



सं.संख्या: भाविप्रा/पक्षे/मुंबई/वप्र(अभि.वि.)-एटीएस/सीडब्ल्यू/काआ-01/2024-25
Ref.No.: AAI/WR/MUM/SM(E-E)-ATS/CW/WO-01/2024-25

दिनांक : 18.04.2024
DATE : 18.04.2024

BY SPEED POST / E-mail

प्रति, / To,
मेसर्स. के. शर्मा इलेक्ट्रिकल्स प्रा.लि. / M/s. K.Sharma Electricals Pvt.Ltd.,
ऑफिस नं.3, 1^{री} मंजिल, प्लॉट नं.40, / Office No.3, 1st Floor, Plot No.40,
नीलकंठ कमर्शियल कॉम्प्लेक्स, / Neelkanth Commercial Complex,
एन.जी.आचार्य मार्ग, चेंबूर, / N.G.Acharya Marg, Chembur,
मुंबई - 400 071 / Mumbai - 400 071.

विषय/Sub: "छ.शि.म.अं.हवाईअड्डा, मुंबई के परिचालन क्षेत्र के अंदर नए आईएलएस 14-का निर्माण। उपशीर्ष - विद्युत कार्य। (निविदा आय.डी.: 2024_भाविप्रा_183372_1)" / "Construction of New ILS-14 inside Operational Area at C.S.M.I.Airport, Mumbai. SH - Electrical Works (Tender ID : 2024_AAI_183372_1)"

संदर्भ / Ref. : आपकी वित्तीय बोली दिनांक 28.02.2024 को खुला।/ Your Financial Bid is opened on 28.02.2024.

महोदय / Sir,

- उपरोक्त कार्य के लिए आपकी निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आपके द्वारा उद्धृत मद दरों पर स्वीकार की जाती है जो कुल रु. 26,93,565.00 (रुपये छब्बीस लाख तिरानबे हजार पांच सौ पैसठ मात्र) (जीएसटी रहित), जो निविदा में रखी गई अनुमानित/उचित लागत रु. 31,94,124.00 (जीएसटी रहित) से 15.67% नीचे है। वैध टैक्स चालान के खिलाफ जीएसटी का भुगतान किया जाएगा। कृपया कर चालान में महाराष्ट्र राज्य के लिए **AAI GST no. 27AAACA6412D1Z8** उद्धृत करें।
- Your tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India at the item rates quoted by you totaling to Rs. 26,93,565.00 (Rupees Twenty Six Lakhs Ninety Three Thousand Five Hundred Sixty Five only) (excluding GST) which is 15.67% below the estimated/justified cost put to tender of Rs. 31,94,124.00 (excluding GST). GST will be paid against Valid Tax invoice. Please quote **AAI GST no.27AAACA6412D1Z8** for Maharashtra State in Tax Invoice.
- वरिष्ठ प्रबंधक (अभि.विद्युत), भाविप्रा, एटीएस कॉम्प्लेक्स, क्षेत्रीय मुख्यालय, पश्चिम क्षेत्र, मुंबई कार्य के प्रभारी अभियंता होंगे। आपसे अनुरोध है कि आप वरिष्ठ प्रबंधक (अभि.विद्युत), भाविप्रा, क्षेत्रीय मुख्यालय, पश्चिम क्षेत्र, मुंबई के कार्यालय में दिनांक **29.04.2024** तक उपस्थित रहकर हस्ताक्षर करने तथा करार की कार्यवाही पूर्ण करने का कष्ट करें। ठेका करार का निष्पादन 100/- रुपये (केवल एक सौ रुपये) के गैर-न्यायिक स्टैम्प पेपर पर किया जाएगा तथा स्टैम्प पेपर का खर्च आपके द्वारा वहन किया जाएगा।
- Senior Manager (Engg.-E.), AAI, ATS Complex, Regional Head Quarter, Western Region, Mumbai shall be the Engineer-In-Charge of the work. You are requested to attend the office of the Senior Manager (Engg.-E.), AAI, ATS Complex, Regional Head Quarter, Western Region, Mumbai by **29.04.2024** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100/- (Rupees One hundred only) and the cost of the stamp paper shall be borne by you.
- आपसे अनुरोध है कि इस पत्र के जारी होने की तिथी से 10 दिनों के भीतर सुरक्षा राशि जो टेंडर राशि के 10 % है को प्रस्तुत करें, अन्यथा अनुबंध के पृष्ठ 56 पर शर्त के अनुसार आपके बिल से काटा जाएगा।
- You are requested to furnish security deposit @ 10 % of tendered amount within 10 days from the date of issue of this letter, failing which the same will be deducted from your bill as per condition on page 56 of the contract document.


