



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

Dated: 31.08.2022.

Ref.No. AAI/ASR/Engg(E)/W-05/2022-23/441

सेवा में

मेसर्स पावर एंड इंस्ट्रुमेंटेशन गुजरात लिमिटेड,
बी-1104, संकल्प आइकॉनिक टॉवर,
ऑपोजिट विक्रम नगर,
इस्कॉन टेम्पल क्रॉस रोड,
एसजी हाईवे, अहमदाबाद-380058
गुजरात, भारत ।

To

M/s Power and Instrumentation Guj. Ltd,
B-1104, Sankalp Iconic Tower,
Opp. Vikram Nagar,
Iscon Temple Cross Road,
S.G. Highway, Ahmedabad-380058,
Gujarat, India.

कार्य का नाम: ऑपरेशनल क्षेत्र और सब-स्टेशन में विद्युत आपूर्ति में वृद्धि।

Name of work: Augmentation of power supply in Operational Area and Sub-station.

दिनांक 05.08.2022 को खोला गया आपका टेंडर।

Your Tender opened on 05.08.2022.

Ref. No.

Tender ID: 2022_AAI_120087_1

Sir,

1. ऊपर उल्लिखित कार्य हेतु आपका टेंडर कम ऑक्शन के साथ टेंडर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा दिये गए मद मूल्यों पर आपकी टेंडर राशि कुल ₹ 1,29,42,850/- (जी.एस.टी.रहित), जोकि टेंडर के उचित मूल्य ₹ 2,46,18,164/- (जी.एस.टी. रहित), से 47.43% कम है।

Your tender cum auction for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India at the item rates quoted by you totaling to ₹ 1,29,42,850/- (Rupees One Crore Twenty Nine Lakh Forty Two Thousand Eight Hundred Fifty only) excluding GST which is 47.43% below the Justified cost put to tender of ₹ 2,46,18,164/- excluding GST.

2. वरिष्ठ प्रबंधक (इंजी-विद्युत) अमृतसर विमानपत्तन कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप दिनांक 15.09.2022 तक वरिष्ठ प्रबंधक (इंजी-विद्युत), अमृतसर विमानपत्तन के कार्यालय में उपस्थित हों या आपकी ओर से एक विश्वसनीय प्रतिनिधि प्रतिनियुक्त करें जो करारनामों पर हस्ताक्षर के लिए अधिकृत हो तथा करारनामों को पूरा करें। ठेके का करारनामा ₹ 100/- नोन्यूडिशियल स्टेम्प पेपर पर निष्पादित किया जाएगा, तथा पेपर का खर्च आपके द्वारा उठाया जाएगा।

Sr. Manager (E-E), AAI, SGRDJI Airport, Amritsar shall be the Engineer-In-Charge of the work. You are requested to attend the office of Sr. Manager (E-E), AAI, SGRDJI Airport, Amritsar by 15.09.2022 to sign and complete the contract agreement. The contract

कार्यालय: विमानपत्तन निदेशक, श्री गुरु राम दास जी अंतराष्ट्रीय हवाई अड्डा, अमृतसर -143101, दूरभाष: 0183-2214365,

फैक्स : 0183-2214358

O/o. The Airport Director, Sri Guru Ram Dass Jee International Airport, Amritsar-143101, Phone: 0183-2214365,

Fax: 0183-2214358

Email: asr_elect@aai.aero, www.airportsindia.org.in or www.aai.aero



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agreement shall be executed on a non-judicial stamp paper of value ₹ 100/- (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.

3. आपके टेंडर के साथ प्राप्त धरोहर राशि ₹ 4,90,919/- आपको जमानत राशि से समायोजित के उपरांत सी. पी. पी. के माध्यम से वापिस कर दी जाएगी। कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर जमानत राशि ₹ 12,94,285/- ठेके के दस्तावेज के अनुसार जमा कर दे , अन्यथा ठेके के करारनामे में पृष्ठ 16 पर दी गई धारा - 1A के अनुसार इतनी ही राशि आपके रनिंग बिलों से काट ली जाएगी।

The Earnest Money amount of Rs.4,90,919 /- (Rupees Four Lakh Ninety Thousand Nine Hundred Nineteen only) received through online along with your tender on CPP Portal, will be refunded through CPP Portal after adjusting the same amount as a Security Deposit from running bills. Please deposit Rs. 12,94,285/- (Rupees Twelve Lakh Ninety Four Thousand Two Hundred Eighty Five only) towards security deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from your running bills as per Clause no. 1A on page no. 16.

