



भारतीय विमानपत्तनप्राधिकरण

बिरसामुण्डाविमानपत्तन, राँची- 834002

AIRPORTS AUTHORITY OF INDIA

BIRSA MUNDA AIRPORT. RANCHI - 834002

संख्या: भाविप्रा/आर.सी./सं.महाप्र.(अभि.-वि.)/डब्लु.ओ.-07/2022-23/47-83

दिनांक: 27.09.2022

सेवा में,

M/s Techno Electricals,
2/65, Uday Park Society,
Refinery Road, Gorwa,
Vadodra - 390016

विषय: "Replacement and Shifting of PAPI Set of both sides of runway at B.M.Airport, Ranchi."

संदर्भ:(i) CPP Portal Bid No: 2022_AAI_122131_1

(ii) Your Price Bid on CPP portal - 12.08.2020

महोदय,

- उपर्युक्त कार्य हेतु आपकी निविदा अध्यक्ष, भा0वि0प्रा0 की ओर से एतद्वारा इस आधार पर स्वीकार की जाती है कि आपके द्वारा उद्धृत आइटम दरों पर कुल योग रु0 31,09,420/- (रु0 एकतीस लाख नौ हजार चार सौ और बिस रुपया मात्र) जो कि 28.60% न्यायसंगत दर रु0 43,55,195/- (रु0 तैतालीस लाख पचपन हजार एक सौ और पनचानबे रुपया मात्र) से कम है। (Your tender for the work mentioned above hereby accepted on behalf of the Chairman, AAI, at the item rates quoted by you totalling to **Rs. 31,09,420/- (Rupees Thirty One Lakh Nine Thousand Four Hundred and Twenty Only)** which is 28.60% below from the justified cost **Rs. 43,55,195/- (Rupees Forty Three Lakh Fifty Five Thousand One Hundred and Ninety Five Only)**).
- संयुक्त महाप्रबंधक(अभि.-विद्युत), भा0वि0प्रा0 बिरसा मुण्डा हवाई अड्डा राँची कार्य के प्रभारी अभियंता होंगे। आप कृपया अपने प्राधिकृत एवं संविदा-करार पर हस्ताक्षर करने में सक्षम प्रतिनिधि को हस्ताक्षर एवं करार पूरा करने हेतु संयुक्त महाप्रबंधक(अभि.-विद्युत) भारतीय विमानपत्तन प्राधिकरण, बिरसा मुण्डा हवाई अड्डा, राँची के कार्यालय में 12.10.2022 तक भेजे। संविदा करार आप द्वारा उपलब्ध कराए गए 100/- रु (सौ रुपया) के गैर अदालती पक्के कागज पर सम्पादित किया जाएगा। (Jt.GM (Engg.-E), AAI, BM Airport, Ranchi, shall be the Engineer-in-charge of the work. You are requested to depute your accredited representative empowered to sign the contract agreement on your behalf to attend the office of Jt.GM (Engg.-E), Airports Authority of India, BM Airport, Ranchi by **12.10.2022** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- and cost of the stamp paper shall be borne by you.)
- संविदा कागजात के पृष्ठ e-NIT-2 के अनुसार आपकी निविदा के साथ प्राप्त रु0 87,104/- (रु0 सतासी हजार एक सौ और चार रुपया मात्र) की बयाना राशि को प्रतिभूति जमा राशि में परिवर्तित कर दी जायेगी। कृपया इस पत्र के जारी होने की तिथि से 15 दिनों के भीतर प्रतिभूति जमा राशि शेष रु0 2,23,838/- (रु0 दो लाख तैईस हजार आठ सौ और अरतीस रुपया मात्र) का बैंक गारन्टीजमा करें, बैंक गारन्टी, कॉपरेटिव बैंक और ग्रामीण बैंक को छोड़कर किसी भी अनुसूचित बैंक के द्वारा जारी किया हुआ जमा करें, अन्यथा संविदा कागजात के पृष्ठ GCC-Page no.-16 पर दर्ज-1(ए) के अनुसार यह राशि आपके चालू बिलों से काट ली जाएगी। बैंक गारन्टी की वैधता कार्यपूरा होने की तारीख से 12 महीने होगी। As per page e-NIT -2 of the contract documents, Earnest Money amount of **Rs. 87,104/- (Rupees Eighty Seven Thousand and One Hundred and Four Only)** received along with your tender to be converted as part of security deposit. Please submit Bank Guarantee against Security Deposit of balance **Rs. 2,23,838/- (Rupees Two Lakh Twenty Three Thousand Eight Hundred and Thirty Eight Only)** towards security deposit within 15 days from the date of issuing of this letter, failing which, the same will be deducted from your running bills as per clause 1(A) on page GCC-Page no.-16 of the contract documents. The Bank Guarantee shall be submitted issued from any schedule bank but not Co-operative or Gramin Bank. The validity of BG shall be 12 months from the date of actual completion of work.
- आपसे अनुरोध है कि आप संविदा श्रम (नियमन व समापन) अधिनियम-1970 के प्रावधानों तथा संविदा श्रम (नियमन व समापन) केन्द्रीय नियम, 1971, एवं केन्द्र व राज्य सरकारों के तत्सम्बन्धी न्यूनतम मजदूरी अधिनियम व नियमों का पालन करें (You are requested to comply with the provisions of Contract Labour (Regulation & Abolition) Act. of 1970 and Contract Labour (Regulation & Abolition) Central Rules - 1971 & Minimum Wages Act., & rules thereof of Central and State Governments).



