaker having breaking capacity ICU of 25 K.A. at 415 V having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III | 4.00 | Ea | 5355.02 | 21420.08 |
| 30 | Providing and erecting AC-3 duty 3 pole power contactors spare kits (L & T, C&S, BCH, T.C. Siemens, make). | | | | 0.00 |
| a | (a) for 25 / 32 A rating | 6.00 | Ea. | 3253.21 | 19519.26 |
| b | (c) for 60 / 70 A rating | 10.00 | Ea. | 8141.61 | 81416.10 |
| 31 | Supplying and erecting Direct On-line Electronics Starter with 2-5/4-10/8-14/10-16 Amp. Rating relay (variable current setting) directly operated in totally insulated elegant enclosure and 18 Amp. Rating power relay with start - stop button for single phase operation up to 3 HP as per complete erected on P.W. Block with following features. Low voltage cut off below 140 V High voltage cut off above 280 V Overload protection Indicating LEDs for motor on lv, hv & overload tripping. [Cat.II] | 5.00 | Ea. | 1603.88 | 8019.40 |
| 32 | Supplying and erecting Direct on line starter with 30 Amp. (resistive @ 230v) power relay and with 2 to 5/ 4 to 10 / 8 to 20 amp. Range C.T. Operated electronic overload relay in engineering grade plastic enclosure for 3 ph 415v 50 HZ A.C. motor up to 7.5 HP with high voltage protection (above 480 v) and under voltage protection (below 330 v) current sensing single phasing protection. Reverse phasing protection, inverse current characteristic overload protection with indication for On, OL, HV, LV SPP in a single unit with feather touch start / stop push button, high temperature with standing Bakelite terminals complete erected on P.W. Block with necessary connection [Cat II] | 6.00 | Ea | 2168.47 | 13010.82 |
| 33 | Supplying and erecting push button operated fully automatic Star-Delta starter with 3 Nos. of 32A. rating contactors and. 1 No. of directly operated thermal overload relay having 20-32A range in sheet steel enclosure for 3 phase 415V. 50 c/s. A.C. motors up to 35 H.P. complete erected on (a)P.W. Block with necessary connection Cat.III | 8.00 | Ea | 12069.5 | 96556.00 |
| 34 | Supplying and erecting push button operated fully automatic Star-Delta starter with 3 Nos. of 95A. rating contactors and. 1 No. of directly operated thermal overload relay having 45-85A range in sheet steel enclosure for 3 phase 415V. 50 c/s. A.C. motors up to 60 H.P. complete erected on (a)P.W. Block with necessary connection. Cat.III. | 2.00 | Ea | 20895.63 | 41791.26 |
| 35 | SITC of 25KVAR Capacitor | 10.00 | No. | 11537.59 | 115375.90 |
| 36 | Neutral Link for (i) 32/63/125 Amps | 30.00 | Ea | 137.36 | 4120.80 |
| 37 | Providing and erecting following additional parts for panel mounting MCCBs (A)Extended operating rotary handle with pad lock with three position trip, off, on suitable for 25A to 250 A panel mounting cat-III | 8.00 | Ea. | 873.65 | 6989.20 |

