



सं.सं: भा.बि.प्रा./पू.क्षे./कोल/ईई/उप-प्रभाग-I/W-C-14/2024-25/ **268**
Ref. AAI/ER/Kol/EE/Sub.Div.-I/W-C-14/2024-25/

दिनांक: 28/11/2024
Date: 28/11/2024

सेवा में / To,
M/s Shiva Enterprises
F-42, Sahara Trade Centre
Faizabad Road, Indira Nagar,
Lucknow - 226016

विषय / Sub :- परिचालन क्षेत्र, एनएससीबीआई हवाई अड्डे, कोलकाता के अंदर ईएलडीआईएस रडार पर 320 केवीए डीजी सेट और एएमएफ पैनल का प्रतिस्थापन।

Replacement of 320 KVA DG set and AMF panels at ELDIS Radar inside Operational area, NSCBI Airport, Kolkata.

संदर्भ / Ref.- (i) E-Tender ID No.: - **2024_AAI_208829_1**
(ii) E-Tender Financial Bid opened on 13.11.2024

Dear Sir(s),

- उपर्युक्त कार्य हेतु आपका प्रस्ताव अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गए मद मूल्यों पर आपकी ऑफर राशि कुल **₹71,30,230.00** (रूपये इकहत्तर लाख तीस हजार दो सौ तीस मात्र) जीएसटी के सिवा, जो कि न्यायोचित निविदा राशी **₹1,10,61,119.00** से **35.53%** (पैंतीस दशमलव पांच तीन प्रतिशत) नीचे है।

Your offer for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, for the sum of **₹ 71,30,230.00** (Rupees Seventy One Lakh Thirty Thousand Two Hundred Thirty only) excluding GST, which is **35.53% (Thirty Five Point Five Three Percent)** below the Justified Cost of **₹ 1,10,61,119.00** (without GST).

- सहायक महाप्रबंधक (अभि. -वि.), पू.क्षे., भा.वि.प्रा. ने. सु. च. बो. अ. हवाई अड्डा, कोलकाता 700052 इस कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आपकी ओर से आप अथवा आपके द्वारा अधिकृत प्रतिनिधि नियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक **08.12.2024** तक सहायक महाप्रबंधक (अभि-वि.), पू.क्षे., भा.वि.प्रा. ने. सु. च. बो. अ. हवाई अड्डा, कोलकाता 700052 के कार्यालय में करारनामा पर हस्ताक्षर करने एवं उसको पूरा करने हेतु उपस्थित हों। ठेके का करारनामा रु. 100/- (रु. एक सौ) मात्र के नॉनज्यूडीशियल स्टैम्प पेपर पर निष्पादित किया जाएगा तथा पेपर का खर्च आपके द्वारा वहन किया जाएगा।

The AGM (Engg. -Elect.), ER, AAI, N.S.C.B.I. Airport, Kolkata 700052 shall be the Engineer-in-charge of the work. You are requested to attend the office of AGM (Engg.-Elect.), ER, Airports Authority of India, NSCBI Airport, Kolkata 700052 by **08.12.2024** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- (Rupees Hundred only) and the cost of the stamp paper shall be borne by you.

Contd.

3. कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर जमानत राशि की बकाया ₹7,13,023.00 (रुपये सात लाख तेरह हजार तेईस मात्र) अदा की जाए अन्यथा निविदा दस्तावेज के धारा 1ए, पृष्ठ संख्या 62 के अनुसार उक्त राशि रनिंग बिल से कटौती की जाएगी।

Please deposit ₹7,13,023.00 (Rupees Seven Lakh Thirteen Thousand Twenty Three only) towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per Clause 1A, Page no. – 62 of the tender documents.

4. आपसे अनुरोध है कि अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और ठेका श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971, बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार का विनियमन और सेवा की शर्त) अधिनियम 1996, भवन और अन्य निर्माण श्रमिक कल्याण उपकर अधिनियम 1996 और न्यूनतम मजदूरी अधिनियम एवं केंद्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन अवश्य करें।

You are requested to comply with the provision of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Central rules 1971, Child Labour (prohibition & Regulation) Act 1986, Construction Workers (Regulation of Employment and condition of Service) Act 1996, Building and Other construction Workers Welfare Cess Act 1996 and minimum wages act and rules there of Central and State Governments.

5. आपको एतद्वारा इस कार्य के लिए नियोजित की जाने वाली सामग्री और श्रमिकों के लिए निविदा दस्तावेज के धारा नंबर 46, पृष्ठ संख्या 118 के अनुसार CAR नीति और कर्मचारी मुआवजा नीति प्रस्तुत करने का निवेदन किया जाता है।

You are hereby directed to submit the CAR Policy and Workmen compensation policy as per GCC Clause No. 46, Page No. 118 of tender document for materials and workers to be employed for this work separately.