4. आपसे निवेदन है कि आप केन्द्रीय और राज्य सरकारों के 1970 के अधिनियम अनुबंध श्रम नियम तथा 1971 केन्द्रीय नियम अनुबंध श्रम नियम (नियमन तथा उन्मूलन एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन करें।

You are requested to comply with the provisions 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.

5. श्रम के विभिन्न विधानों के अनुसार संबंधित अधिकारियों से लाइसेंस/ अनुमति लेने व पालन करने के लिए एकमात्र दायित्व ठेकेदार (करार फर्म/ कंपनी सहित) का होगा जिसमें संविदा श्रम (विनियमन एवं उन्मूलन) अधिनियम, 1970 के अंतर्गत लेबर लाइसेंस लेना भी शामिल है।

It shall be the sole liability of the contractor (including the contracting firm/ company) to obtain and to abide by all necessary licenses/ permissions from the authorities concerned as provided under the various labour legislations including the labour licence obtained as per the provisions of the Contract Labour (Regulation & Abolition) Act, 1970.

6. ठेकेदार को उसके द्वारा तैनात कर्मियों का नियमित और प्रभावी पर्यवेक्षण और नियंत्रण सुनिश्चित करना होगा और संविदात्मक दायित्वों के पालन के लिए उपयुक्त दिशा देना होगा।

The contractor shall ensure regular and effective supervision and control of the personnel deployed by him and give suitable direction for undertaking the contractual obligations.

7. आपको निर्देश दिया जाता है कि आप तुरंत सहायक प्रबंधक (इंजी-विद्युत), अमृतसर विमानपत्तन, से मिलें वह आपको साइट सौंपने की व्यवस्था करेंगे।

You are also directed to contact Asstt. Manager (E-E), Amritsar Airport immediately who will arrange to hand over the site to you.

कार्यालय: विमानपत्तन निदेशक, श्री गुरु राम दास जी अंतर्राष्ट्रीय हवाई अड्डा, अमृतसर -143101, दूरभाष:0183-2214365,

फैक्स : 0183-2214358

O/o. The Airport Director, Sri Guru Ram Dass Jee International Airport, Amritsar-143101, Phone: 0183-2214365,
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8. कृपया नोट कर ले कि कार्य करने का अनुमानित समय 05 माह है जोकि 10.09.2022 से गिना जाएगा।

Please note that the time allowed for carrying out the work shall be 05 Months and same shall be reckoned from 10.09.2022.

9. इस कार्य की दोष दायित्व अवधि 12 महीने के लिए होगी जो इस कार्य के पूरा होने की दर्ज की गई तारीख से मानी जाएगी।

The Defect liability period for the work shall be 12 months and the same shall be reckoned from the recorded date of Completion.

10. इस ठेके के संबंध में आगे का कोई भी पत्राचार वरिष्ठ प्रबंधक (अभि-विद्युत), भा.वि.प्रा, श्री गुरु राम दास जी अंतर्राष्ट्रीय हवाई अड्डा, अमृतसर के पते पर किया जाए।

Any further correspondence in connection with the contract should normally be addressed to Sr. Manager (E-E), AAI, SGRDJI Airport, Amritsar.

11. कृपया पावती भेजें और स्वीकृति के टोकन के रूप में संलग्न इस पत्र की दूसरी प्रति हस्ताक्षर करके वापस अधोहस्ताक्षरी को भेजें।

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.

31/8/22

वरिष्ठ प्रबंधक (अभि0वि)
कृते एवं की ओर से अध्यक्ष,
भारतीय विमानपत्तन प्राधिकरण

कार्यालय: विमानपत्तन निदेशक, श्री गुरु राम दास जी अंतर्राष्ट्रीय हवाई अड्डा, अमृतसर -143101, दूरभाष:0183-2214365,

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Work Order Schedule

Name of work : Augmentation of power supply in Operational Area and Sub-station.