वरिष्ठ प्रबंधक (अभि.-विद्युत)
Sr. Manager (Engg.-Elect.)
भारतीय विमानपत्तन प्राधिकरण, अभि. विद्युत विभाग,
Airports Authority of India, Engg. Elect. Wing,
एटीएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
ATS Complex, Andheri (East), Mumbai - 400 099.

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4. आपसे अनुरोध है कि ठेका श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और ठेका श्रम (विनियमन और उन्मूलन) केंद्रीय नियमावली 1971 और केंद्रीय एवम राज्य सरकारों के न्यूनतम वेतन तथा उससे संबंधित अन्य नियमों के प्रावधानों का पालन करें।
4. You are requested to comply with the provisions of contract labour (Regulation and abolition) Act of 1970 and contract labour (Regulation & abolition) Central rules 1971 and minimum wages Act & rules of central and state Governments with its upto date amendments thereof.
5. आपको यह भी निर्देश दिया जाता है कि आप तुरंत सहायक प्रबंधक (अभि.वि.), भाविप्रा, एटीएस कॉम्प्लेक्स, मुंबई से संपर्क करें जो आपको साइट सौंपने की व्यवस्था करेंगे।
5. You are also directed to contact Asstt.Manager (Engg.-E.), AAI, ATS Complex, Mumbai immediately who will arrange to hand over the site to you.
6. कृपया यह भी नोट कर ले कि निविदा के अनुसार कार्य निष्पादन हेतु अनुमत समय **03 (तीन) माह** है, जिसकी गणना **29.04.2024** से **28.07.2024** तक की जाएगी।
6. Please note that the time allowed for carrying out the work is **03 (Three) months**, which shall be reckoned from from **29.04.2024** to **28.07.2024**.
7. इस ठेके के संबंध में कोई और पत्राचार सामान्य रूप से वरिष्ठ प्रबंधक (अभि.विद्युत), भाविप्रा, एटीएस कॉम्प्लेक्स, क्षेत्रीय मुख्यालय, पश्चिम क्षेत्र, मुंबई को संबोधित किया जाना चाहिए।
7. Any further correspondence in connection with the contract should normally be addressed to the Senior Manager (Engg.-E.), AAI, ATS Complex, Regional Head Quarter, Western Region, Mumbai.
8. ऊपर उल्लिखित सभी पत्र अनुबंध का हिस्सा होंगे।
8. All the letters referred above shall form part of contract.
9. कृपया इस पत्र की प्राप्ति सूचना दें तथा इसके साथ संलग्न अनुप्रति पर हस्ताक्षर करके टोकन के प्रतिग्रहण के रूप में अधोहस्ताक्षरी को वापस भेजें।
9. 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..
10. कार्य आदेश के संबंध में किसी प्रकार की टंकनीय त्रुटी/विसंगति होने पर अंग्रेजी संस्करण मान्य होगा।
10. With reference to this work order, if in case of any typographical mistake / discrepancy arise, the English version shall prevail.

धन्यवाद, / Thanking You,

भवदीय / Yours faithfully,



वरिष्ठ प्रबंधक (अभि.-विद्युत),
Senior Manager (Engg.-E.),

कृते तथा ओर से, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण
For and on behalf of Chairman, Airports Authority of India

संलग्न / Encl. : मात्रा का बिल / Bill of quantities.

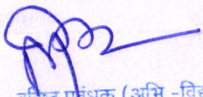
वरिष्ठ प्रबंधक (अभि.-विद्युत)
Sr. Manager (Engg.-Elect.)
भारतीय विमानपत्तन प्राधिकरण, अभि. विद्युत विभाग,
Airports Authority of India, Engg. Elect. Wing,
एटीएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
ATS Complex, Andheri (East), Mumbai - 400 099.

