



भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA KADAPA AIRPORT

सं.सं.भाविप्रा/कडप्पा/इंजी-वि/एफ. सं/ डब्ल्यू.सं/ सी-05/2023-24

दि. : 06.03.2024

Ref.No: AAI/KDP/Engg(E)/F.No.C-05/W.No./2023-24/4139

Dt. : 06.03.2024

सेवामें / To

M/s. SRI KESARI ENGINEERING,

D. No. 10-4-53,

Electrical Sub-Station Street,

Gowthami Nagar,

Kovvur,

West Godavari – 534350

M.No.9505999952 / 9885211677

Email Id : srikesariengineering@gmail.com

Name of work: Provision of Electrical works at Substation, SITC of submersible pumps for Borewells and other Miscellaneous Electrical Works at Kadapa Airport.

Ref:

i) E-tender- 2024_AAI_180589_1 dated 08/01/2024

Dear Sir (s)

1. Your E-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates/ ~~percentage rate~~ quoted by you totalling to Rs.73,91,795.00 (Excl. GST) (**Rupees Seventy-Three lakhs Ninety-One Thousand Seven Hundred and Ninety-Five only**) which is 13.59 % below the Estimated cost put to tender of Rs. 85,54,654/- (Excl. GST).
2. Deputy General Manager (Engg-Elect), AAI, Kadapa Airport, Kadapa, shall be the Engineer-in-Charge of the work. You are requested to attend the office of the **Deputy General Manager (Engg-Elect), AAI, Kadapa Airport, Kadapa**, within 10 days to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.100.00 (Rupees Hundred only)** and the cost of the stamp paper shall be borne by you.
3. Please deposit **Rs.7,39,180.00/- (Rupees Seven Lakhs Thirty-Nine Thousand One Hundred and Eighty only)** as Security Deposit within 10 days from the date of issue of this letter failing which, the same will be deducted as per condition of Clause no. 1A at page no GCC-22 of contract document.



भारतीय विमानपत्तन प्राधिकरण

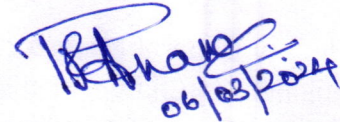
AIRPORTS AUTHORITY OF INDIA KADAPA AIRPORT

4. You are requested to comply with the provision of contract labour (Regulation and Abolition) Act 1970 and contract labour (Regulation and Abolition) Central Rules 1971, Child Labour (Prohibition and Regulation) Act 1986, Construction Workers (Regulation of Employment and Condition of Service) Act 1996, Building and Other Construction Workers Welfare cess Act 1996 as specified in Clause 19 on Pg no. 72 of GCC of tender and rules of Central and State Government incl. minimum wages act and rules.
5. You are also directed to contact, **Manager (Engg-Elect)**, AAI, Kadapa Airport immediately who will arrange to hand over the site to you.
6. Please note that the time allowed for carrying out the work shall be **04 Months** and same shall be reckoned from **15.03.2024**.
7. Any further correspondence in connection with the contract should normally be addressed to the **Engineering In-Charge**.
8. Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.

भवदीय / Yours faithfully

अनुलग्नक / Encl : अनुसूची

(i) BoQ (Bill of Quantities)


06/03/2024

वरिष्ठ प्रबंधक (अभियांत्रिकी-वि)/ Senior Manager (Engg-E)
भा वि प्रा, कडप्पा हवाईअड्डा /AAI, Kadapa Airport
अध्यक्षपद पर तथा की ओर से / For and on behalf of Chairman
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India

BILL OF QUANTITIES (BoQ)**Name of Work: Provision of Electrical works at Substation, SITC of submersible pumps for Borewells and other Miscellaneous Electrical works at Kadapa Airport**

