



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

स0: एएआई/एसएपी/ईजी.(वि.)/विविध विद्युत कार्य/डब्ल्यू ओ-151/2022-23/3575 दिनांक: 10.10.2022
Ref. No. AAI/SAP/Engg.(E)/Misc. Electrical Works/W.O-151/2022-23 3583 Dt. 10.10.2022

सेवा में,

मै. क्रिशसन्स इंटरनेशनल इंजीनियर्स
एंड कंसल्टेंट्स (आई) प्राइवेट लिमिटेड,
304, वेलेन्टाइन टावर, फिल्म सिटी रोड,
मलाड ईस्ट, मुंबई - 400097

M/s Krishsons International
Engineers and Consultants (I) Pvt.
Ltd., 304, Velentine Tower, Film city
Road, Malad East, Mumbai - 400097

विषय: अन्य विविध विद्युत कार्य। उपशीर्षक: सफदरजंग हवाई अड्डे पर लैंडिंग टी, डब्ल्यूडीआई, एसपीडी और अन्य विद्युत कार्यों आदि का एसआईटीसी।

Subject:- Misc. other electrical works. SH: SITC of Landing T, WDI, SPD and other Electrical works etc. at Safdarjung Airport.

संदर्भ i) आपकी खोली गई ई-निविदा दिनांक 30.09.2022. (Bid Invitation No. 2022_AAI_123761_1)

Ref: Your Price-bid opened on 30.09.2022.

महोदय,

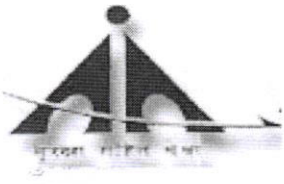
1. उपरोक्त कार्य हेतु आपका टेंडर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए आइटम मूल्यों पर आपका टेंडर कुल **₹ 41,88,320/-** (मात्र इकतालीस लाख अठासी हजार तीन सौ बीस रुपये) है जो कि अनुमानित लागत राशि **₹ 57,50,060/-** से **27.16%** कम है (जी.एस.टी. को छोड़कर)।

Your tender 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 **Rs. 41,88,320/-** (Rupees Forty One Lakhs Eighty Eight Thousand Three Hundred & Twenty Only) which is **27.16%** below from the estimated cost put to tender of **Rs. 57,50,060/-** (excluding GST).

2. सहायक महा प्रबंधक अभियांत्रिकी (विद्युत), भारतीय विमानपत्तन प्राधिकरण, सफदरजंग हवाई अड्डा, नई दिल्ली 110003, इस कार्य के इंजीनियरिंग प्रभारी होंगे। आपसे अनुरोध है कि आप संविदा करार पर हस्ताक्षर करने एवं उसे पूरा करने हेतु **25.10.2022** तक सहायक महाप्रबंधक (अभि.-वि.), भारतीय विमानपत्तन प्राधिकरण, सफदरजंग हवाई अड्डा, नई दिल्ली-110003 के कार्यालय में उपस्थित हों। संविदा करार **Rs.100/-** (मात्र सौ रुपये) के गैर न्यायिक (नॉन-जूडिशियल) स्टॉप पेपर पर बनाया जाएगा तथा स्टॉप पेपर की लागत आपके द्वारा वहन की जाएगी।

Asstt. Gen. Manager Engg (Electrical), Safdarjung Airport, New Delhi, shall be the Engineer-in-charge of the work. You are requested to attend the office of the Asstt. G.M. Engg (Elect), AAI, Safdarjung Airport, New Delhi by **25.10.2022** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value of **Rs.100/-** (Rupees one hundred only) and the cost of the stamp paper shall be borne by you.