भारतीय विमानपत्तन प्राधिकरण / AIRPORTS AUTHORITY OF INDIA
अभियांत्रिकी विद्युत विभाग, एटीएस कॉम्प्लेक्स, मुंबई - 400 099 / ENGINEERING ELECTRICAL WING, ATS COMPLEX, MUMBAI - 400 099.

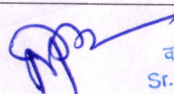
Bill of Quantities (B.O.Q.)

Name of Work: "Construction of New ILS-14 inside Operational Area at C.S.M.I. Airport, Mumbai. SH - Electrical Works"

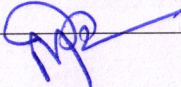
Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
1.00	Supply of following sizes XLPE insulated PVC sheathed armoured Copper conductor cable of grade 1.1 KV , confirming to IS 7098 Part-I with up to date amendments.	1				
2.00	3c x 6 Sq. mm.	(a)	100	Meter	247.00	24700.00
3.00	3c x 10 Sq.mm	(b)	100	Meter	395.00	39500.00
4.00	Supply of following sizes XLPE insulated PVC sheathed armoured aluminium conductor cable of grade 1.1 KV, confirming to IS 7098 Part-I with up to date amendments.	2				
5.00	(a) 2c x 6 sq.mm.	(a)	100	Meter	80.00	8000.00
6.00	(b) 3.5c x 120 Sq.mm.	(b)	200	Meter	592.00	118400.00
7.00	Supply, installation, testing and commissioning of 100 Amp,4 pole, 25kA rating, adjustable thermal fixed magnetic release , lcs=lcu=100% ,415V AC, MCCB in suitable MS enclosure with rotary handle etc. i/c R,Y,B indication lamps on incomer side, cables/wires connection complete etc. as required. The Enclosure are to be mounted on the frangible wall by providing suitable size GI strip on both the wall with the support of GI Nut and bolt or as per site requirement.	3	4	Job	12500.00	50000.00


वरिष्ठ प्रबंधक (अभि.-विद्युत)
Sr. Manager (Engg.-Elect.)
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Airports Authority of India, Engg. Elect. Wing,
एटीएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
ATS Complex, Andheri (East), Mumbai - 400 099.

Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
8.00	Supply, Installation, Testing and Commissioning of 4 Pole automatic transfer switch with Enclosure and complete protection, 100A , 415V,50Hz, 4 Pole etc as per site requirement. The Enclosure are to be mounted on the frangible wall by providing suitable size GI strip on both the wall with the support of GI Nut and bolt or as per site requirement.	4	2	Job	36000.00	72000.00
9.00	Supply, Installation, Testing and Commissioning of 3P+N, Type 1+2 surge protection device with I(max) = 50 kA, I(imp) = 12.5 kA in suitable size polycarbonate box, including connection interconnection with 10 sq.mm. copper conductor to incomers or as directed by the EIC. The Enclosure are to be mounted on the frangible wall by providing suitable size GI strip on both the wall with the support of GI Nut and bolt or as per site requirement.	5	4	Job	13500.00	54000.00
10.00	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/ HDPE/DWC pipe as required.	6				
11.00	Above 35 sq. mm and upto 95 sq. mm	6.1	30	Meter	40.00	1200.00
12.00	Above 95 sq. mm and upto 185 sq. mm	6.2	130	Meter	75.00	9750.00
13.00	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.	7				
14.00	Upto 35 sq. mm (clamped with 1mm thick saddle)	7.1	90	Meter	40.00	3600.00
15.00	Above 35 sq. mm and upto 95 sq. mm	7.2	20	Meter	70.00	1400.00
16.00	Above 95 sq. mm and upto 185 sq. mm	7.3	50	Meter	80.00	4000.00
17.00	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.	8				


 वरिष्ठ प्रबंधक (अभि.-विद्युत)
 Sr. Manager (Engg.-Elect.)
 भारतीय विमानपत्तन प्राधिकरण, अभि. विद्युत विभाग,
 Airports Authority of India, Engg. Elect. Wing,
 एडिएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
 Complex, Andheri (East), Mumbai - 400 099.

Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
18.00	3½ X 120 sq. mm (45mm)	8.1	6	Each	700.00	4200.00
19.00	3.5c x 95 sq.mm.	8.2	2	Each	700.00	1400.00
20.00	Supplying and making end termination with brass compression gland and Copper lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	9				
21.00	3c x 6 sq.mm	9.1	6	Each	450.00	2700.00
22.00	4c x 25 sq.mm.	9.2	2	Each	700.00	1400.00
23.00	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.	10				
24.00	3½ X 95 sq. mm	10.1	2	Each	5500.00	11000.00
25.00	3½ X 120 sq. mm	10.2	4	Each	7500.00	30000.00
26.00	Earthing with copper earth plate 600 mm X 600 mm X 3 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.	11	4	Each	15000.00	60000.00
27.00	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50 mm)	12	40	Meter	860.00	34400.00


 वरिष्ठ प्रबंधक (अभि.-विद्युत)
 Sr. Manager (Engg.-Elect.)
 भारतीय विमानपत्तन प्राधिकरण, अभि. विद्युत विभाग,
 Airports Authority of India, Engg. Elect. Wing,
 एटिएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
 ATS Complex, Andheri (East), Mumbai - 400 099.

Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
28.00	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	13	20	Meter	975.00	19500.00
29.00	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	14	120	Meter	50.00	6000.00
30.00	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required	15				
31.00	50 mm dia	15.1	30	Meter	700.00	21000.00
32.00	100 mm dia	15.2	12	Meter	1500.00	18000.00
33.00	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 modular switch, modular plate, suitable PVC box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	16	12	Each	650.00	7800.00
34.00	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 PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	17	22	Each	625.00	13750.00
35.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.	18				
36.00	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	18.1	60	Meter	210.00	12600.00


 वरिष्ठ प्रबंधक (अभि.-विद्युत)
 Sr. Manager (Engrg.-Elect)
 भारतीय विमानपत्तन प्राधिकरण, अभि. विद्युत विभाग,
 Airports Authority of India, Engrg. Elect. Wing,
 एटिस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
 ATS Complex, Andheri (East), Mumbai - 400 099.

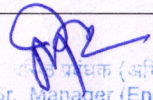
Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
37.00	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	18.2	300	Meter	280.00	84000.00
38.00	Supplying and fixing suitable size PVC box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	19	66	Each	675.00	44550.00
39.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	20				
40.00	5/6 A switch	20.1	6	Each	80.00	480.00
41.00	3 pin 5/6 A socket outlet	20.2	6	Each	145.00	870.00
42.00	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	21	10	Each	18.00	180.00
43.00	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required .	22				
44.00	4 way (4 + 12), Double door	22.1	2	Each	10300.00	20600.00
45.00	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, 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)	23				
46.00	8 way , Double door	23.1	6	Each	2250.00	13500.00
47.00	16 way, Double door	23.2	2	Each	3300.00	6600.00


 Sr. Manager (Engg.-Elect.)
 भारतीय विमानपत्तन प्राधिकरण, अग्नि. विद्युत विभाग,
 Airports Authority of India, Engg. Elect. Wing,
 एटएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
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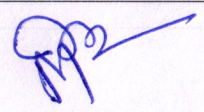
Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
48.00	Supplying and fixing of following rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	24				
49.00	6A to 32A SP MCB	24.1	58	Each	150.00	8700.00
50.00	40A SP MCB	24.2	5	Each	375.00	1875.00
51.00	6A to 32A DP MCB	24.3	2	Each	450.00	900.00
52.00	63A TPN MCB	24.4	2	Each	1600.00	3200.00
53.00	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 40 A 415 V "C" curve TPN MCB complete with connections, testing and commissioning etc. as required.	25	2	Each	1600.00	3200.00
54.00	Supplying and fixing TPN sheet steel enclosure on surface/ recess along with 32 A 415 V "C" curve TPN MCB complete with connections, testing and commissioning etc. as required.	26	4	Each	2000.00	8000.00
55.00	Supply of 20W surface/wall mounted LED batten with all its accessories. It has a system level luminaire efficacy of not less than 100 lm/W. CCT 5700K, suitable for indoor applications complete as per technical specifications.	27	30	Each	400.00	12000.00
56.00	Supply of 10W LED Bulkhead luminaire with Vandal resistant Polycarbonate diffuser having system efficacy of luminaire not less than 110 lm/W, CCT from 5700K, complete with driver and other accessories suitable for residential applications complete as per the technical specifications. (Similar to Havells CAT No. HEXAFT10WLED or equivalent)	28	2	Each	1250.00	2500.00
57.00	Installation, Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	29	32	Each	150.00	4800.00

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Sr. Manager (Engg.-Elect.)
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Airports Authority of India, Engg. Elect. Wing,
एटिएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
ATS Complex, Andheri (East), Mumbai - 400 099.

Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
58.00	Supply of 90 W LED street light fitting having system efficacy of not less than 110 lumens per watt, CCT 5700K, Complete with electronic driver and accessories etc, suitable for outdoor applications complete as per technical specifications. (Similar to Havells CAT No. ENDURA PEARL PLUS SL90W or equivalent).	30	8	Each	7200.00	57600.00
59.00	Installation, Testing, Commissioning of streetlight by providing suitable shape and size wall mounted bracket complete with all accessories including connections etc. as required.	31	8	Each	825.00	6600.00
60.00	Air conditioning					
61.00	Supply of 1 Phase, 1.5 TR Highwall split AC of 5 star rating Inverter type Air-conditioners along with high wall type indoor unit suitable to operate from 230±10%, 50 Hz, 1 phase power supply (along with necessary wiring from nearest power source to the required outdoor and indoor units) having high EER Compressor with Indoor & Outdoor Copper coil refrigeration having aluminum fins firmly bonded to copper tubes assembled in zinc coated steel frame with Eco friendly R-32 or equivalent Refrigeration Gas alongwith copper conductor PVC insulated PVC sheathed multicore power cable from indoor to outdoor unit (i/c 3 mtr copper refrigerent pipe). The indoor unit should have real time clock, operating facility from cordless remote, along with time and temperature display. Outdoor unit to be installed as Directed by Engineer-in-Charge. The Cooling Capacity of the machine shall be 5000 W / 17100 BTU/Hr (Minimum).	32	12	Each	43000.00	516000.00
62.00	ITC of the 1.5 TR split type Air-conditioners along with Outdoor and Indoor unit suitable to operate on 1 Phase Power supply. Indoor of the AC are to fixed on frangible wall by the providing separate suitable size GI Stips on on both sides of the wall for support or other arrangement as per the site requirement and instruction of the EIC.	33	12	Each	2000.00	24000.00
63.00	Supply and fixing of Table type AC outdoor stand of suitable size made of MS angle/ frame as per site requirement etc. for installation of outdoor compressor units as per direction of Engineer-in-Charge.	34	12	Each	2000.00	24000.00


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 Airports Authority of India, Engg. Elect. Wing,
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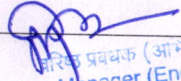
Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
64.00	Supply and fixing of extra copper refrigerant piping complete with suction / liquid line, insulation (i.e. cunifoam with neoprene / rubber lining), and all the accessories i/c Control Cable as per site requirement as directed by Engineer-in-Charge including additional gas charging as required. (a) Suitable for 1.5 TR Highwall Split Inverter AC along with its Control Cable	35	10	Meter	700.00	7000.00
65.00	Supply and laying of 25 mm dia cotton braided PVC pipe to be used for drainage of condensate from indoor units to the nearest drain-port as directed by Engineer-in-Charge.	36	15	Meter	65.00	975.00
66.00	Supply installation testing and commissioning of the timer for auto/manual operation of the Air Conditions upto 2Tr. The Timer shall have provision for 02 nos. of AC as input and 01 no. as output with provision for switching of ACs as per the user requirement in the time interval of 4/6/12 Hr.	37	6	Each	5000.00	30000.00
67.00	Supplying & fixing suitable size PVC box wih modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including onnections, painting etc. as required.	38	12	Each	700.00	8400.00
68.00	Fire Alarm					
69.00	SITC of IP based Addressable type Fire Alarm control panel of minimum 2 loops (each Loop card having capacity to accommodate minimum 99 detectors and 99 modules)with the following facilities like 80 character display unit, power supply unit, built in battery charger, including 24 Volts sealed maintenance free lead acid batteries for 02 hours backup, Auto dialer facility with 20 nos. dialer, web server PCB for IP connectivity etc. complete as required.	39	2	Job	175000.00	350000.00


