



भारतीय विमानपत्तन प्राधिकरण,
Airports Authority of India
सिविल एन्क्लेव, बरेली. 243122 (उ. प्र.)
Civil Enclave, Bareilly-243122 (UP)

संख्या:- भाविप्रा/बीएलवाई/एजीएम (ई-ई)/एसआईटीसी-एज लाइट्स / का0आ0-01/2024-25/

दिनांक :- 22.04.2024

Ref:- AAI/BLY/AGM(E-E)/SITC- Edge Lights/W.O-01/2024-25/375-382

Date :- 22.04.2024

(Through Speed Post/Email)

सेवा में /To,

मेसर्स मनीष इलेक्ट्रिकल्स,
कल्पना नगर, 7 नं. चौराहा के पास,
मोरार, ग्वालियर - 474 006

M/s. Manish Electricals,
Kalpana Nagar, Near 7 No. Chouraha
Morar, Gwalior - 474 006

कार्य का नाम :- "वायडेनिंग एंड स्ट्रेंथेनिंग ऑफ एक्जिस्टिंग एप्रन एंड टैक्सी एट बरेली एयरपोर्ट।

सब हेड:- प्रोविजन ऑफ टैक्सीवे ऐज लाइटिंग एंड सायनेजेस"।

Name of Work: - "Widening and Strengthening of Existing apron and taxi at Bareilly Airport. SH- Provision of Taxiway Edge Lighting and Signages."

संदर्भ :- 1) आपका टेंडर आईडी0 (2024_AAI_188756_1) खोला गया दिनांक - 12.04.2024

Your tender ID. - (2024_AAI_188756_1) opened on dated - 12.04.2024

महोदय / Sir,

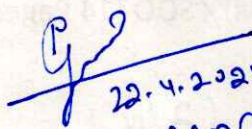
- उपरोक्त कार्य हेतु आपका आफर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताये गये मद मूल्यों पर आपका ऑफर कुल रुपये 62,27,579/- (रुपये बासठ लाख सत्ताईस हजार पाँच सौ उनासी केवल) (जी0एस0टी0 अतिरिक्त) है। जोकि टैण्डर की अनुमानित/न्यायसंगत राशि रु0 61,10,411/- से 1.92 प्रतिशत ज्यादा है।

Your offer for the work mentioned above work is hereby accepted on behalf of the Chairman, Airports Authority of India at the item rates quoted by you totaling to Rs **62,27,579/-** (Rupees. Sixty Two Lakhs Twenty Seven Thousand Five Hundred Seventy Nine Only) (GST Extra). Which is 1.92% above the justified cost put to tender of Rs. 61,10,411/-.

- सहा0 महा0 प्रबन्धक (इंजी-विद्युत) भाविप्रा, सिविल एन्क्लेव, बरेली कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप करारनामों पर हस्ताक्षर करने के लिए दिनांक 05.05.2024 तक अधोहस्ताक्षरकर्ता के कार्यालय में उपस्थित हो तथा करारनामों को पूरा करें। ठेके का करारनामा 100/-रुपये के नोनज्यूडिशियल स्टाम्प पेपर पर निष्पादित किया जाएगा, तथा स्टाम्प पेपर का खर्च आपके द्वारा वहन किया जाएगा।

Asstt. General Manager Engg. (Elect.), AAI, Civil Enclave, Bareilly - 243122, shall be the Engineer in charge of the work. You are requested to attend the office of undersigned by 05.05.2024 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- (Rupees Hundred only) and the cost of the stamp paper shall be borne by you.