Name of work : Augmentation of power supply in Operational Area and Sub-station.		Description of Items		Unit	Qty.	Rate	Amount
Sr. No.		Description of Items		Unit	Qty.	Rate	Amount
SH-I		Supply & laying of LT cables along with feeder pillars in Operational Area/NTB/OPH					
1		Supply of 1.1 kv grade XLPE insulated and PVC sheathed aluminium conductor armoured cable, conforming to IS:7098 (Part-I)-1988 with upto date amendments of approved make as required.		mtr	400	445.66	178263.89
1.1		3.5 core x 120 sqmm		mtr	3500	510.48	1786690.40
1.2		3.5 core x 150 sqmm		mtr	1500	672.54	1008811.59
1.3		3.5 core x 185 sqmm		mtr	2100	1033.12	2169552.63
1.4		3.5 core x 300 sqmm		mtr	500	1296.46	648232.34
1.5		3.5 core x 400 sqmm					
2		Supplying and laying of DWG HDPE pipe (ISI marked) of following sizes 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.					
2.1		90 mm dia (OD-90 mm & ID-76 mm nominal)		mtr	326	186.37	60755.58
2.2		120 mm dia (OD-120 mm & ID-103 mm nominal)		mtr	4083	202.57	827103.96
2.3		160 mm dia (OD-160 mm & ID-135 mm nominal)		mtr	2575	263.34	678111.80
2.4		200 mm dia (OD-200 mm & ID-175 mm nominal)		mtr	258	344.37	88848.35
3		Providing, laying and fixing G.I. pipe (medium class) of following diameters by proper supports for drain/naala crossing complete in as respect as required.					
3.1		100 mm dia		mtr	70	1053.38	73736.43
3.2		150 mm dia		mtr	108	1559.81	168459.38
4		Supply & laying of GI pipe (medium class) of following diameters in hard soil / surface concrete upto a depth of 40 cms. including excavation and refilling it with 1:2.4 CC to make the surface good etc. as required & as per the direction of Engineer-in-charge.					
4.1		100 mm dia		mtr	59	1539.55	90833.56
4.2		150 mm dia		mtr	64	1985.21	127053.54
5		Supply & Laying of HDPE pipe of following outer/inner dia having 6 KG/cm2 pressure rating through trenchless technology, direct in ground upto the depth of 3 meters including splicing of pipe of size complete as required.					
5.1		120 mm dia (OD-120 mm & ID-103 mm nominal)		mtr	420	1012.86	425402.48
5.2		160 mm dia (OD-160 mm & ID-135 mm nominal)		mtr	410	1499.04	614605.29
6		Laying of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1 kv grade of following size in existing RCC/ HUME/ Stoneware/Metal pipe/HDPE etc as required.					
6.1		Above 95 sq. mm and upto 185 sq. mm		mtr	5137	60.77	312184.65
6.2		Above 185 sq. mm and upto 400 sq. mm		mtr	3436	105.34	361940.53
7		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kv grade of following size in the existing masonry open duct as required.					
7.1		Above 95 sq. mm and upto 185 sq. mm		mtr	137	48.62	6660.59
7.2		Above 185 sq. mm and upto 400 sq. mm		mtr	643	89.13	57311.84
8		Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kv grade of following size on wall surface as required.					
8.1		Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)		mtr	20	121.54	2430.87
8.2		Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)		mtr	30	141.80	4254.02
9		Laying & fixing of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1 kv grade of following size on cable tray as required.					
9.1		Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)		mtr	17	97.23	1652.99
9.2		Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)		mtr	96	113.44	10890.30
10		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.					
10.1		3½ X 120 sq. mm (45mm)		Job	2	397.04	794.08
10.2		3½ X 150 sq. mm (50mm)		Job	6	405.15	2430.87
10.3		3½ X 185 sq. mm (57mm)		Job	6	559.10	3354.60
10.4		3½ X 240 sq. mm (62mm)		Job	8	648.23	5185.86
10.5		3½ X 300 sq. mm (70mm)		Job	5	729.26	3646.31
10.6		3½ X 400 sq. mm (82mm)		Job	4	972.35	3889.39