Tender ID - 2024_AAI_180589_1

Sl. No.	Item Description	Quantity	Unit	Rate (Excl. GST)	Amount (Excl. GST)
1	2	4	5	13	53
1	Design , fabrication, Supply, Installation ,Testing and Commissioning of self standing , floor mounted indoor type LT cubicle panel made out of 14SWG CRCA sheet steel, totally enclosed, weather , dust , vermin proof having IP class of not less than IP 42 , fully compartmentalized , Form 4 b separation , with high conductivity aluminium busbar having minimim current capapcity of 250A suitable for operation at 415V, 3 Phase , 4 Wire , 50 Hz AC system complete with all accessories , making all necessary connections and interconnections , providing and fixing required set of metering and protection CTs of appropriate class and burden , cable allen for terminations of cables with top/bottom entry as required as per site conditions , necessary locking arrangements , powder coated with approved shade etc. A bottom base channel of suitable size and thickness shall be provided during installation . two runs of GI earth bar shall run throughout the entire length and also pass through all compartments . The size of the earth bar shall be designed as per the SC fault current at the site. Overall , the LT panel shall comply with the relevant IS and the tender technical specifications in complete . If BIS specifications are not avialbe , relevant IEC shall be applicable . INCOMER: i) 250A , Four Pole , 36 KA (ICu=ICs) ,Thermal Magnetic MCCB with adjustable overload & short circuit protections with spreader link and Extended rotary handle with ON ,OFF & TRIP indication lamps including 3 Nos of resin cast CTs with multi function digital meter --2 Nos ii) R,Y B Phase indication lamps with 2A Control MCBs - 2 Nos BUSCOUPLER : i) 250A , Four Pole , 36 KA (ICu=ICs)Thermal Magnetic MCCB with spreader link and Extended rotary handle with ON & OFF indication lamps. ii) Electrical and mechanical interlocking shall be provided to ensure that only one supply at a time on each section of bus and eliminate any possibilty of accidentally approaching two supplies at a bus section . OUTGOING : ii) 200A , Four Pole , 36 KA (ICu=ICs),Thermal Magnetic MCCB with adjustable overload & short circuit protections with spreader link and Extended rotary handle with ON ,OFF & TRIP indication lamps - 3 Nos iii) 125 A , Four Pole , 36 KA (ICu=ICs),Thermal Magnetic MCCB with adjustable overload & short circuit protections with spreader link and Extended rotary handle with ON ,OFF & TRIP indication lamps- 1 Nos iii) 63A , Four Pole , 36 KA (ICu=ICs),Thermal Magnetic MCCB with adjustable overload & short circuit protections with spreader link and Extended rotary handle with ON ,OFF & TRIP indication lamps - 2 Nos	1	Job	420000.00	420000.00
2	Supply of 3 Core x 185 SQmm HT cable of 6.6KV(UE)/11KV (E) ,Stranded compact circular aluminium conductor ,conductor screened with extruded semiconducting compound ,XLPE insulated , insulation screening with extruded semiconducting compound in combination with copper tape (0.3 KA for 1 Sec) ,cores laid up ,inner sheath of PVC tape ,galvanized falt steel armoured and overall PVC sheathed conforming to IS 7098 part II with latest amendments	200	Mtr	1190.00	238000.00