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3. आपकी निविदा के साथ प्राप्त Rs. 1,24,048/- (मात्र एक लाख चौबीस हजार अड़तालीस रुपये) की अग्रिम धन राशि को संविदा दस्तावेज के पृष्ठ एन आई टी-3 पर एन.आई.टी. के खण्ड-16 के अनुसार प्रतिभूति जमा के रूप में प्रयुक्त तथा संपरिवर्तित किया जाएगा। कृपया इस पत्र के जारी होने की तिथि से 30 दिनों के भीतर शेष प्रतिभूति जमा के रूप में Rs. 2,94,784/- (मात्र दो लाख चौरानवे हजार सात सौ चौरासी रुपये) जमा करें अन्यथा इस राशि की कटौती संविदा कागजात के पृष्ठ जी सी सी- 16 पर जी सी सी के खण्ड-1A के अनुसार आपके चालू बिलों से कर ली जाएगी।

The earnest money amount Rs. 1,24,048/- (Rupees One Lacs Twenty Four Thousand and Forty Eight Only) received along with your tender will be treated and converted as part of security deposit as per conditions at clause no. 16 on page no. NIT- 3 of contract document. Please deposit Rs. 2,94,784/- (Rupees Two Lacs Ninety Four Thousand Seven Hundred and Eighty Four Only) towards security deposit within 30 days from the date of issue of this letter failing which, the same will be deducted as per condition of clause no.- 1A at page no. GCC- 16 of the contract document.

4. आप से अनुरोध है कि आप संविदा श्रम (विनियम एवं उन्मूलन) अधिनियम 1970 तथा संविदा श्रम (विनियम एवं उन्मूलन) केन्द्रीय नियम 1971 एवं न्यूनतम मजदूरी अधिनियम के प्रावधानों और केन्द्रीय व राज्य सरकारों के तदसंबंधी नियमों का अनुपालन करें।

You are requested to comply with the provision of contract labour (Regulation & abolition) Act of 1970 and contract labour (Regulation & Abolition) Central Rules 1971 and minimum wages Act and Rules there of Central and state Govt.

5. आपको प्रबंधक (विधुत) भारतीय विमानपत्तन प्राधिकरण, सफदरजंग हवाई अड्डा, नई दिल्ली से तत्काल संपर्क करने का भी निर्देश दिया जाता है। आपको कार्यस्थल (साइट) सौंपने का कार्य उनके द्वारा ही किया जाएगा।

You are also directed to contact Manager (Engg.-E), Airports Authority of India, Safdarjung Airport, New Delhi, immediately who will arrange to hand over the site to you.

6. कृपया नोट करें कि कार्य पूरा करने के लिए आपको 06 छह महीने, का समय प्रदान किया जाता है। जोकि दिनांक 20.10.2022 से प्रारम्भ माना जाएगा।

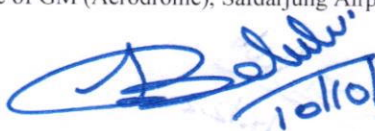
Please note that the time allowed for carrying out the work shall be 06 (Six) months and same shall be reckoned from 20.10.2022.

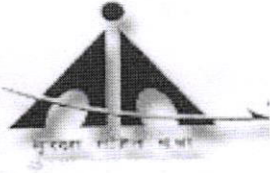
7. ई-निविदा में उठाए गए सभी प्रश्न, स्पष्टीकरण इत्यादि तथा उनका भा.वि.प्रा द्वारा दिया गया उत्तर भी अनुबंध का भाग होगा।

All queries, clarifications etc. raised during e-tendering process and replies thereof shall also form part of the agreement.

8. संविदा के सम्बन्ध में भविष्य में किसी भी प्रकार का पत्र व्यवहार इंजीनियर-प्रभारी के नाम से किया जाएगा।

Any further correspondence in connection with the contract shall be addressed to the Engineer In-Charge.