[Handwritten signature]

Sr. No.	Description of Items	Unit	Qty.	Rate	Amount
11	Supplying and making straight through joint with heat shrinkable kit 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.				
11.1	3/4" X 120 sq. mm	Job	1	2592.93	2592.93
11.2	3/4" X 150 sq. mm	Job	4	2592.93	10371.72
11.3	3/4" X 185 sq. mm	Job	3	2957.56	8872.68
11.4	3/4" X 240 sq. mm	Job	3	3565.28	10695.83
11.5	3/4" X 300 sq. mm	Job	3	4375.57	13126.70
11.6	3/4" X 400 sq. mm	Job	1	5266.89	5266.89
12	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) of size 60 cm X 60 cm at the bottom and 50cm X 30 cm at the top with a thickness of 10cm including inscription duly engraved as required.	Job	12	486.17	5834.09
13	Design, fabrication, supply, installation, testing and commissioning of cubical type, dust & vermin proof, outdoor type, floor mounted electrical Feeder Pillar with IP 54 protection, suitable for 415 V, 3 phase, 50 Hz AC supply system fabricated in compartmentalised design from CRCA sheet steel of 2mm thick for frame work and covers, detachable gland plates of suitable thickness and front hinged door locking arrangement, i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having extendable TPN Aluminium Alloy bus bars of high conductivity, DMC/SMC bus bar supports and insulators suitable for 1.1 kV. The minimum dimensions of the feeder pillar should be 600 mm (Width) x 300 mm (Depth) x 500 mm (Height). Entire panel shall have a common GI earth bar of size 25mm x 5mm at the rear with 2 Nos. earth studs along with bottom holes (4 nos.) of appropriate size for cable entry. Mounting/Grounding should be done with iron/MS angle with minimum size of 50mm x 50mm x 6mm grouted properly by cement concrete of 1:2:4 ratio up to 0.30 mtr depth and 0.30 mtr above ground level.	Job	1	15395.52	15395.52
14	Bus Bar:- 600 Amps of high conductivity Aluminium busbar of minimum size 80 mm x 6 mm x 350 mm for three phase and neutral - 1 Set. Bus bar should have holes with nut bolts for terminating cables of size 3.5x400 sqmm or as directed by Engineer-in-Charge.				
14	Design, fabrication, supply, installation, testing and commissioning of cubical type, dust & vermin proof, outdoor type, floor mounted electrical Feeder Pillar with IP 54 protection, suitable for 415 V, 3 phase, 50 Hz AC supply system fabricated in compartmentalised design from CRCA sheet steel of 2mm thick for frame work and covers, detachable gland plates of suitable thickness and front hinged door locking arrangement, i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having extendable TPN Aluminium Alloy bus bars of high conductivity, DMC/SMC bus bar supports and insulators suitable for 1.1 kV. The minimum dimensions of the feeder pillar should be 600 mm (Width) x 300 mm (Depth) x 500 mm (Height). Entire panel shall have a common GI earth bar of size 25mm x 5mm at the rear with 2 Nos. earth studs along with bottom holes (4 nos.) of appropriate size for cable entry. Mounting/Grounding should be done with iron/MS angle with minimum size of 50mm x 50mm x 6mm grouted properly by cement concrete of 1:2:4 ratio up to 0.30 mtr depth and 0.30 mtr above ground level.	Job	10	15395.52	153955.18
15	Bus Bar:- 300 Amps of high conductivity Aluminium busbar of minimum size 50 mm x 3 mm x 350 mm for three phase and neutral - 1 Set. Bus bar should have holes with nut bolts for terminating cables of size 3.5x120/3.5x150/3.5x185 sqmm or as directed by Engineer-in-Charge.				
15	Design, fabrication, supply, installation, testing and commissioning of cubical type, dust & vermin proof, outdoor type, floor mounted electrical Feeder Pillar with IP 54 protection, suitable for 415 V, 3 phase, 50 Hz AC supply system fabricated in compartmentalised design from CRCA sheet steel of 2mm thick for frame work and covers, detachable gland plates of suitable thickness and front hinged door locking arrangement, i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having extendable TPN Aluminium Alloy bus bars of high conductivity, DMC/SMC bus bar supports and insulators suitable for 1.1 kV. The minimum dimensions of the feeder pillar should be 600 mm (Width) x 300 mm (Depth) x 500 mm (Height). Entire panel shall have a common GI earth bar of size 25mm x 5mm at the rear with 2 Nos. earth studs along with bottom holes (4 nos.) of appropriate size for cable entry. Mounting/Grounding should be done with iron/MS angle with minimum size of 50mm x 50mm x 6mm grouted properly by cement concrete of 1:2:4 ratio up to 0.30 mtr depth and 0.30 mtr above ground level.	Job	6	15395.52	92373.11
16	Bus Bar:- 500 Amps of high conductivity Aluminium busbar of minimum size 75 mm x 6 mm x 350 mm for three phase and neutral - 1 Set. Bus bar should have holes with nut bolts for terminating cables of size 3.5x240/3.5x300 sqmm or as directed by Engineer-in-Charge.				
16	Design, fabrication, supply, installation, testing and commissioning of cubical type, dust & vermin proof, outdoor type, floor mounted electrical Feeder Pillar with IP 54 protection, suitable for 415 V, 3 phase, 50 Hz AC supply system fabricated in compartmentalised design from CRCA sheet steel of 2mm thick for frame work and covers, detachable gland plates of suitable thickness and front hinged door locking arrangement, i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having extendable TPN Aluminium Alloy bus bars of high conductivity, DMC/SMC bus bar supports and insulators suitable for 1.1 kV. The minimum dimensions of the feeder pillar should be 1000 mm (Width) x 400 mm (Depth) x 600 mm (Height). Entire panel shall have a common GI earth bar of size 25mm x 5mm at the rear with 2 Nos. earth studs along with bottom holes (4 nos.) of appropriate size for cable entry. Mounting/Grounding should be done with iron/MS angle with minimum size of 50mm x 50mm x 6mm grouted properly by cement concrete of 1:2:4 ratio up to 0.30 mtr depth and 0.30 mtr above ground level.	Job	2	42945.39	85890.79
	Bus Bar:- 400 Amps of high conductivity Aluminium busbar of minimum size 50 mm x 6 mm x 350 mm for three phase and neutral - 1 Set. Bus bar should have holes with nut bolts for terminating cables of size 3.5x150/3.5x185 sqmm or as directed by Engineer-in-Charge.				
	Change-over-Switch: 320A on-load - 1 no. inside the feeder pillar with 2 inputs and 1 output.				