3	Supply, Installation, Testing and Commissioning of 4 Pole , 50 KA(Icu=Ics) , 400A Motorised MCCB with microprocessor release containing UV coil, Auxiliary switch with spreader terminals having adjustable O/C & S/C protection along with 230V ,50Hz Motor operator including dismantling the existing Motorised MCCBs ,making necessary modification/ Replacement of busbar connections from main bus bar to MCCBs with aluminium busbars of required capacity and size as per site conditions complete as required and as per directions of Engineer - in - charge.	2	Job	28000.00	56000.00
4.1	supplying and fixing following rating vertical mount Delta connected Super heavy duty cylindrical type Metalized poly propylene capacitors with discharge resistors , electric shock protected capacitor safety terminals ,overpressor disconnector i/c giving connection, dismantling the old capacitors as required. 3 Phase , 25 KVAR , 440V , 50 Hz	4	Each	7500.00	30000.00
4.2	3 Phase , 15 KVAR , 440V , 50 Hz	4	Each	4800.00	19200.00
4.3	3 Phase , 10 KVAR , 440V , 50 Hz	10	Each	3200.00	32000.00
4.4	3 Phase , 5 KVAR , 440V , 50 Hz	4	Each	2200.00	8800.00
5.1	Supplying and fixing following rating Three pole Capacitor Duty Contactors with 1 NO and 1 NC auxiliary contacts i/c giving connection, dismantling the existing contactors etc.. complete as required 5 KVAR , 50Hz , 440V	1	Each	3500.00	3500.00
5.2	10 KVAR , 50Hz , 440V	1	Each	3800.00	3800.00
5.3	15 KVAR , 50Hz , 440V	1	Each	4200.00	4200.00
6	Supplying and fixing of following rating control contactors along with four way front mounted add on contact blocks i/c giving connection , dismantling old contactors as required 2 NO +2NC with 24V DC coil voltage	10	Each	12000.00	120000.00
7	Supplying and fixing of Four pole, 25 Amps (AC1 duty), 230V AC coil operated power contactor suitable for operation on 415V, 50 Hz supply i/c giving connection, dismantling old contactors etc.. complete as required.	6	Each	1200.00	7200.00
8	Supply and Installation of Panel mount type , 3 Phase , 4 wire , Digital Multifunction meter having inbuilt selection switch with CT Primary current programmable from 5A - 9999A ,CT secondary current programmable for 5A/1 A, 3 row digital display , including making connections capable to provide voltage, current , Frequency , Active Power , Reactive power , Power factor , Energy etc complete as required	5	Each	22000.00	110000.00

TAB

9	Supplying and fixing of following illuminated LED type flush mount push button actuator with spring return along with contact elements in the existing APFC panel. 1) 22.5mm Dia Red	2	Each	360.00	720.00
10.1	Supplying of following integrated LED Pilot Indication lamps suitable for operation on 230V ,50 Hz AC supply 22.5 mm Dia Red	30	Each	240.00	7200.00
10.2	22.5 mm Dia Yellow	20	Each	240.00	4800.00
10.3	22.5 mm Dia Blue	20	Each	240.00	4800.00
10.4	22.5 mm Dia Green	30	Each	360.00	10800.00
11	Supply of 63A ,500V, 50Hz DIN type HRC fuse link with 80KA breaking capacity suitable for Size 00 fuse base	6	Each	450.00	2700.00
12	Supplying of DIN mail mounted ON Delay / interval Timer with 2 C/O DPDT relay contacts suitable for operation on 240V , 50 Hz AC supply	1	Each	3400.00	3400.00
13	Supplying and fixing 32 A rating, 240/415 V, 10 kA, "B" curve, miniature circuit breaker suitable for non- inductive load of following poles in the existing DB / Feeder pillar Panel complete with connections, testing and commissioning etc. as required. Four Pole	5	Each	754.00	3770.00
14	Supplying of 110mm outer dia ISI marked HDPE pipe of PN6 , PE63 grade, conforming to IS 4984 amended upto date complete with fitting and cutting, jointing etc., complete as required.	200	Mtr	320.00	64000.00
15	Laying of 110mm Dia HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to relevant IS complete with fitting and cutting, jointing etc.direct in ground upto 120 cm depth including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required	200	Mtr	140.00	28000.00
16	Laying of one number PVC insulated and PVC sheathed / XLPEpower cable of 11 KV grade of following size in the existing RCC/HUME/ METAL/ HDPE pipe as required. Above 120 sq. mm and upto 400 sq. mm	200	Mtr	120.00	24000.00
17	Laying of one number PVC insulated and PVC sheathed / XLPEpower cable of 1.1 KV grade of following size in the existing cable trench as required. Above 185 sq. mm and upto 400 sq. mm	300	Mtr	180.00	54000.00