- आपके इ-टेंडर के साथ प्राप्त धरोहर राशि रुपये 1,18,721/- ठेके के सामान्य भारों पर दी गयी भात 1(A) के अनुसार जमानत राशि में परिवर्तित कर दी जायेगी। कृपया इस पत्र के जारी होने के 15 दिनों के


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भीतर सिक्क्यूरिटी डिपोजिट के लिए रुपये 6,22,758/- (रु. छह लाख बाईस हजार सात सौ अठ्ठावन मात्र) जमा कर दे, अन्यथा ठेके के करारनामे में दी शर्त के अनुसार इतनी राशि आपके रनिंग बिलों से काट ली जाएगी।

The earnest money amount of Rs. 1,18,721/- received along with your e-tender will be treated and converted as part of Security Deposit as per GCC Clause 1(A) of the contract document. Please deposit Rs 6,22,758/- (Rupees Six Lakh Twenty Two Thousand Seven Hundred Fifty Eight Only) towards security deposit within 15 days from the date of issue of this letter, failing which the same will be deducted from your running bills as per condition of the contract.

4. आपसे निवेदन है कि आप केन्द्रीय और राज्य सरकारों के 1970 के अधिनियम अनुबंध श्रम नियम तथा 1971 के केन्द्रीय नियम (रेगुलेशन एवं अबोलिशन) एवं न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अब तक के संशोधन के साथ अनुपालन करें)।

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 and minimum wages act and rules thereof Central and State Governments with upto date amendments.

5. आपको निर्देश दिया जाता है कि आप तुरंत प्रबन्धक (इंजी-विधुत), भाविप्रा, सिविल एन्क्लेव, बरेली से मिलें वह आपको साईट सौंपने की व्यवस्था करेंगे। कृपया नोट कर ले कि काम करने का समय चार महीने है जोकि दिनांक 01.05.2024 से गिना जाएगा।

You are also directed to contact Manager Engg. (E), AAI, Civil Enclave, Bareilly immediately who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work shall be four months which shall be reckoned from dated 01.05.2024.

6. इस ठेके के संबंध में आगे का कोई भी पत्राचार सहा0 महाप्रबन्धक (इंजी-विधुत), भाविप्रा, सिविल एन्क्लेव, बरेली, . 243122 उत्तर प्रदेश के पते पर किया जाए।

Any further correspondence in connection with the contract should normally be addressed to the Asstt. Gen. Manager Engg. (E), AAI, Civil Enclave, Bareilly, - 243122, U.P.

7. उक्त कार्य का त्रुटि दायित्व अवधि 12 (बारह) महीने होगी।

The defects liability period of the contract is 12 (Twelve) months.

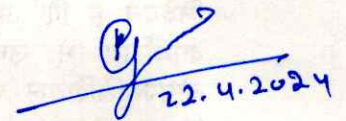
8. कृपया पावती भेजे।

Please acknowledge the receipts

नोट : हिंदी या अंग्रेजी संस्करण में अंतर या अस्पष्टता के मामले में अंग्रेजी संस्करण मान्य होगा

Note : In case of difference or amiguity in Hindi or English Version, the English version will Prevail.

भवदीय / Yours Faithfully,



सहायक महाप्रबन्धक (अभि.-विधुत),
Asstt. General Manager Engg.(Elect.),

कृते तथा ओर से अध्यक्ष,

For and on behalf of Chairman,

भारतीय विमानपत्तन प्राधिकरण

Airports Authority of India.

सिविल एन्क्लेव बरेली-243122

Civil Enclave, Bareilly -24312

संलग्न / Enclosed – शेडयूल ऑफ क्वान्टिटी (14 पेज) / SOQ (14 Pages) Schedule "A"

जारी / Contd...

SCHEDULE OF QUANTITY

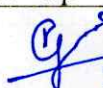
Name Of Work:- "Widening and Strengthening of Existing Apron and Taxi at Bareilly Airport. SH- Provision of Taxiway Edge Lighting and Signages."