भारतीय विमानपत्तनप्राधिकरण

बिरसामुण्डाविमानपत्तन, राँची- 834002

AIRPORTS AUTHORITY OF INDIA

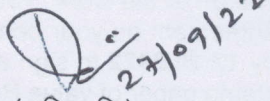
BIRSA MUNDA AIRPORT. RANCHI - 834002

5. आपको यह निर्देश भी दिया जाता है कि प्रबंधक (अभि.-विद्युत), भारतीय विमानपत्तन प्राधिकरण, बिरसा मुण्डा हवाई अड्डा, राँची से शीघ्र संपर्क करें, जो आपको कार्यस्थल सौंपने की व्यवस्था करेंगे। कृपया यह नोट किया जाए कि निविदा में की गई प्रविष्टि के अनुसार काम करने की अवधि (03) तीन महीना है, जिसकी गिनती इस पत्र के जारी होने के दसवें दिन के बाद से शुरू हो जाएगी। (You are also directed to contact the Mgr. (E-E), Airports Authority of India, BM Airport, Ranchi who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work as entered in the tender is (03) **Three Months**, which shall be reckoned after 10 days from the date of issue of this letter).
6. आपकी निविदा एवं इस कार्य के संदर्भ में उल्लिखित पत्र, इस अवार्ड पत्र सहित करार का हिस्सा होंगे। कृपया नोट करें कि दोष दायित्व अवधि कार्य पूरा होने की तारीख से (12) बारह महीने होगी। (Your tender mentioned above under the reference for this work shall form part of the agreement along with this awarded letter. Please note that the defect liability period shall be (12) **Twelve Months** from the actual completion of work.
7. भविष्य में संविदा से संबंधित कोई भी पत्राचार संयुक्त महाप्रबंधक (अभि.-विद्युत), भारतीय विमानपत्तन प्राधिकरण, बिरसा मुण्डा हवाई अड्डा, राँची से किया जाए। (Any further correspondence in connection with the contract shall normally be addressed to the Jt.GM (Engg.-E), BM Airport, Ranchi).
8. एजेंसी द्वारा उद्धरण दर/रकम जिसमें जी.एस.टी. असम्मिलित है और जी.एस.टी. बिल प्रस्तुत करने के बाद ही वास्तविक आधार पर प्रतिपूर्ति की जायेगी। Rate/Amount Quoted by Agency is exclusive of GST and the same shall be reimbursement on actual basis on production of GST invoice.
9. अन्य सभी नियम और शर्तें यथावत एन. आई. टी के अनुसार रहेगी। The rest all the terms & conditions shall be as per NIT.
10. कृपया पावती भेजें। (Please acknowledge the receipt of the same.)

धन्यवाद,

संलग्न :-मदों की सूची-Annexure - I (Page No. 1 to 2)

भवदीय

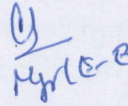

23/09/22

संयुक्त महाप्रबंधक (अभि.-वि.)/Jt.GM(E-E)

अध्यक्ष की ओर से और उनके लिए /On behalf of the "Chairman"

भा.वि.प्रा. /AAI, बिरसा मुण्डा एयरपोर्ट / BM Airport

राँची /Ranchi-834 002


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AIRPORTS AUTHORITY OF INDIA
(ELECTRICAL ENGINEERING WING)
SCHEDULE OF QUANTITY

Name of work:- Replacement and Shifting of PAPI Set of both sides of runway at B.M.Airport, Ranchi.