Handwritten signature

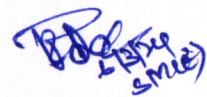
18	Repairing of 11 KV VCB draw out mechanism including removing the VCB from the HT panel , dismantling the complete mechanism , replacing the damaged worm wheel , re-assembling ,lubrication of moving parts , checking of alignments to facilitate smooth rack in and rack out operations, testing for functional checks etc, complete as required .	2	Job	35000.00	70000.00
19	Repairing of 100VA, 11 KV / 110V Draw out type Potential transformer including supply and replacement of 11KV HRC fuses , providing fuse holding springs with suitable pitch and gauge equivalent to existing springs for all three phases , testing as per directions of Engineer In Charge	1	Job	45000.00	45000.00
20	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required. a) 185 Sqmm	1	Each	6500.00	6500.00
21	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required a) 185 Sq.mm	1	Each	6500.00	6500.00
22	Supplying and fixing cable route marker with 10cm x 10cm x 5mm. thick G.I plate with inscription thereon, bolted/welded to 35mm x 35mm x 6mm angle iron, 60cm long and fixing the same in ground as required.	30	Each	1200.00	36000.00
23	Supply and fixing of fire retardant electrically insulated synthetic mat (preferably blue colour) of class A, 2mm thick suitable for all voltages not exceeding 3.3 KV AC meeting requirements of IS 15652:2006 tested for breakdown strength, tensile/elongation,aging properties, insulation resistance, effect to acid, alkaline, diesel, transformer oil & leakage current test, fire test etc.along with all allied materials such as Pu-resin, Chemi bound, special PVC adhesive, liquid primer etc. in what so ever quantity required to complete the job as per site conditions and as per instructions from Engineer-in-Charge.	20	Sq. Mtr	1200.00	24000.00

Handwritten signature
6/3/24

24	Supply and fixing of fire retardant electrically insulated synthetic mat (preferably blue colour) of class B, 2.5 mm thick suitable for all voltages not exceeding 11 KV AC meeting requirements of IS 15652:2006 tested for breakdown strength, tensile/elongation, aging properties, insulation resistance, effect to acid, alkaline, diesel, transformer oil & leakage current test, fire test etc. along with all allied materials such as Pu-resin, Chemi bound, special PVC adhesive, liquid primer etc. in what so ever quantity required to complete the job as per site conditions and as per instructions from Engineer-in-Charge.	50	Sq. Mtr	1600.00	80000.00
25.1	Providing and fixing following rating MCCB with Thermal Magnetic release and spreader terminals, Extended Rotary handle with padlocking provision in the existing cubical panel board including dismantling the existing MCCBs, drilling holes in the cubicle panel, making connections, making modification/ replacement of connections from MCCB to Busbars with in Aluminium Busbar of required capacity and size including necessary modifications in cubical panel as per site condition etc., complete as required Three Pole, 250 Amps, 36 KA (Icu = ICs) with Adjustable Overload and & Adjustable Short Circuit	2	Each	22000.00	44000.00
25.2	Three Pole, 200 AMps, 36 KA (Icu=Ics) with adjustable Overload and & Adjustable Short Circuit	4	Each	22000.00	88000.00
25.3	Three Pole, 100 Amps, 36 KA (Icu=Ics) with adjustable Overload and & Adjustable Short Circuit	2	Each	19000.00	38000.00
26	Supply of LED Recessed Round Downlighter made of powder coated die cast aluminium housing with PMMA /polycarbonate/Opal diffuser capable of providing lumen output not less than 2500 Lumens and minimum system efficacy of 100lm/W, CCT from 5700K to 6500K, CRI>80, PF>0.95 suitable for operation on 230V, 50Hz supply etc complete with 5 Year manufacturer warranty from the certified date of completion of the work and complying with relevant IS with upto date amendments as per technical specifications as required	50	Each	800.00	40000.00
27	Supply of Surface type 2ft x2ft LED Flat panel light made of powder coated CRCA housing capable of providing with glare free symmetrical illumination with lumen output not less than 3600 Lumens and minimum system efficacy of 100lm/W, CCT from 5700K to 6500K, CRI>80, PF>0.95 suitable for operation on 230V, 50Hz supply etc complete with 5 Year manufacturer warranty from the certified date of completion of the work and complying with relevant IS with upto date amendments as per technical specifications as required	15	Each	2400.00	36000.00
28	Supply of LED Flood Light made of powder coated die cast aluminium housing with secondary lens and toughened glass capable of providing lumen output not less than 5000 Lumens and minimum system efficacy of 110 lm/W, CCT from 5700K to 6500K, CRI>70, PF>0.95 suitable for operation on 230V, 50Hz supply etc complete with 5 Year manufacturer warranty from the certified date of completion of the work and complying with relevant IS with upto date amendments as per technical specifications as required.	10	Each	3400.00	34000.00
29	Supply of 3.5C X 300 Sq.mm XLPE insulated PVC sheathed, armoured Aluminium conductor power cable of 1.1 KV grade as per IS 7098 part I 1988 with up to date amendments etc. as required.	200	Mtr	1100.00	220000.00
30	Supply of 3.5C X 50 Sq.mm XLPE insulated PVC sheathed, armoured Aluminium conductor power cable of 1.1 KV grade as per IS 7098 part I 1988 with up to date amendments etc. as required.	550	Mtr	270.00	148500.00