Item No	Description	Unit	Qty.	Rate (without GST)	Amount
1	2	3	4	5	6
1	Supply of elevated type Omni- directional, medium intensity LED Taxiway Edge Light fitting suitable for Taxiway, Apron Edge Lights, Turning Pad Lights for operation at 2.8 to 6.6 Amps, series circuit supply, complete with Omni-directional Blue lens, Lens clamping mechanism, breakable coupling, gasket, two pin secondary leads, base plate with 06 No's, M - 10 stainless steel bolts and other accessories including White LED lamp not more then 10 watt ,with an integrated encapsulated electronic module as required , suitable for installation on existing CI transformer housing box, etc. complete as required. Conforming the manufactures who meet FAA/ICAO/DGCA-CAR requirement. Omni-directional Blue	Each	90	4000.00	360000.00
2	Supply of FAA/ICAO/DGCA-CAR certified LED type Inset Omni-directional fitting for aviation visual aid at taxiway line suitable for curved section complete with LED, shallow base & matching body, single plug, inner & outer cover complete with other accessories, ready for site installation suitable for 6.6A etc. as required. Omni- directional Blue	Each	10	68000.00	680000.00
3	Supply of FAA/ICAO/DGCA-CAR certified LED type Inset Uni-directional Stop Bar fitting for aviation visual aid at Rapid taxiway line suitable for curved section complete with LED, shallow base & matching body, single plug, inner & outer cover complete with other accessories, ready for site installation suitable for 6.6A etc. as required. Uni-directional Stop Bar Fitting Red.	Each	11	74000.00	814000.00
4	Supply of Indoor type air cooled constant current regulator of micro processor controlled, thyristor type suitable for operation on 230/415 volts, 50Hz input AC supply with 6.6A output having 5 steps variation of current output and able to communicate with local & remote operational controlled system (RC-Desk/ALCMS), with digital output ammeter (0-10A), overcurrent, overvoltage, open circuit and earth fault protection and earth leakage meter, two stage earth leakage detector, positive back indication equipment's, individual lamp control and monitoring system module, hours run counter,	Each	1	180000.00	180000.00

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	LCD display, complete as required for the following rating and confirm to specifications enclosed, should have provision of MAFI compitability. 2.5 kw				
5	Supply of Indoor type air cooled constant current regulator of micro processor controlled, thristor type suitable for operation on 230/415 volts, 50Hz input AC supply with 6.6A output having 5 steps variation of current output and able to communicate with local & remote operational controlled system (RC-Desk/ALCMS), with digital output ammeter (0-10A), overcurrent, overvoltage, open circuit and earth fault protection and earth leakage meter, two stage earth leakage detector, positive back indication equipment's, individual lamp control and monitoring system module, hours run counter, LCD display, complete as required for the following rating and confirm to specifications enclosed, should have provision of MAFI compitability. 4 kw	Each	2	190000.00	380000.00
6	Supply of 5 kV Type C without metallic screen, Cross-linked polyethylene 6 Sqmm unshielded round stranded bare copper class 2 with Polyethylene (PE) outer sheath cable as required as per the technical specification. UN-SHIELDED PRIMARY CABLE 1CX 6SQ MM	Metre	7000	90.00	630000.00
7	Supply of 2X4 Sq.mm secondary lead made out of multi stranded copper conductor, EPR insulated PCP sheathed, anti termite & anti rodent treated 600V grade cable as specified in particular specification and as required.	Metre	200	210.00	42000.00
8	Supply of 6 Sqmm Receptacle of type I, class B connector & suitable field attachment with 5 KV grade XLPE insulated PE sheathed single core screened copper conductor cable as required.	Nos	220	425.00	93500.00
9	Supply of 5 KV, 6.6 A/6.6 A, 50 Hz rubber encapsulated isolating transformer suitable for individual series lamps airport lighting circuits. The transformer shall be designed to be water proof and suitable for direct burial in the earth or installation in a base, conforming to IS:12290 (latest edition) with up to amendments complete as per specifications attached. 15 watts, 6.6A/6.6A	Each	110	3000.00	330000.00
10	Supply of following size of 1.1KV grade multicore stranded aluminium conductor XLPE insulated & PVC sheathed armoured cable (FRLS Type) as per IS: 7098 (Part-1) 1988 complete as required & as per enclosed specification. (4C x 10 Sqmm)	Metre	200	270.00	54000.00
11	Supply of 3.5 core 95 sq.mm size heavy duty XLPE insulated PVC sheathed aluminium conductor armoured power cable of 1.1KV grade confirming to IS 7098, Part-I 1988 with up to date	Metre	100	535.00	53500.00