Item No.	Description of item	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Supply of 03 lamp, 04 leg, Precision Approach Path Indicator Set comprising of 04 nos. of PAPI units, totally corrosion proof material, totally enclosed dust and vermin proof IP 54 enclosure made of phosphate aluminum alloy with powder coated painting in aviation yellow, frangible coupling at top and bottom of all legs, aluminum alloy vertically adjustable legs, checking stick, checking stick base, spirit level, clinometer, PAPI foundation frames, all accessories i/c three sets of anodized aluminum reflectors, toughened front glass, Red dichroic filter, Air filter, lamp holder, three/four numbers 6.6 amp. 200w halogen lamp in each unit, heat sink etc complete as required designed for wind velocity withstanding capacity not less than 480km/h as per ICAO & FAA standard with latest amendment.	1	Set	510000.00	510000.00
2	Installation testing and commissioning of new/ dismantled PAPI set of four units with all accessories i/c checking stick base, foundation work and ground calibration as per latest ICAO standard.	2	Set	65000.00	130000.00
3	Dismantling of existing PAPI set comprising of 04 PAPI Units and handing over to AAI, Ranchi, Electrical store.	2	Set	5000.00	10000.00
4	Supply of C.I. Transformer housing box, water tight round type metal container of outside dia. of 330 mm, height 450 mm made of 10 mm thick cast iron moulding all round except on top surface which is 15 mm thick and having clear holes at the two side walls suitable to receive 50 mm dia HDPE/ G.I. pipes and 6 nos. M 10 tapped hole for receiving base plate at the top as required. The housing box shall be provided with base plate, base plate gasket and M-10 SS bolts (set of 6).	36	Each	5800.00	208800.00
5	Supply of 5 KV grade 50 HZ series type 200 W, 6.6/6.6 Amp. isolating Transformers, encapsulated in polyester resin, finally with neoprene rubber with primary and secondary connections as required.	26	Each	4800.00	124800.00
6	Supply of following dia size HDPE pipe of PN-6, PE-100 grade as per relevant specification and approved make of AAI.				
	(a) 50 mm dia HDPE pipe	2000	Mtr.	110.00	220000.00
7	Supply of Plug and Receptacle of 5 KV grade of Type - I, class 'B' Essna connector kit for following size copper conductor AFL cable etc. as required.				
	(a) 6 sqmm.	50	Each	450.00	22500.00
8	Supply of Two pin Secondary plug assembly for PAPI (2.5 mtr long).	32	Each	900.00	28800.00
9	Supply of following Size PVC insulated & PVC Sheathed Stranded copper conductor single core AFL cable of 5 KV grade conforming to IS 1554 Part-II with upto date amendments as required and conforming to particular specifications.				
	(a) 1 core x 6 sqmm GLF Cable	1500	Mtr.	110.00	165000.00
	(b) 1 core x 16 sqmm GLF Cable	1500	Mtr.	210.00	315000.00
10	Laying of 1 no. 1 x 6 sqmm./ 1 X 16 sqmm. PVC insulated and PVC sheathed Copper conductor Airfield lighting cable of 5 KV grade in the existing RCC / HUME / STONEWARE / METAL/ HDPE pipe as required.	1700	Mtr.	18.00	30600.00
11	Laying of HDPE pipe of 50 mm dia direct in ground including excavating the earth and laying of pipe in trench in such a way that the top of pipe shall not be less than 750 mm below the ground level and also refilling with excavated soil etc. complete as required.	1700	Mtr.	108.00	183600.00
12	Making field connections by crimping 6 sqmm./16 sq.mm. plug & receptacle with existing 6 sqmm./16 sq.mm. single core PVC insulated and PVC sheathed AFL copper conductor cable including filling the gap with water sealant material, applying HT tape and PVC insulation tape complete as required.	56	Each	120.00	6720.00
13	Installation, Testing & Commissioning of C.I. transformer housing boxes after excavating the soil and by providing and laying in position cement concrete 1:3:6 (1 cement: 3 Coarse sand: 6 graded stone aggregate 20 mm nominal size) 150 mm thick all around the housing box except the top complete as specified and as per the direction of engineer-in-charge.	36	Each	3000.00	108000.00
14	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 etc. with charcoal / coke and salt as required.	6	Each	8000.00	48000.00
15	Supplying and laying 25 mm X 5 mm GI strip in 40 mm dia GI pipe from earth electrode, including connection with G.I. nut, bolt, spring, washer excavation and refilling etc. as required.	18	Mtr.	600.00	10800.00