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| 38 | SITC of Providing and erecting following additional parts for panel mounting MCCBs (B) Extended operating rotary handle with pad lock with three position trip, off, on suitable for 400A to 800A panel Mounting | 5.00 | Ea. | 1547.64 | 7738.20 |
| 39 | Supply of Approved make Iron Clad or metal clad four pole change over switch 415V. confirming to IS of following capacity (B) 400 A Cat-III | 2.00 | Ea. | 26106.48 | 52212.96 |
| 40 | SITC of Approved make Iron Clad or metal clad four pole change over switch 415V. confirming to IS of following capacity up to 450 A Cat-III | 1.00 | Ea. | 29331.33 | 29331.33 |
| 41 | Providing & erecting additional parts for Air Circuit Breakers as follows: (A) Auxiliary Contact Block for CN-CS 800 to 2500 & 2 NO + 2 NC | 10.00 | Ea | 1670.54 | 16705.40 |
| 42 | Supplying & erecting 20 Amp 10 KA 'C Curve' single pole MCB with 20 Amp. Plug socket, company fabricated powder coated sheet steel enclosure erected as directed with connection. [A] Metal Clad Socket with metal clad top | 12.00 | Ea | 527.22 | 6326.64 |
| 43 | Providing and fixing approved make Perforated C type cable tray. Made from sheet steel. The cable tray should be single or double bended as per required and as per IS 2062/1079 and shall be coated with hot dip galvanizing as per IS 2629/4759. with max 17.5% perforation with coupler plate / Fish plate and GI hardware like nut - bolt and washers etc. erection with necessary support(included) as per Specification and as per instruction of engineer in charge..(5) 300 X 50 X 2.0 mm Thick | 250.00 | RMT | 622.16 | 155540.00 |
| 44 | Transformer oil having good resistance to high electrical stress, high dielectric strength (50KV) low viscosity, low pour point, high flash point and excellent thermal properties for efficient heat transfer and cooling as per I.S.335 -1972. | 800.00 | Ltr. | 90.9 | 72720.00 |
| 45 | Filtration of transformer oil as per I.S. for removal of moisture, carbon slurry etc.by means of circulating oil through vacuum pump from heating elements and filters to with stand the breaking strength of the oil above 40KV beyond one minute tested in oil testing Kit. (A) on site. | 799.00 | Ltr. | 8.08 | 6455.92 |
| 46 | Replacing old and unserviceable gasket of Top cover plate of Transformer having following capacity. (D)750 KVA | 8.00 | Ea | 836.28 | 6690.24 |
| 47 | Replacing the breather of the Transformer of following capacity. (B) 500 KVA/750 KVA/1000 /1250 KVA | 25.00 | Ea | 1712.96 | 42824.00 |
| 48 | Inside painting of 250/ 315 / 500 / 750 / 1000 /1250 KVA transformer | 5.00 | Ea | 1456.42 | 7282.10 |
| 49 | Outside painting of Transformer for the following capacity (B) 750 / 1000/1250 KVA | 3.00 | Ea | 1712.96 | 5138.88 |
| 50 | Supplying rubber matting of following thickness as per IS:15652/IEC 61111 (c)12mm | 60.00 | Sq.Mtr | 3081.51 | 184890.60 |
| 51 | Providing and fixing printed instruction chart both in English and Gujarati and duly framed with front glasses, for treatment of person suffering from Electric shock with minimum 50" diagonally size. | 5.00 | Ea | 130.29 | 651.45 |
| 52 | Supplying & erecting ABC powder type 'Ceasefire' type Fire extinguisher as per IS 13849 or 1 Kg capacity with necessary clamp for erection on wall | 6.00 | Ea | 848.4 | 5090.40 |
| 53 | Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables | | | | 0.00 |
| a | (I) 3 1/2 core 240 Sq. mm (120 Sq. mm 1/2 core) | 100.00 | Mtr | 1168.57 | 116857.00 |
| b | (K) 3 1/2 core 400 Sq.mm (185 Sq. mm 1/2 core) | 250.00 | Mtr | 1747.3 | 436825.00 |
| 54 | Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. | | | | 0.00 |
| a | (C) 3 core 6 Sq. mm | 200.00 | Mtr. | 107.06 | 21412.00 |
| b | (D) 3 core 10 Sq. mm | 300.00 | Mtr. | 131.3 | 39390.00 |
| c | (E) 3 core 16 Sq. mm | 309.00 | Mtr. | 143.42 | 44316.78 |
| d | (G) 3 core 35 Sq. mm | 300.00 | Mtr. | 190.89 | 57267.00 |
| e | (I) 3 core 70 Sq. mm | 260.00 | Mtr. | 321.18 | 83506.80 |
| f | (k) 3 core 120 Sq. mm | 250.00 | Mtr. | 500.96 | 125240.00 |
| 55 | Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1) 1 no. 6A/16A universal plug-switch combined. 2)3 nos. 6A Switch 3). 3 nos. 6A 5 pin Plug For Modular Type Accessories | 8.00 | Ea | 1133.22 | 9065.76 |