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	amendments and confirm to particular specifications enclosed in the tender.				
12	Supply of CI Base plate of size 10 mm thick and outside dia 330 mm, surface suitable to receive a light fitting-base plate on the top and having a clear opening of 220 mm hole centre and 6 nos of holes tapped to receive M-10 stainless steel bolts as per drawing as required.	Each	10	900.00	9000.00
13	Supply of following dia ISI mark HDPE pipe of PN6 & PE80 grade with accessories etc. and as per relevant IS amended upto date complete as per site requirement. 50 mm dia {OD}	Mtr.	2200	76.00	167200.00
14	Supply, installation, testing and commissioning of LED Guidance Sign Board of various sizes as per ICAO Annex.14 Vol.I (legends as approved by Engineer-in-Charge) made out of anodized 2mm thick Aluminum frame with suitable angle support with 1.5MM thick (minimum) Al. back cover, 4 MM thick polycarbonate sheet with glare free face, the letter & symbol should be screen printed on inside of sign face made of self adhesive film of 3M applied on the inside face with required coloring, mandatory/information guidance suitable arrangement shall be made for water tightness & locking arrangement, signboard shall be uniformly internally illuminated with LED lights with DC converter to achieve illumination level operated on input source 2.5A to 6.6A constant current without flickering including isolating transformer, supporting frangible legs & frame etc. complete as required i/c signages installation in 1:2:4 grade cement concrete of 400 x 400 x500mm (for legs) and a total base of 150mm thick which extends all around the board with the distance of 1000mm (front, back and both the sides). The concrete base and leg foundation should be on the same level and 20-25mm above the ground level complete as required.	Sq. Mtr.	13	33000.00	429000.00
15	Installation, testing and commissioning of following Inset fittings with core drilling, aligning & setting including providing sealing material & installation of isolating transformers, crimping / joining of plug & receptacles and moulding the leads, connections etc. as required.	Job	20	7000.00	140000.00
16	Installation, testing and commissioning of elevated taxiway fittings aligning, on the existing transformer housing box i/c. installation of transformer, lens and other accessories, alignment, levelling etc. as required, sealing material, installation of isolating transformer etc. as required.	Job	90	300.00	27000.00
17	Installation, testing & commissioning of 2.5 / 4 KW microprocessor controlled CCRs including providing earth connection with GI strip of size	Job	3	10000.00	30000.00