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9. कृपया पत्र की पावती भेजें तथा साथ में संलग्न इस पत्र की दूसरी प्रति पर स्वीकारोक्ति के रूप विधिवत् हस्ताक्षर करके हमें वापस भेजें।
Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after duly signing it to the undersigned as a token of acceptance.
10. ठेके की त्रुटि दायित्व अवधि एक साल है जोकि कार्य समाप्ति की तिथि से गिना जाएगा।
The defect liability period is 01 (One) Year after actual date of completion.
11. यदि कोई विसंगति पाई जाती है तो अंग्रेजी भाषा ही मान्य होगी।
In case of any discrepancy, English version will be taken as correct.
12. जीएसटी प्रावधानों का अनुपालन न करने और किसी इनपुट क्रेडिट के अवरुद्ध होने की स्थिति में एएआई की क्षतिपूर्ति करना आपकी जिम्मेदारी होगी।
In case of non-compliance of GST provisions and blockage of any input credit, it shall be your responsibility to indemnify AAI.
13. जीएसटी को छोड़कर दरों में सभी कर शामिल हैं। हालांकि, जीएसटी, जैसा लागू हो, अनुबंध के नियमों और शर्तों के अनुसार वैध जीएसटी चालान के खिलाफ एजेंसी द्वारा एएआई को प्रदान की गई किसी भी कर योग्य आपूर्ति/सेवाओं/निर्माण के लिए ठेकेदार को भुगतान किया जाएगा।
The rates are inclusive of all taxes but excluding of GST. However, GST, as applicable, shall be paid to the contractor for any taxable supply/ services/ construction rendered by the agency to AAI against a valid GST invoices as per terms and conditions of the contract.
14. सभी इनपुट क्रेडिट आपके द्वारा एएआई को दिए जाएंगे।
All input credits will be passed on to AAI by you.

भवदीय

Yours faithfully

(लखनपाल सिंह सौलंकी)/(L.P.S. Solanki)

सहायक महाप्रबंधक अभि.(वि.) / Asstt. Gen. Mgr. Engg (E)

अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर एवं तरफ से

For & on behalf of Chairman, Airports Authority of India

संलग्न: शडयूल ऑफ कुएंन्टिटीज

Encl: Schedule of Quantities



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N.O.O/
Copy to

1. महाप्रबंधक (अभि.), एमआईएस एवं एसटीडी, एएआई, रंगपुरी, नई दिल्ली।
2. विमानपत्तन निदेशक, एएआई, सफदरजंग हवाई अड्डा, नई दिल्ली।
3. संयुक्त महाप्रबंधक(अभि०-विद्युत), एएआई, आईएमयू, सीएचक्यू, नई दिल्ली।
4. सहायक महाप्रबंधक (अभि०-सिविल), एएआई, सफदरजंग हवाई अड्डा, नई दिल्ली।
5. सहायक महाप्रबंधक (वित्त), एएआई, सफदरजंग हवाई अड्डा, नई दिल्ली।
6. संबंधित फाइल।
7. कार्य आदेश।
8. एग्रीमेंट फाइल।


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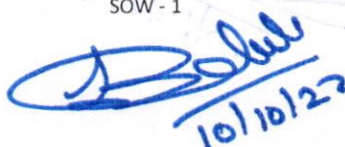
(लखनपाल सिंह सौलंकी) / (L.P.S. Solanki)
सहायक महाप्रबंधक अभि.(वि.) / Asstt. Gen. Mgr. Engg (E)
अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर एवं तरफ से
For & on behalf of Chairman, Airports Authority of India

Schedule of Work

Name of Work : Misc. other electrical works. SH: SITC of Landing T, WDI, SPD and other Electrical works etc. at Safdarjung Airport.