7/2/2

Sr. No.	Description of Items	Unit	Qty.	Rate	Amount
SH-II	Supply & laying of HT cables in operational area				
17	Supply of 3 core x 35 sqmm, 11 kV(E) grade stranded compact circular aluminium conductor, conductor screen with extruded semi conducting compound, XLPE insulated, insulation screening with extruded semi conducting compound in combination with copper tape, cores laid up, inner sheath of PVC, Galvanized steel flat strip armoured and overall PVC sheathed cable conforming to IS 7098 Part-II, 2011 with the latest amendments and as specified.	mtr	700	405.15	283601.65
18	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for 35 sqmm, 3 core, XLPE aluminium conductor cable of 11 kV grade as required.	Job	3	13774.94	41324.81
19	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including compression glands (if required) and lugs suitable for 35 sqmm, 3 core, XLPE aluminium conductor cable of 11 kV grade as required.	Job	1	9723.49	9723.49
20	Supplying and laying of DWC HDPE pipe (ISI marked) of following sizes 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 (1.2 mtr below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	mtr	391	243.09	95047.07
21	120 mm dia (OD-120 mm & ID-103 mm nominal) Providing, laying and fixing G.I. pipe (medium class) of following diameters by proper supports for drain/naala crossing complete in as respect as required.	mtr	14	1519.29	21270.12
22	Supply & Laying of HDPE pipe of following outer/inner dia having 6 KG/cm ² pressure rating through trenchless technology, direct in ground upto the depth of 3 meters including splicing of pipe of size complete as required.	mtr	292	891.32	260265.29
23	120 mm dia (OD-120 mm & ID-103 mm nominal) Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of following size in existing RCC/ HUME/ Stoneware/Metal pipe/HDPE etc as required.	mtr	762	60.77	46308.10
24	Upto 120 sqmm Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of following size in existing masonry open duct as required.	mtr	149	48.62	7244.00
25	Upto 120 sqmm Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of following size on cable tray as required.	mtr	39	97.23	3792.16
SH-III	Replacement of LT Electrical Panels in operational area				
26	Design, fabrication, supply, installation, testing and commissioning of outdoor type IP54 rated dust & vermin proof floor mounted electrical panel, fabricated in compartmentalized design from 2 mm thick CRCA sheet steel, complete with 7 tank process for powder coating in approved shade, with extensible aluminium bus bars with SMC busbar supports, short circuit withstand capacity of minimum 25 kA for 1 sec, copper earth strips of standard size & studs, gland plates of suitable thickness, cable alleys of suitable size for cable routing etc. complete with metering instruments, LED indicating lamps & accessories suitable for operation on 415 V, 50 Hz AC system including control wiring, interlocking arrangement between incomers & buscouplers, protections etc. suitable/compatible with following switchgears & instruments. INCOMERS MCCB FP 250A, 25kA Ics = 100% Icu with built in thermal magnetic release- 3 Nos BUSBARS Extensible TPN aluminium main busbars of minimum 800A and auxiliary busbars of suitable ratings with sleeves, SMC supports at specified intervals etc. - 01 set BUS COUPLERS MCCB FP 250A, 25kA Ics = 100% Icu with built in thermal magnetic release- 2 Nos OUTGOINGS MCCB FP 125A, 25kA Ics = 100% Icu with built in thermal magnetic release- 3 Nos MCCB FP 63A, 25kA Ics = 100% Icu with built in thermal magnetic release- 9 Nos INSTRUMENTATION & METERING All incoming and outgoing supplies should have digital MFM showing voltage & current levels along with selector switches, CTs/PTs of appropriate capacities & ratios, LED indication lamps as per system requirement. Mounting/Grouting of the panel should be done with iron/MS angle of suitable size grouted properly in foundation with cement concrete of 1:2:4 ratio.	Job	1	196900.57	196900.57