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	25mm x 5mm, all necessary arrangement, end termination with plug and receptacle etc. for commissioning of CCR etc. as required.				
18	Making field connections of 5 KV grade 6 Sq.mm PVC / XLPE insulated PVC sheathed copper conductor single core cable with 5 KV grade plug/receptacle suitable for field attachment with HT tape complete as required.	Nos.	220	180.00	39600.00
19	Installation, Testing and Commissioning of 5 KV, 6.6 A/6.6 A, 50 Hz rubber encapsulated isolating transformer suitable for individual series lamps airport lighting circuits including HT tape etc complete as required.	Nos.	110	250.00	27500.00
20	15/45/100 watts, 6.6A/6.6A Laying of one no. PVC insulated & PVC sheathed AFL cable of 5 KV grade size upto 25 sqmm in the existing RCC/ METAL/HDPE/Open Trench pipe as required.	Metre	4000	15.00	60000.00
21	Installation of Transformer housing boxes by excavation of earth upto depth of 525 mm with a base concrete of 1:3:6 of size 630x630x100 mm thick, all round concrete of 1:2:4, 150mm thick, the top sloped with 1:2:4 cement concrete including providing and fixing 250 mm long 15mm dia "B" class GI pipe with check nut for drainage of water complete as required as per the technical specification. (wherever the transformers boxes are to be installed in a line, the same has to be aligned in such a way that the centre fall in a straight line) etc. complete as required.	Each	20	2800.00	56000.00
22	Installation of CI Base plate (complete with all accessories) of size 10 mm thick and outside dia 330mm complete with all accessories as required.	Each	10	300.00	3000.00
23	Laying of 50 mm dia HDPE pipe to connect the consecutive existing Transformer Housing Boxes at a suitable depth i/c providing the socket, lock/check nut/ other suitable accessories at both sides of Transformer housing wall to fix pipe. The laying shall be in hard surface/soft surface with standard industries practice with all safety and precautions including getting out the excavated materials, returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposit layer by ramming & watering etc. making good the same & disposal of unusable material etc. as required as per direction of Engineer-in-charge.	Mtr.	1000	170.00	170000.00
24	Kerf cutting with machine on taxiway of Bitumin surface of suitable depth and width upto 2/4/6/8 nos of 1x4sqmm secondary cable etc. complete as required (without refilling by suitable sealing material).	Mtr.	75	700.00	52500.00
25	Laying 2/4/6/8 nos of 4sqmm secondary leads in the existing taxiway surface trench, filling up polysulphide compound and baker rod foam etc.	Mtr.	75	50.00	3750.00


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	complete as required (Including Material cost).				
26	Supply of 1.5 TR AC 5 Star Rating Inverter type Split Air-Conditioner with stabliser free operation on 230 V (Voltage range 140 V to 270 V)AC supply complete with refrigerant ,plug top ,interconnection between indoor & outdoor unit with suitable size copper flexible wire & refrigerant pipeing up to 3 Mtrs & Suitable length drain pipe etc. with copper condenser & evaporator coils as per approved make list complete as required.	Job	2	40000.00	80000.00
27	Supply of 10 W LED 6500 K Wall mounted batten extruded aluminium heat sink provided for efficient heat dissipation & integrated electronic driver complete with all necessary accessories & lamp as required. (Havells, Code no. LheXACP7in1W010 or equivalent)	Each	6	900.00	5400.00
28	Installation, testing & commissioning of 1.5 TR AC 5 Star Rating Split Air-Conditioner suitable for operation on 230 V AC supply complete with refrigerant piping, piping insulation, cabling work up to 3.0 Mtrs & fixing of outdoor unit in wall with suitable size MS stand etc. complete as required.	Job	2	3000.00	6000.00
29	Supply & fixing of extra refrigerant copper tubing of suitable size as per recommendation of OEM for both suction and discharge along with nitrile rubber insulation for tube covering suitable for 1.5 TR / 2.0 TR Air conditioner laying/clamping on surface, chiselling & making good of wall etc connection complete as per requirement of site & as instructed by EIC.	Mtrs	6	700.00	4200.00
30	Supply & fixing of Extra draing piping of suitable size as per recommendation of OEM required beyond 3 Mtrs. of piping suitable for 1.5 TR / 2.0 TR Air conditioner laying/clamping on surface, chiselling & making good of wall etc connection complete as per requirement of site & as instructed by EIC.	Mtr.	6	125.00	750.00
31	Supply and laying 80 mm dia medium class GI pipe direct in ground including excavation existing pavement size of 75cm (depth), and refilling etc as required.	Mtr.	18	1200.00	21600.00
32	Earthing with GI earth pipe 4.5 m long and 40mm dia, accessories and providing masonary enclosure with cover plate on the top having locking arrangement and watering pipe, complete with charcoal and salt etc. as required.	Nos	10	7500.00	75000.00
33	Providing & laying of 6 SWG dia GI wire in the existing pipe/duct/ HDPE etc. i/c connection/termination with GI thimble etc. complete as required.	Metre	4500	24.00	108000.00