S. No.	ITEM DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
1	Supply, installation, testing & commissioning of frangible & illuminated landing direction indicator (Landing H) conforming to ICAO Annex 14, volume I and suitable for operation on 230 V, 50 Hz, single phase AC supply and consist of following complete as required. (a) Alluminium frame alongwith suitable mounting structure. Dimension shall confirm to ICAO Annex 14 and frangibility of structure shall confirm to ICAO Annex 14 & Aerodrome design manual part-6/FAA. The structure shall be powder coated with preperably aviation yellow paint. (b) 33 nos. 9 W nominal capacity LED lamps alongwith Lamps mounting arrangement for outdoor conditions. (c) Landing T indication by illumination and changeover facility. (d) Control box, internal copper wiring, provision for remote control operation. (e) Providing civil foundations for each legs along with MS anchor base plate as per directions of E-I-C. (f) Any other component required for operation of landing direction indicator.	Job	1	100000.00	100000.00
2	Supply, Installation, Testing & Commissioning of frangible & externally illuminated Wind Direction Indicator conforming to ICAO & CAR standards and suitable for operation on 230 V, 50 Hz single phase supply and consist of following as required: (a) 4.5 mtr high FRP frangible pole/mast of red/white colour. The frangibility shall conforming to ICAO Annex 14 & Aerodrome design manual part-VI/FAA guidelines. (b) Wind sock cone should have a length of not less than 3.60 m and diameter, at larger end, of not less than 0.90 m as per technical specifications. (c) Illuminating indicator with Four nos. 20 watt LED lamps with lamps mounting arrangement for outdoor conditions. (d) One no. LED aviation obstruction light having aluminium cast body and red polycarbonate dome, internal wiring, provision for remote control operation. (e) Providing and laying 1:2:4 Cement Concrete foundation for installation of WDI and casting pedestal all around upto 7.5 m radius with 100mm thick 1:2:4 cement concrete & neat finish top surface as per OEM recommendations & as per direction of EIC. (f) Any other component required for operation of WDI.	Job	1	160000.00	160000.00
3	Providing and fixing of 125 Amp, 4 Pole, Automatic Transfer Switch (ATS) in sheet steel enclosure and terminal spreaders including cable end box on both sides (height of each end box shall be 450mm), making connections, etc. as required. Make : Havells, Cat. No. IHYFCDE125 or equivalent.	Each	1	48000.00	48000.00
4	Supply of following sizes of 1.1kv grade multicore Aluminium conductor XLPE insulated PVC sheathed armoured cable (as per IS : 7098:1988 with upto date amendments) complete as required as per specifications.				

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S. No.	ITEM DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
4.01	4 core, 6 Sqmm, Aluminium cable	Mtr.	200	110.00	22000.00
4.02	4 core, 16 Sqmm, Aluminium cable	Mtr.	550	142.00	78100.00
4.03	3.5 core, 35 Sqmm, Aluminium cable	Mtr.	200	200.00	40000.00
4.04	3.5 core, 120 Sqmm, Aluminium cable	Mtr.	2000	580.00	1160000.00
5	Supply & Laying of 160 mm dia (PE-80, PN-10) HDPE pipe as per IS 4984 through trenchless technology by drilling the bore of suitable dia directly in ground upto the depth of 3 meters from the ground level including necessary joining, coupling, splicing etc complete as required.	Mtr.	1250	1800.00	2250000.00
6	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.				
6.01	Upto 35 sq. mm	Mtr.	33	300.00	9900.00
6.02	Above 95 sq. mm and upto 185 sq. mm	Mtr.	36	315.00	11340.00
7	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 pipe as required.				
7.01	Upto 35 sq. mm	Mtr.	500	15.00	7500.00
7.02	Above 95 sq. mm and upto 185 sq. mm	Mtr.	1550	20.00	31000.00
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.				
8.01	Upto 35 sq. mm (clamped with 1mm thick saddle)	Mtr.	200	40.00	8000.00
8.02	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Mtr.	400	50.00	20000.00
9	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
9.01	Upto 35 sq. mm	Mtr.	100	30.00	3000.00
9.02	Above 95 sq. mm and upto 185 sq. mm	Mtr.	20	50.00	1000.00
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.				
10.01	4 X 6 sq. mm (25mm)	Set	4	225.00	900.00
10.02	4 X 16 sq. mm (28mm)	Set	8	270.00	2160.00
10.03	3½ X 35 sq. mm (32mm)	Set	6	400.00	2400.00
10.04	3½ X 120 sq. mm (45mm)	Set	12	660.00	7920.00