Item No.	Description of item	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
16	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	60	Mtr.	250.00	15000.00
17	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	1700	Mtr.	25.00	42500.00
18	Supply of XLPE insulated and PVC sheathed galvanised flat steel strip armoured aluminum conductor cable of grade 1.1 KV, of following size confirming to IS: 7098/1/1988 with upto date ammendments etc. complete as required.				
	(i) 3½ X 35 sq. mm	1000	Mtr.	210.00	210000.00
	(ii) 3½ X 300 sq. mm	210	Mtr.	1200.00	252000.00
19	Constructing brick masonry manhole chamber of min. inner dimension 0.5 m x 0.5 m x 0.5 m with medium class bricks in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab of 100 mm thick with mix 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone of aggregate 20mm nominal size), foundation concrete 1: 3: 6 mix (1 cement : 3 coarse sand : 6 graded stone of aggregate 40mm nominal size) in side plastering 15 mm thick with cement plaster 1:4 (1 cement : 4 fine sand), 01 nos of RCC slab/covers should be provided in a MS angle frame work of size (40m x 40 x 3mm) at the 04 nos. of edges on top and bottom of the slab including MS handle for the Slab. The concrete manhole chamber shall be constructed after excavation for necessary foundation including dressing of sides, ramming of bottoms and filling available excavated earth (excluding rock) in the sides of foundations etc. and consolidating each deposited layer by ramming and watering and disposal of surplus excavated soil as directed within a lead of 50 meters.	10	Each	13000.00	130000.00
20	Supply of Thermoplastic PC - GFS Polycarbonate weatherproof Junction Box having IP66/67/69 degree of protection with multi-level knockouts for cable glands for entry and exit of 3.5 X 35 sqmm armoured cable. The box should be provided with 02 nos. of cable glands. The pre-moulded knockouts shall be available on all the four sides of the junction box to enable cable entries from any direction. The junction box shall have an optional cable entry at the bottom/rear side of the box via pre-molded knockout to enable pole mounting option. Lid fasteners shall not have screws but shall be with quarter turn locking knobs - which is well visible (open -locked), and they will be sealable without any accessories. The junction box shall have elongated holes inside them for wall mounting provision however external brackets for wall fixing must be included and integrated inside. The box shall have a labeling system optional for circuit description. In the event of formation of condensed water, the junction box shall have a minimum of two condensation knock-outs inside to ensure optimum safe performance. Retaining straps shall be provided for the lids to prevent the lids from falling or losing. The junction box shall be provided with the following additional requirements : - (i) 35 Sq.mm Terminal Block - 6 nos. (ii) 4 Sq. mm Terminal Block - 1 no.	50	Each	2700.00	135000.00
21	Dismantling of existing Perimeter/ wall light pole from the operational area i/c disconnection from the circuit and handing over to AAI store.	30	Each	700.00	21000.00
22	ITC of existing perimeter light pole in operational area by proper excavation, breaking and removing concrete, fixing the poles with proper foundation in position cement concrete 1:3:6 (1 cement: 3 Coarse sand: 6 graded stone aggregate 20 mm nominal size) of adequate strength, , installing junction box by providing proper clamps, i/c making necessary connections with cable, proper termination of cable as required at site and as per instruction of EIC.	20	Each	3200.00	64000.00
23	ITC of existing signage in operational area by making proper foundation in position cement concrete 1:3:6 (1 cement: 3 Coarse sand: 6 graded stone aggregate 20 mm nominal size) of adequate strength, making necessary connections with cable, proper termination of cable as required at site and as per instruction of EIC.	8	Each	5600.00	44800.00
24	Lettering of 4 cm with approved synthetic red enamel paint on runway fittings.	2000	Each	20.00	40000.00
25	Providing and laying in position cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) including form work etc as required.	5	Cum	6500.00	32500.00
TOTAL					3109420.00

Note : Rate is Comprehensive and excluding of GST.

Say Rs. 31,09,420/- (Rupees Thirty One Lakh Nine Thousand Four Hundred and Twenty Only)

Jt. GM (E-E)
AAI, B.M.Airport, Ranchi

CJ
Hmt(E-E)

27/09/22