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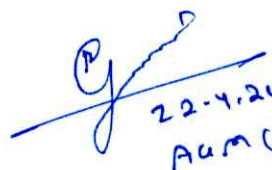
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34	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2	10000.00	20000.00
35	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 etc. as required. (Upto 35 sq. mm)	Metre	100	25.00	2500.00
36	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required Above 35 sq. mm and upto 95 sq. mm	Metre	30	350.00	10500.00
37	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 etc. as required. Above 35 sq. mm and upto 95 sq. mm	Metre	70	30.00	2100.00
38	Supplying and making end termination with brass compression gland and aluminium lugs for 4 X 10 sq. mm (25mm) size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	Each	4	500.00	2000.00
39	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5 X 95 sq. mm (25mm) size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	Each	2	700.00	1400.00
40	Supplying and fixing 25 amps rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissionng etc. as required.	Each	1	4700.00	4700.00


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41	Supplying and fixing 5 amps to 32 amps rating, 240 /415 volts, "C" curve, miniature circuit breaker suitable for inductive load of single poles in the existing MCB DB complete with connections, testing and comissioning etc. as required.	Each	4	220.00	880.00
42	Supplying and fixing 6 way (2 + 4 way), double door, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator).	Each	1	6000.00	6000.00
43	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (Group -C).	Point	2	1200.00	2400.00
44	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. (Group C)	Point	2	1200.00	2400.00
45	Supplying and fixing metal box of 180mm x 100mm x 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type swtich connection, painting etc. as required.	Each	1	400.00	400.00
46	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.				
46.1	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	18	250.00	4500.00
46.2	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Mtr.	30	350.00	10500.00


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47	Supply, Installation, Testing & Commissioning of microprocessor controlled True online double conversion, parallel redundant mode 3 phase 415V output UPS consisting of Following: i) UPS module with integrated 100% rectifier + inverter, Battery circuit breaker for each UPS module in CRCA housing with all required fixing accessories & hardware. Galvanic isolation transformer K-rated, at the inverter output of Each UPS module. IN-bypass, interconnecting copper cabling (DC cabling) between UPS, Active filter, Battery breaker & Batteries of required length and size. ii) Sealed maintenance free batteries for 2X7.5 KVA UPS with 30 min backup time on each UPS module with interconnectors, rack and accessories. Rack shall have shrods for safety from live battery terminals RAMLBS kit for 2N configuration. Rating of the UPS as follows: 2X7.5 KVA parallel redundant UPS operating in parallel redundant configuration (Cost of UPS, Batteries, Terminal connections & wires, Rack for batteries & mounting arrangement etc. all inclusive)	Set.	1	700000.00	700000.00
48	MV Panel Design, manufacture, supply, installation, testing and commissioning of following cubical type indoor panel, made of 2 mm thick CRCA sheet, base channel, doors & partitions complete with, moulded case circuit breakers, meters, indicating lamps, current transformer etc. complete in all respects, insulated bus bars with heat shrinkable PVC sleeve in suitable bus chambers, interconnection, bus bar shrouds at joints, wiring, name plate, danger plate, earth bus etc. & comprising of compartments with hinged door for each feeder & its accessories, cable alley with hinged doors, bus chamber with bolted door etc. The panel shall be dust & vermin proof construction with rubber gasket and powder coated. The panel shall be completely modular and compartmentalised with Form 3 B Separation. The panel shall be free standing floor mounted type / wall mounted type as per site requirement. i. Incomer one (1) Nos. 63A, 25 kA, Four Pole, MCCB with variable thermal magnetic release for short circuit, over current and earth fault. Incomer shall be provided with the following.. One (1) No. Multi Function Meter with one set (3 Nos.) of CTs of ratio 63/5A Class 1.0, 15VA. One set (3 nos.) phase indication lamps with control	Set	1	100000.00	100000.00