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Sr. No.	Description of Items	Unit	Qty.	Rate	Amount
27	Design, fabrication, supply, installation, testing and commissioning of outdoor type IP54 rated dust & vermin proof floor mounted electrical panel, fabricated in compartmentalized design from 2 mm thick CRCA sheet steel, complete with 7 tank process for powder coating in approved shade, with extensible aluminium bus bars with SMC busbar supports, short circuit withstand capacity of minimum 25 kA for 1 sec, copper earth strips of standard size & studs, gland plates of suitable thickness, cable alleys of suitable size for cable routing etc. complete with metering instruments, LED indicating lamps & accessories suitable for operation on 415 V, 50 Hz AC system including control wiring, interlocking arrangement between incomers & buscouplers, protections etc. suitable/compatible with following switchgears & instruments. INCOMERS MCCB FP 125A, 25KA Ics = 100% Icu with built in thermal magnetic release- 2 Nos BUSBARS Extensible TPN aluminium main busbars of minimum 300A and auxiliary busbars of suitable ratings with sleeves, SMC supports at specified intervals etc.- 01 set BUS COUPLERS MCCB FP 125A, 25KA Ics = 100% Icu with built in thermal magnetic release- 1 Nos OUTGOINGS MCCB FP 100A, 25KA Ics = 100% Icu with built in thermal magnetic release- 2 Nos MCCB FP 63A, 25KA Ics = 100% Icu with built in thermal magnetic release- 2 Nos MCCB FP 25A, 25KA Ics = 100% Icu with built in thermal magnetic release- 2 Nos INSTRUMENTATION & METERING All incoming and outgoing supplies should have digital MFM showing voltage & current levels along with selector switches, CTs/PTs of appropriate capacities & ratios, LED indication lamps as per system requirement. Mounting/Grouting of the panel should be done with iron/MS angle of suitable size grouted properly in foundation with cement concrete of 1:2:4 ratio.	Job	2	430264.22	860528.44
28	Design, fabrication, supply, installation, testing and commissioning of outdoor type IP54 rated dust & vermin proof floor mounted electrical panel, fabricated in compartmentalized design from 2 mm thick CRCA sheet steel, complete with 7 tank process for powder coating in approved shade, with extensible aluminium bus bars with SMC busbar supports, short circuit withstand capacity of minimum 50 kA for 1 sec, copper earth strips of standard size & studs, gland plates of suitable thickness, cable alleys of suitable size for cable routing etc. complete with metering instruments, LED indicating lamps & accessories suitable for operation on 415 V, 50 Hz AC system including control wiring, interlocking arrangement between incomers & buscouplers, protections etc. suitable/compatible with following switchgears & instruments. INCOMERS MCCB FP 400A, 50KA Ics = 100% Icu with built in thermal magnetic release- 3 Nos BUSBARS Extensible TPN aluminium main busbars of minimum 1600A and auxiliary busbars of suitable ratings with sleeves, SMC supports at specified intervals etc.- 01 set BUS COUPLERS MCCB FP 400A, 50KA Ics = 100% Icu with built in thermal magnetic release- 2 Nos OUTGOINGS MCCB FP 250A, 25KA Ics = 100% Icu with built in thermal magnetic release- 3 Nos MCCB FP 125A, 25KA Ics = 100% Icu with built in thermal magnetic release- 6 Nos INSTRUMENTATION & METERING All incoming and outgoing supplies should have digital MFM showing voltage & current levels along with selector switches, CTs/PTs of appropriate capacities & ratios, LED indication lamps as per system requirement. Mounting/Grouting of the panel should be done with iron/MS angle of suitable size grouted properly in foundation with cement concrete of 1:2:4 ratio.	Job	1	495897.74	495897.74