Handwritten signature and date:
 25/12/2023
 smk

31	Supply of 4C X16 Sq.mm XLPE insulated PVC sheathed, armoured Aluminium conductor power cable of 1.1 KV grade as per IS 7098 part I 1988 with up to date amendments etc. as required.	1600	Mtr	120.00	192000.00
32	Supply, Installation, Testing ,Commissioning of 6KVA capacity Single phase online UPS with advanced DSP and double conversion technology suitable to operate on 230V , 50 Hz supply . The UPS shall be equipped with input power factor correction , output galvanic isolation , static bypass ,cold start capability , compatibility with Generator supply , advance communication facilities , user friendly LCD/LED display with protections for overload , short circuit , overvoltage , low battery etc .The item also includes supply of required/suitable size & number of 12V VRLA SMF batteries suitable to provide a backup time of minimum 15 minutes on full load with suitable battery racks to mount the batteries ,interconnection wires between batteries , battery disconnectors ,DC breaker , wire connection from battery bank to UPS with insulated copper wire of required size upto 10 Meters as per site condition etc complete as required	2	Each	330000.00	660000.00
33	Supplying and laying of following size DWC HDPE pipe ISI marked along with allaccessories like socket, bend, couplers etc. conforming to IS 14930, Part II completewith fitting and cutting, jointing etc.direct in ground (75 cm below ground level)including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required. 120 mm dia (OD-120 mm & ID-103 mm nominal)	1000	Mtr	210.00	210000.00
34	Supplying and laying of following size DWC HDPE pipe ISI marked along with allaccessories like socket, bend, couplers etc. conforming to IS 14930, Part II completewith fitting and cutting, jointing etc.direct in ground (75 cm below ground level)including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required. 63 mm dia (OD-63mm & ID-51 mm nominal)	3730	Mtr	180.00	671400.00
35	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 3.5C X 300 sq. mm (70mm)	8	Each	4800.00	38400.00
36	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 3.5C X 50 sq. mm	1	Each	1800.00	1800.00
37	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 4C X 16 sq. mm	4	Each	1200.00	4800.00
38	Supplying and making end termination with brass compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required. a) 10C X 2.5 sq. mm	12	Each	1800.00	21600.00

Handwritten signature and date:

 24/11/2024

39	Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 3.5C X 300 Sq.mm	2	Each	8000.00	16000.00
40	Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 3.5C X 50 Sq.mm	1	Each	4500.00	4500.00
41	Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 4C X 16 Sq.mm	2	Each	3500.00	7000.00
42	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required. a) Upto 35 Sq.mm	4130	Mtr	45.00	185850.00
43	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required. a) Above 35 Sqmm and upto 95 Sqmm	530	Mtr	110.00	58300.00
44	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required. a) Above 185 Sqmm and upto 400 Sqmm	1000	Mtr	140.00	140000.00
45	Laying and fixing one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface/cable tray as required. a) Upto 35 Sq.mm (clamped with 1mm thk saddle)	100	Mtr	80.00	8000.00
46	Installation, testing and commissioning of prewired LED fittings of all types complete with required mounting accessories directly on ceiling /wall/including connection with 1.5 sq.mm PVC insulated copper conductor single core cable and earthing etc. as required.	75	Each	1200.00	90000.00
47	Dismantling bituminous road by manually/ mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge.	3	Cum	4500.00	13500.00
48	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching upto 75cm depth and re-filling etc as required 50 mm dia"	36	Mtr	780.00	28080.00

Handwritten signature/initials in blue ink.

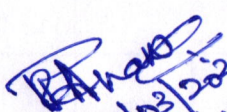
49	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching upto 75 cm depth and re-filling etc as required 150 mm dia"	18	Mtr	1800.00	32400.00
50	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required.	3	Cum	8500.00	25500.00
51	Supply of submersible borewell multistage pump set consisting of submersible water filled squirrel cage motor suitable to handle clear water for operation on 3Phase, 415 V, 50 HZ supply. Motor body , impeller , diffuser and shafts with motor diameter 6 inch or less. All bearings are water lubricated and suitably shaped bearings for sand flush, inlet strainer for prevents entering of particles , in-built non return valve Pump should coupled with cooled/water cooled submersible motor with bearing for smooth operation, tie-bars on studs bolts for connecting the pumps together suction casing, sleeve coupling to connect motor shaft to the pump shaft etc. complete as required to give a minimum discharge of 100 LPM at a total head of 300 Meter along with all accessories complete as required	2	Each	145000.00	290000.00
52	Supplying of following sizes of 1.1 KV grade, XLPE insulated, Aluminium conductor armoured Power Cable conforming to IS 7098 Part-I with up to date amendments complete as required as per specifications. 3.5C x 185 Sqmm	1400	Mtr	876.00	1226400.00
53	Supplying of following sizes of 1.1 KV grade, XLPE insulated, Aluminium conductor armoured Power Cable conforming to IS 7098 Part-I with up to date amendments complete as required as per specifications. 3.5C x 35 Sqmm	200	Mtr	245.00	49000.00
54	Supply of 1.1KV grade, flat type three core PVC insulated & PVC sheathed industrial cable for submersible pump motors conforming to IS 694 with up to date amendments complete as required as per specifications. 3 core 16 Sq.mm	700	Mtr	104.00	72800.00
55	Supply and lowering of Medium Class GI pipe of following size, threaded ends for each pipe to enable connection with suitable couplers as required in to the borewell along with already supplied flat cable tied to bore well column pipe & already supplied nylon rope for binding the motor pump set complete as required and as per instructions of Engineer-in-Charge Nominal Bore Dia - 50 mm	360	Mtr	625.00	225000.00
56	Installation ,testing ,commissioning of borewell motor pump set into the borewell column pipe of required size with top and bottom adapter set, bracket connector etc complete as required as per instructions of Engineer-in-Charge.	2	Each	25000.00	50000.00
57	Lifting of Under ground Borewell submersible pump motor from borewell depths upto 860ft including disconnecting pipe line, flat cable, dismantling the defective motor pump set , shifting all dismantled items from site to AAI Stores as per directions of Engineer Incharge	2	Job	65000.00	130000.00

Handwritten signature/initials in blue ink.