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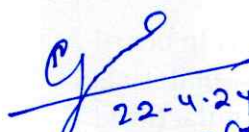
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	MCB. One set (3 nos.) ON/OFF/TRIP indication lamp ii. Busbar : 100A , 25 kA TP + N Al. Busbar insulated with heat shrinkable sleeves and shall be colour coded. The neutral busbar shall be 100% rated. Separate earth busbar of 25 x 3 mm of GI shall be provided on the rear bottom of the panel. iii. Outgoings : Three (3) Nos. 32A, 25 kA, TP + N MCCB with continuous variable thermal magnetic release for short circuit, over current protection. Two (2) Nos. 16 A, 25 kA, TP + N MCCB with variable thermal magnetic release for short circuit, over current protection . Two (2) Nos. 16 A, 25 kA 2 pole MCB				
49	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	cum	0.55	750.00	412.50
50	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	0.13	750.00	97.50
51	Repairing of existing aluminium door and windows I/c opening the section and refixing the section as per the existing as per direction of Engineer-in-charge.	each	2.00	950.00	1900.00
52	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	0.68	500.00	340.00
53	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. All kinds of soil	sqm	19.74	100.00	1974.00
54	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	6.26	2800.00	17528.00

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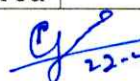
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55	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.56	2600.00	4056.00
56	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	sqm	3.48	680.00	2366.40
57	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	8.98	7000.00	62860.00
58	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	6.21	3200.00	19872.00
59	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	each	2.00	270.00	540.00
60	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete : 50x10 mm	each	2.00	420.00	840.00
61	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete : 250x16 mm	each	2.00	580.00	1160.00
62	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete: 100x63x4 mm	each	6.00	420.00	2520.00
63	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	2.00	380.00	760.00
64	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868)transparent or dyed to required colour and shade with necessary screws etc. complete. Twin rubber stopper	each	2.00	110.00	220.00

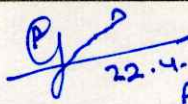

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65	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm) with necessary accessories and screws etc. complete.	each	2.00	1500.00	3000.00
66	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier,wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Double charge vitrified tile polished finish of size. Size of Tile 600 x 600 mm	sqm	13.13	490.00	6433.70
67	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all Tsections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured	sqm	11.84	510.00	6038.40

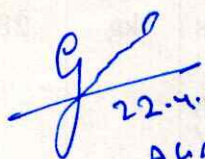
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	through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.				
68	12 mm cement plaster of mix : 1:6 (1 cement: 4 coarse sand)	sqm	49.08	105.00	5153.40
69	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)	sqm	44.30	110.00	4873.00
70	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour: New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre.	cum	42.48	45.00	1911.60
71	Finishing walls with Acrylic Smooth exterior paint of required shade: New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90litre/10 sqm)	sqm	38.09	65.00	2475.85
72	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	200.00	160.00	32000.00
73	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	sqm	20.00	70.00	1400.00
74	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion. Powder coated	kg	28.35	590.00	16726.50

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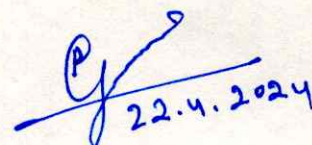
	aluminium (minimum thickness of powder coating 50 micron)				
75	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	28.35	510.00	14458.50
76	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides.	sqm	1.89	1780.00	3364.20
77	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	sqm	0.50	1780.00	890.00


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78	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	13.48	640.00	8627.20
	Total (Rs. without GST)				62,27,578.75
	Say Total				62,27,579.00

(Rupees Sixty Two Lakh Twenty Seven Thousand Five Hundred Seventy Nine Only)


22.4.2024

Asst. General Manager (E-E)
AAI, Civil Enclave, Bareilly

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