28/5/16

Sr. No.	Description of Items	Unit	Qty.	Rate	Amount
29	Design, fabrication, supply, installation, testing and commissioning of outdoor type IP54 rated dust & vermin proof floor mounted electrical panel, fabricated in compartmentalized design from 2 mm thick CRCA sheet steel, complete with 7 tank process for powder coating in approved shade, with extensible aluminium bus bars with SMC busbar supports, short circuit withstand capacity of minimum 25 kA for 1 sec, copper earth strips of standard size & studs, gland plates of suitable thickness, cable alleys of suitable size for cable routing etc. complete with metering instruments, LED indicating lamps & accessories suitable for operation on 415 V, 50 Hz AC system including control wiring, interlocking arrangement between incomers & buscouplers, protections etc. suitable/compatible with following switchgears & instruments. INCOMERS MCCB FP 250A, 25kA Ics = 100% Icu with built in thermal magnetic release- 2 Nos BUSBARS Extensible TPN aluminium main busbars of minimum 600A and auxiliary busbars of suitable ratings with sleeves, SMC supports at specified intervals etc.- 01 set BUS COUPLERS MCCB FP 250A, 25kA Ics = 100% Icu with built in thermal magnetic release- 1 Nos OUTGOINGS MCCB FP 125A, 25kA Ics = 100% Icu with built in thermal magnetic release- 2 Nos MCCB FP 63A, 25kA Ics = 100% Icu with built in thermal magnetic release- 4 Nos INSTRUMENTATION & METERING All incoming and outgoing supplies should have digital MFM showing voltage & current levels along with selector switches, CTs/PTs of appropriate capacities & ratios, LED indication lamps as per system requirement. Mounting/Grouting of the panel should be done with iron/MS angle of suitable size grouted properly in foundation with cement concrete of 1:2:4 ratio.	Job	1	247138.58	247138.58
SH-IV	EARTHING	Job	29	5672.03	164488.96
30	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required	Mtr	252	121.54	30628.98
31	Supplying and laying 25 mm X 5 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Joining shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr	87	526.69	45821.92
32	Providing and fixing 25 mm X 5 mm G.I. strip from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Mtr	29	186.37	5404.64
33	Providing and fixing 25 mm X5 mm G.I. strip on surface or in recess for connections etc. as required.		Total Amount (W/o GST)		12942850.00

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21/8/22
Senior Manager (Engg. E)