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|----|--|-------|------|----------|----------|
| 56 | Supplying and erecting LED 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/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(A) Tube Light with integral driver (iv) 22-24 Watts, Surge - 2KV,IP-20, conventional 4 feet | 25.00 | Ea. | 373.7 | 9342.50 |
| 57 | Providing & erecting Approved make Ceiling Fan with double ball bearing ISI mark with condenser A.C.230V 50c/s. 1400 mm. sweep complete, canopy erected on existing hook or clamp with earthing [Make shall be approved by Engineer in Charge] | 5.00 | Ea. | 1738.21 | 8691.05 |
| 58 | Providing Fan clamp of 30 x 5 mm flat of required length & 10 mm M.S. Bolt & Nuts erected with necessary hook of 10 mm M.S. Round Bar. | 5.00 | Ea. | 98.98 | 494.90 |
| 59 | Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box. | 5.00 | Ea. | 18.18 | 90.90 |
| 60 | Point wiring for Light / Fan/ Bell/ Primary Point with 2-1.5 sq. mm & earth wire of 1.5 sq. mm (green) both are of ISI marked 1.1 kv grade FRLS PVC insulated multi strand copper wires upto max length of 10 mt, in below type of pipe erected with 6A Tissino Type ISI marked flush type switch / bell push and accessories erected on Metal / PVC/Wooden Box covered with 3 mm thick PC(Polycarbonate) /Acrylic/Laminated sheet. with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete | 26.00 | Pt | 387.84 | 10083.84 |
| 61 | SITC OF 11KV 400Amp AB Switch | 1.00 | Nos. | 28745.4 | 28745.40 |
| 62 | SITC OF 11KV DO Fuse Unit | 1.00 | Nos. | 19472.69 | 19472.69 |
| 63 | SITC OF 1000KVA Transformer Radiator | 2.00 | Nos. | 39872.65 | 79745.30 |
| 64 | SITC Of various spare part of ABB ACS 550 -125A MAKE 75HP VFD AS and where Required as Below | | | | 0.00 |
| a | Diode Module 109A | 6.00 | Nos. | 2837.7 | 17026.20 |
| b | Capacitor Bank | 8.00 | Nos. | 2837.7 | 22701.60 |
| c | SMD Components | 6.00 | Set. | 1004.11 | 6024.66 |
| d | Control Card | 2.00 | Nos. | 8294.8 | 16589.60 |
| e | Semi Conductor Fuse 200A | 2.00 | Nos. | 2182.84 | 4365.68 |
| f | IGBT Module 200A | 6.00 | Nos. | 6548.53 | 39291.18 |
| g | IN Put Chock 300A | 2.00 | Nos. | 10914.2 | 21828.40 |
| h | Firing ICS | 12.00 | Nos. | 436.57 | 5238.84 |
| i | Power Board | 2.00 | Nos. | 19645.57 | 39291.14 |
| j | SMD & Firing Spares | 10.00 | Nos. | 1309.71 | 13097.10 |
| 65 | SITC Of various spare part ABB ACS 550 MAKE 30HP VFD AS and where Required as Below | | | | 0.00 |
| a | Diode Module 50A | 2.00 | Nos. | 4191.06 | 8382.12 |
| b | Capacitor Bank | 16.00 | Nos. | 873.13 | 13970.08 |
| c | SMD Components | 6.00 | Set. | 1004.11 | 6024.66 |
| d | Control Card | 2.00 | Nos. | 7421.66 | 14843.32 |
| e | Semi Conductor Fuse 200A | 2.00 | Nos. | 2182.84 | 4365.68 |
| f | IGBT Module 100A | 2.00 | Nos. | 8294.8 | 16589.60 |
| g | IN Put Chock 150A | 2.00 | Nos. | 6548.53 | 13097.06 |
| h | Firing ICS | 12.00 | Nos. | 436.57 | 5238.84 |
| i | SMD & Firing Spares | 4.00 | Set. | 9167.93 | 36671.72 |
| j | Power Board | 2.00 | Nos. | 1309.71 | 2619.42 |
| 66 | SITC Of various spare part of ABB ACS 550 MAKE 10/15 HP VFD AS and where Required as Below | | | | 0.00 |
| a | Diode IGBT Module Single Pack 40A | 1.00 | Nos. | 5937.33 | 5937.33 |
| b | Capacitor Bank | 6.00 | Nos. | 873.13 | 5238.78 |
| c | SMD Components | 3.00 | Set. | 1004.11 | 3012.33 |
| d | Control Card | 1.00 | Nos. | 7421.66 | 7421.66 |
| e | Firing ICS | 6.00 | Nos. | 436.57 | 2619.42 |