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 एटिएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
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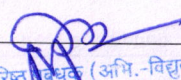
Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
70.00	Supply, Installation, Testing & commissioning of UL / EN listed (latest version) intelligent addressable multi criteria detector (Smoke + heat) (Base Included) with inbuilt fault isolator / isolator base and with unique optical sensing chamber, visible LED, fully coated circuit board, superior RF / Transient protection suitable for 2 wires loop connection, complete with plug into common separate base & housing constructed of LEXAN (or polycarbonate) complete with connections etc. as required and to be installed below / above false ceiling roof and concealed space and as per enclosed specifications ,complete as required. (Cost of plug in common base shall deemed to be included in cost of detectors)	40	8	Each	2300.00	18400.00
71.00	Supply, Installation, Testing & commissioning of UL / EN listed (latest version) intelligent addressable Manual call station (Resetable pull / push type) suitable for semi flush mounting, IP 54 for indoor use & IP 65 for outdoor use with inbuilt fault isolator / isolator module with double gang outlet box, equipment for key operated test-reset lock, electronic or rotary switches for address setting. Manual pull station shall be connected with two wire to SLC loop of Fire Control Panel. Cover shall be made out of LEXAN (or poly carbonate equivalent) with clear operating instruction and the word Fire appearing on the front complete with connections etc. as required and as per enclosed specifications.	41	2	Each	3600.00	7200.00
72.00	Supply, installation, testing and commissioning of UL / EN listed (latest version) loop powered addressable Hooter-cum- strobe with inbuilt fault isolator / isolator module with adjustable sound level in the range of min. 90 db to Max. 120 db at 1M distance complete with termination etc. as required and as per enclosed specification.	42	2	Each	8500.00	17000.00
73.00	Supply and laying of 2c x 1.5 Sq. mm. XLPE insulated PVC sheathed armoured Copper conductor cable of grade 1.1 KV, confirming to IS 7098 Part-I with upto date amendments etc. complete as required on surface .	43	60	Meter	145.00	8700.00
74.00	Supply and laying of 4c x 1.5 Sq. mm. XLPE insulated PVC sheathed armoured Copper conductor cable of grade 1.1 KV, confirming to IS 7098 Part-I with upto date amendments etc. complete as required on surface .	44	16	Meter	200.00	3200.00

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Airports Authority of India, Engg. Elect. Wing,
एडिएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
J. S. Andhari (East) Mumbai - 400 099.

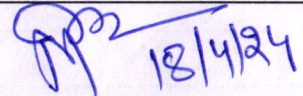
Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
75.00	Miscellaneous works					
76.00	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation etc including form work etc as required.	45	15	Cum	1000.00	15000.00
77.00	Excavation and refilling in soft soil including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres.	46	50	Cum	750.00	37500.00
78.00	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)	47	10	Cum	1000.00	10000.00
79.00	Dismantling of existing LT/HT cable from masonry duct/HUME/GI pipe. Upto 185 sq.mm.	48	75	Meter	160.00	12000.00
80.00	Miscellaneous Supply Items					
81.00	Supply of Following:	49				
82.00	Copper Plate of size 600 mm x 600 mm x 3.15 mm size Purity of the Copper Plates should not be less than 90%	49.1	11	Each	9000.00	99000.00
83.00	Copper Strip of size 25 mm x 3 mm, Purity of the Copper Plates should not be less than 90%	49.2	400	Meter	115.00	46000.00
84.00	Copper Wire (Non Stranded) of Dia not less than 4mm and Purity of the Copper Should not be less than 90%.	49.3	600	Meter	95.00	57000.00
85.00	Copper Rod (lightening Arrestor) 1 inch. Dia X 5 Feet and Purity of the Copper Should not be less than 90%.	49.4	7	Each	1200.00	8400.00
86.00	PVC Insulated Copper Cable of 50 mm Sq. Cross Section Purity of the Copper Should not be less than 90%..	49.5	100	Meter	1125.00	112500.00


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 Airports Authority of India, Engg. Elect. Wing,
 एडिप्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
 Complex, Andheri (East), Mumbai - 400 099.

Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
87.00	GI Pipe Class B of Size 2 inch thickness not less than 3mm.	49.6	23	Meter	450.00	10350.00
88.00	ISI mark CPVC Pipe of 40 mm OD x 3 mtr. (Long) x 5mm thickness	49.7	33	Meter	375.00	12375.00
89.00	Heavy Duty PVC pipe plastic Corrugated Hose of dia 2 inch	49.8	30	Meter	50.00	1500.00
90.00	Salt (about 1-3 cm granuals)	49.9	1320	Kg	20.00	26400.00
91.00	Charcoal (about 1-3 cm granuals)	49.1	1320	Kg	25.00	33000.00
92.00	Extension (4 x 5/15 Amp with individual switch and 30 meter long cable of size 3 X 1.5 sq mm) with 16A PlugTop.	49.11	2	Each	3800.00	7600.00
93.00	Self-Supporting Heavy duty Folding Aluminium ladder suitable for 6 ft height.	49.12	2	Each	4500.00	9000.00
94.00	Copper clad Rod of 10ft length and ¾ inch (diameter)	49.13	12	Each	2000.00	24000.00
95.00	PVC Insulated Copper Cable of size 3 x 2.5 sq.mm.	49.14	600	Meter	120.00	72000.00
96.00	Steel guide wire (Single/ multi strand) of dia 4 mm dia.	49.15	600	Meter	7.00	4200.00
97.00	Weather Proof CPVC Box of size 2 ft x 2ft x 8 inch with IP 65 protection	49.16	2	Each	600.00	1200.00
98.00	Mutli strand braided copper wire bare (copper rope) cross section area atleast 70 sq.mm.	49.17	100	Meter	1000.00	100000.00
99.00	FRP (Fibre reinforced Plastic) poles with 4 bolt mounting pedestals of 100 mm dia and thickness of the pole to be 5 mm and the length of the pole to be 4 meter.	49.18	8	Each	4000.00	32000.00
100.00	Stainless steel pulley with hook (for running at least 10 mm multi strand copper braided wire) with dia of the pulley to be 3 inch.	49.19	8	Each	350.00	2800.00


 वरिष्ठ विद्युत (अभि.-विद्युत)
 Sr. Manager (Engg.-Elect.)
 भारतीय विमानपत्तन प्राधिकरण, अभि. विद्युत विभाग,
 Airports Authority of India, Engg. Elect. Wing,
 एटिएस कॉम्प्लेक्स, अंधेरी (पूर्व), मुंबई - 400 099.
 ATS Complex, Andheri (East), Mumbai - 400 099.

Sl. No.	Item Description	Item Code	Quantity	Units	RATE (Excluding GST) in Rs. P	AMOUNT (Excluding GST) in Rs. P
1	2	3	4	5	6	7
101.00	Strain insulator Glass/ Ceramic with 6 inches holes so the FRP poles to pass through.	49.20	2	Each	10.00	20.00
102.00	Straining Screws with anchor bolts of atleast 1 ft length	49.21	6	Each	40.00	240.00
103.00	Steel guy wire (multi strand) of 8 mm dia.	49.22	100	Meter	110.00	11000.00
104.00	Bull dog grip for 8mm steel/copper rope.	49.23	50	Each	50.00	2500.00
105.00	GI ground fixing arrangement for 06 numbers FRP poles	49.24	8	Each	900.00	7200.00
106.00	12 mm OD SS full thread Stud of length 1 meter.	49.25	6	Meter	75.00	450.00
107.00	Anti static Mat	49.26	20	Sq. m	500.00	10000.00
108.00	Earth Distribution plate 50mm x 6mm (width and Thickness)	49.27	10	Meter	300.00	3000.00
(Total Rupees: Twenty Six Lakhs Ninety Three Thousand Five Hundred Sixty Five only) (Excluding GST)					Total Rs.	2693565.00
					Excluding GST	


 वरिष्ठ प्रबंधक (अभि.-विद्युत)
 Senior Manager (Engg.-E.)
 भा.वि.प्रा., एटीएस कॉम्प्लेक्स, मुंबई - 400 099
 A.A.I., ATS Complex , Mumbai - 400 099.

वरिष्ठ प्रबंधक (अभि.-विद्युत)
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