58	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required. 90mm dia (OD-90 mm & ID-76 mm nominal)	1400	Mtr	210.00	294000.00
59	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL/DWC pipe as required. Above 95sq.mm and upto 185sq.Mm	1400	Mtr	120.00	168000.00
60	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 3½ X185sq. mm	2	Each	7500.00	15000.00
61	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 3½ X35sq. mm	4	Each	1800.00	7200.00
62	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2	Set	14500.00	29000.00
63	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit / submain wiring / cable as required.	400	Mtr	34.00	13600.00
64	Providing and laying earth connection from earth electrode with 6 SWG dia GI wire in 15 mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	15	Mtr	35.00	525.00
65	Supply of nylon rope of high strength, shock resistant, having resistance to abrasion and deterioration due to UV light, minimal elongation, unaffected by hard water of size 20 mm, suitable for binding the borewell motor pump set.	550	Mtr	25.00	13750.00
66	Supply of Class-B Woltmann type water meter , size- 50mm, Cast Iron Body, flanged type, suitable for water temperature upto 50 degree Celsius, capable of withstanding pressure upto 16 bar, designed for measuring bulk flows of cold potable water complete as required. Make:- Kranti 50 mm Kflow Cast Iron Body or equivalent	2	Each	24000.00	48000.00
67	Installation of water meter in the existing metal pipe line at the delivery side of the pumping system with adequate support, flanges, MTA, bend, minor welding cutting works as per requirement at site complete as per instructions of Engineer-in-Charge.	2	Job	6000.00	12000.00

Handwritten signature and date
8/3/24

68	SITC of cubicle type totally enclosed free standing, dust free, damp and water proof outdoor Feeder pillar fabricated out of 2mm thick CRCA sheet duly powder coated and including supply & fixing of Star Delta starter suitable for 20 HP Borewell submersible pump with required contactors , start & stop push buttons, Over Load relay, single phase preventer, Phase reversal & Phase imbalance Protection , dry run protection (suitable arrangement shall be made installed at the required depth decided by AAI such that such that dry run protection shall be operated whenever water level falls below the aspecific level) , Ammeter with selector switch, LED type ON & OFF Indications, LED type basic Volatge meter and Ammeter of class 1 accuracy having inbuilt selector switch suitable for 3 phase, digital hour meter for showing pump running hours , Timers , Selection switch ,wiring with suitable size wires/cables etc complete as required	2	Job	48000.00	96000.00
69	Design, Fabrication, Supply, Installation, Testing and Commissioning of double door, outdoor LT power supply Feeder Pillar of IP 54 protection minimum, made out of 2mm CRCA sheet, 3 mm thick for gland plates, dust & vermin proof, cubical type, compartmentalized, with aluminium bus bar having 200 amps current rating (same rating for phase and neutral), suitable for operation at 415V, 3phase, 4 wire, 50Hz, AC system complete with accessories, making connections and interconnections, terminal blocks for termination of cables with bottom entry as per site conditions, locking arrangement, painting, etc. including the following accessories as per technical specifications and drawing as approved by engineer-in- charge . Incomer: 125 Amps, 4 Pole MCCB, >=20 kA breaking capacity, TMR type, Ics = 100% Icu, spreader bars, rotary handle, LED indications for RYB, ON, OFF,TRIP indications, suitable resin cast/wire wound CT's with digital multifunction meter - 01 Nos. Outgoings: 1) 63 Amps, 4 Pole MCCB, >=20 kA breaking capacity, TMR type, Ics = 100% Icu, spreader bars, rotary handle, LED type ON,OFF & TRIP Indications -03 Nos	1	Job	65000.00	65000.00
Total					7391795.00
Seventy Three Lakh Ninety One Thousand Seven Hundred & Ninety Five Only					


06/03/2024
Senior Manager (Engg)