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| f | Power Board | 1.00 | Nos. | 6548.53 | 6548.53 |
| g | IN Put Chock 300A | 1.00 | Nos. | 4802.25 | 4802.25 |
| 67 | SITC Of various spare part of Yaskawa F7 Make 60 HP VFD AS and where Required as Below | | | | 0.00 |
| a | Diode Module 53A | 15.00 | Nos. | 4889.56 | 73343.40 |
| b | IGBT Module 200A | 15.00 | Nos. | 8120.17 | 121802.55 |
| c | Firing ICS | 30.00 | Nos. | 240.12 | 7203.60 |
| d | SMD Components | 15.00 | Set. | 1527.99 | 22919.85 |
| e | Semi Conductor Fuse 200A | 5.00 | Nos. | 1527.99 | 7639.95 |
| f | Electrolightic Capacitor 3000 MFD, 400 Volt | 20.00 | Nos. | 1964.56 | 39291.20 |
| g | Power Board | 5.00 | Nos. | 21391.84 | 106959.20 |
| h | Control Card | 5.00 | Nos. | 10914.2 | 54571.00 |
| i | Capacitor Bank | 30.00 | Nos. | 2837.7 | 85131.00 |
| 68 | SITC Of various spare part of Yaskawa F7 Make 120HP VFD AS and where Required as Below | | | | 0.00 |
| a | Diode Module | 6.00 | Nos. | 4889.56 | 29337.36 |
| b | IGBT Module 200A | 12.00 | Nos. | 8120.17 | 97442.04 |
| c | Firing ICS | 6.00 | Nos. | 240.12 | 1440.72 |
| d | SMD Components | 3.00 | Set. | 1527.99 | 4583.97 |
| e | Semi Conductor Fuse 900A | 1.00 | Nos. | 7421.66 | 7421.66 |
| f | Electrolightic Capacitor 4000 MFD, 400 Volt | 8.00 | Nos. | 3710.83 | 29686.64 |
| g | Power Board | 1.00 | Nos. | 24884.39 | 24884.39 |
| h | Control Card | 1.00 | Nos. | 12660.48 | 12660.48 |
| 69 | SITC of DO Wire | 12.00 | Kg. | 569.39 | 6832.68 |
| 70 | SITC of Lugs various type Size | 200.00 | No. | 122.02 | 24404.00 |
| 71 | SITC of Nut-Bolt(SS) full threaded with double washer Various type pump set & panels | 20.00 | No. | 203.35 | 4067.00 |
| 72 | SITC of Nut-Bolt(MS) full threaded with double washer Various type pump set & panels | 20.00 | Kg. | 113.88 | 2277.60 |
| 73 | SITC of Nut-Bolt(GI) full threaded with double washer Various type pump set & panels | 20.00 | No. | 146.42 | 2928.40 |
| 74 | SITC of Knife / Blade / DIN type HRC fuse link capable to withstand 80 K.A. confirms to I.S. 13703 for following current capacity (B) 63 Amp to 100 Amp (Size 00) | 12.00 | Ea. | 363.6 | 4363.20 |
| 75 | SITC of Internal Lock Various panel | 4.00 | No. | 1464.14 | 5856.56 |
| 76 | SITC of AC to DC converter | 4.00 | No. | 1626.83 | 6507.32 |
| 77 | Microprocessor Based LV Variable Frequency Drive, Suppl, installation, testing & commissioning of 415 V Fully automatic microprocessor based Variable Frequency drive for pump control application as per general specification as under: The VFD unit shall have modular construction, 6 Pulse Bridge rectifier, speed control by means of sensorless vector control (open loop), high torque at low frequencies, locking at high and low frequency settings, In-built PID control, frequency accuracy of ± 0.1 % (min), frequency resolution of ± 0.1 Hz (min), protections against; a) overload (motor and drive), b) short circuit, c) ground fault, d) input / output phase loss (open circuit), e) stalling, f) input / output undervoltage (momentary power loss restart), g) input / output overvoltage,h) over-frequency, i) Input surge, j) over temperature of heatsink, k) loss of remote speed signal etc. The VFD shall also have userfriendly programming software & it shall be capable of at least two level parameter setting with password lock for critical parameters,rogramming for I/Os, speed search function, copy parameters (upload / download) to other identical unit, tuning to energy saving mode (maximum efficiency), event / fault recording (last 5 faults in non-volatile memory) & RS 485 communication port (MODBUS RTU protocol) with required software., - 45 kW | 3.00 | Job | 95858.09 | 287574.27 |