[Signature]
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S. No.	ITEM DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
11	Design, manufacture, supply, installation, testing & commissioning of canopy type Outdoor feeder pillar Junction Box Panel, with cable alley on both sides, size 400H x 600L x 300D (height excluding canopy), made of 2 mm thick sheet steel for frame work and covers, 3mm thick for gland plates, totally enclosed, IP 54, free standing, floor mounting, bottom cable entry, suitable for termination of 3.5Cx120sq mm AL armoured cable, dust and vermin proof, including cleaning & finishing complete with powder coating, suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC system, with high conductivity FP Aluminium 320A bus bar links. DMC/SMC busbar supports, and supply & fixing of stand made out of 50x50x6 mm angle iron of 600mm size in 1:2:4 cement concrete. Entire panel shall have a common GI earthbar of size 25mm x 5 mm at the rear with 2 Nos. earth studs.				
11.01	A. Busbar:- (i) 1 set of 320 Amps, 415 V, Four Pole Aluminium Busbars with Heat shrinkable color coded insulation sleeves. (iii) 1 Set Indication Lamps, LED type, R,Y,B each with 2 Amp. SP MCB.	Job	4	14000.00	56000.00
12	Supply, Installation, Testing & Commissioning of (1P+NPE) Lightning current & Surge Protection Device at DB Application-optimised and prewired spark-gap-based type 1 + type 2 combined lightning current and surge arrester. Nominal a.c. voltage (UN) 1 phase, 230 (50 Hz). Operating state / fault indication. High follow current extinguishing capacity (Ifi = 50 kArms). Lightning impulse current (10/350 µs) [L-N]/[N-PE] (Iimp)=25KA/50KA. Nominal discharge current (8/20 µs) [L-N]/[N-PE] (In)=25KA/50KA with facility of remote monitoring. Temporary overvoltage (TOV) [L-N] (UT) – Characteristic - 440 V / 120 min. – withstand. The device shall be certified by KEMA or VDE or NABL lab as per IEC 61643-11:2011 or or EN 61643- 11:2012 with transparent enclosure IP65.	Job	2	20000.00	40000.00
13	Supply, Installation, Testing & Commissioning of (3P+NPE) Lightning current & Surge Protection Device at mains LT panel (3 phase, 415 V) combined lightning current and surge arrester, type 1+ type 2. The device shall be non-exhausting metal encapsulated, spark gap based technology and tested as per latest and valid IEC 61643-11:2011 or EN 61643-11:2012 standards. It shall be capable to discharge Lightning current (10/350µs) of 25kA/ 50kA, Nominal discharge current (8/20 µs)of 25kA/50kA and voltage protection level of device shall be ≤ 1.5 KV including inbuilt fuse for L-N. Follow current extinguishing capability [L-N]/[N-PE] : 50kArms / 100Arms. The device shall have built in fuse and operation of SPD shall be independent of Line current for L-N SPD. The short circuit with stand capability of the device shall be 50 KArms for L-N SPD. The device shall have indication for both the states ('healthy' and 'failure') on L-N and N-PE. The device shall be certified by KEMA or VDE or NABL lab as per IEC 61643-11:2011 or or EN 61643-11:2012 for testing of all parameter at 10/350 µs and 8/20 µs with transparent enclosure IP65.	Job	2	28000.00	56000.00
14	Providing & fixing in position 1000 mm wide , Electrical Insulating Mats as per IS 15652:2006, 2mm thick, suitable upto 3.3 KV, fire retardant,no effect of acids, alkalies and transformer oils, moisture proof, high tensile strength and texture finish / cloth impression (Anti slip , marking on top) .	Mtr.	25	600.00	15000.00

S. No.	ITEM DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
15	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	50	100.00	5000.00
16	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Set	5	5000.00	25000.00
17	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. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr.	50	100.00	5000.00
18	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Mtr.	50	100.00	5000.00
19	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Mtr.	50	22.00	1100.00
20	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	20	100.00	2000.00
21	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required.	Cum	3	5000.00	15000.00
				Total Rs.	4188320.00
				Say Rs.	4188320.00

(Rupees Forty One Lakhs Eighty Eight Thousand Three Hundred and Twenty Only)


10/10/22

(L.P.S.Solanki)
AGM Engg.(E)
Sadarjung Airport