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|-------------------|--|------|-----|-----------|---------------------|
| 78 | Microprocessor Based LV Variable Frequency Drive, Suppl, installation, testing & commissioning of 415 V Fully automatic microprocessor based Variable Frequency drive for pump control application as per general specification as under: The VFD unit shall have modular construction, 6 Pulse Bridge rectifier, speed control by means of sensorless vector control (open loop), high torque at low frequencies, locking at high and low frequency settings, In-built PID control, frequency accuracy of ± 0.1 % (min), frequency resolution of ± 0.1 Hz (min), protections against; a) overload (motor and drive), b) short circuit, c) ground fault, d) input / output phase loss (open circuit), e) stalling, f) input / output undervoltage (momentary power loss restart), g) input / output overvoltage, h) over-frequency, i) Input surge, j) over temperature of heatsink, k) loss of remote speed signal etc. The VFD shall also have userfriendly programming software & it shall be capable of at least two level parameter setting with password lock for critical parameters, rogramming for I/Os, speed search function, copy parameters (upload / download) to other identical unit, tuning to energy saving mode (maximum efficiency), event / fault recording (last 5 faults in non-volatile memory) & RS 485 communication port (MODBUS RTU protocol) with required software., - 22 kW | 2.00 | Job | 56808.46 | 113616.92 |
| 79 | SITC of fencing of Transformer yard at Water supply pumping station suitable size require 624 sq ft including pillar 40*40*3 connecting pillar pipe 25*25*3 and Gate size 5ft*6ft for yard entry with including civil work and materials and one coat primar and final coat silver.etc.The job carried out as par engineer in charge. | 1.00 | Job | 255196.18 | 255196.18 |
| TOTAL RS.: | | | | | 68,60,748.77 |

I / We agree to carry out the above work at _____ % **above** the estimated rate ((In Words) _____) percentage above the Estimated Tender Rate.

I / We agree to carry out the above work at _____ % **below** the estimated rate ((In Words) _____) percentage below the Estimated Tender Rate.

Estimated Amount

Estimated Amount

Put to Tender

Rs. **68,60,748.77/-**

Put to Tender

Rs. **68,60,748.77/-**

Add % Above

Rs. _____

Deduct % Below

Rs. _____

Net Amount

Rs. _____

Net Amount

Rs. _____

Net In Figure

Rs. _____

Net in Figure

Rs. _____

I / We have read the Condition mentioned in this tender and agree to abide by the same.

Note:- Estimated Cost put to tender is excluding GST and Including all other Taxes. GST will be paid additional as per applicable rate prevailing from time to time and all other statutory liabilities are part of estimated cost and will be bound by bidder. Prospective bidder may please by read carefully, app prevailing policy /Government Resolution (GT) of Govt. of Gujarat (GoG)/competent authority, regarding GST and submit the price bid offer accordingly.

Signature of Contractor with Seal

Chief Officer,
Sachin Notified Area
G.I.D.C.-SACHIN