6. आपसे निवेदन है कि आप तुरंत प्रबन्धक (अभि-वि.), पू. क्षे., भा.वि.प्रा, 1st फ्लोर, न्यू ओपरेशनल कमप्लेक्स, ने. सु. च. बो. अ. हवाई अड्डा, कोलकाता 700052 से मिलें वह आपको साईट सौंपने की व्यवस्था करेंगे।

You are requested to contact with the Manager (E-E)-ER, Airports Authority of India, 1st Floor, New Operational Complex, NSCBI Airport, Kolkata 700052 who will arrange to hand over the site to you.

7. कृपया ध्यान दें कि कार्य समाप्त करने का समय **06 (छह) महीने** और इस पत्र के जारी होने के 10वें दिन से इसकी गणना की जाएगी।

Please note that the time allowed for carrying out the work shall be **06 (Six) months** and same shall be reckoned from the 10th day after issue of this letter.

8. आपसे अनुरोध है कि एयरोड्रम एंट्री पास (एईपी) प्राप्त करने के लिए सभी औपचारिकताएं पूरी करने के लिए कार्य आदेश प्राप्त होने के तुरंत बाद सीएसओ कार्यालय, एनएससीबीआई हवाई अड्डा, कोलकाता में उपस्थित हों।

You are requested to attend the CSO office, NSCBI Airport, Kolkata, immediately after receiving the work order to complete all formalities for getting Aerodrome Entry Pass (AEP).

Contd.

9. इस ठेके के संबंध में आगे का कोई भी पत्राचार इंजीनियर-इन-चार्ज को संबोधित किया जाए ।
Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-charge.
10. कृपया पावती भेजें और स्वीकृति प्रतिलिपि के तौर पर संलग्नित पत्र की हस्ताक्षरित प्रति इस कार्यालय को अवश्य 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.
11. यदि अंग्रेज़ी और हिन्दी पाठ में कोई असंगति पाया जाता है तो अंग्रेज़ी पाठ को सही माना जाएगा ।
If there is any discrepancy between English and Hindi then meaning derived in English will be given precedence.

संलग्न / Encl:

(i) Schedule of Work

निष्ठापूर्वक/Yours faithfully,



सहायक महाप्रबंधक (अभि.-वि) / AGM(E-E)
भा. बि. प्रा., पू.क्षे / AAI, E.R
ने. सु. च. बो. अ. हवाई अड्डा / NSCBI Airport
कोलकाता 700052/Kolkata 70005

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Item Rate BoQ

Tender Inviting Authority: <AIRPORTS AUTHORITY OF INDIA>

Name of Work: <Replacement of 320 KVA DG set and AMF panels at ELDIS RADAR inside operational area, NSCB Airport, Kolkata>

Contract No: <2024_AAI_208829_1>

Name of the Bidder/ Bidding Firm / Company :	Shiva Enterprises					
PRICE SCHEDULE						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE (Excl. GST) In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT (Excl. GST) in Rs. P	TOTAL AMOUNT In Words (Excl. GST)
1	2	4	5	7	8	10
1	Supply Installation Testing Commissioning of "Silent Type" Radiator Cooled, Diesel Generating Set (as per AAI approved make) along with having Prime mover power rating of 320 KVA at 0.8 lagging power factor, 415 volts, 1500 RPM, 3 phase system, as per ISO 8528 and consisting of the following (a) Diesel Engine: 4 stroke, electronic governor, power command control module, radiator cooled, electric start, of suitable BHP at 1500 RPM suitable for above output of alternator at 40 Degree C, 50% RH & at 1000 Meter MSL and conforming to BS 5514, BS 649, IS 10000, capable of taking 10% over loading for one hour after 12 hours of continuous operation. The engine will be fitted complete with all the required accessories. (b) Alternator: Synchronous alternator rated for 320 KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, 50% RH & at 1000 Meter MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self-excited and self-regulated through AVR, , terminal arrangement i/c 1000A aluminium bus-duct box with other associated equipment conforming to IS 4722 / BS 2613 suitable for tropical conditions and with class F / H insulation (c) Base Frame & Foundation: Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement which shall be installed on existing concrete foundation and vibration isolation arrangement as per recommendations of manufacturer. (d) Fuel Tank: Day service fuel tank of 520 (or as per OEM standard) litres capacity fabricated out of 3 mm thick M.S. sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. Complete with valves, level indications & accessories as required as per specifications (e) Exhaust System: Dry Exhaust manifold with residential exhaust silencer and catalytic converter (f) Starting System: 24V/180AH X 2 DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable nos. of batteries with MS battery stand etc as required as per specifications (g) The work should be as per Central Electrical Authority / Pollution control board standards (upto its latest amendment). (h) Complete RCC foundation work as per OEM specified standard. DG set complete as described above and as per tender specifications.	2	JOB	2680000.00	5360000.00	INR Fifty Three Lakh Sixty Thousand Only
2	Supplying and fixing of exhaust gas piping of suitable dia. for 320 KVA D.G Set welded black MS, B (medium) Class pipe conforming to IS 1239 / MS pipe having wall thickness 6.35 mm conforming to IS 3589 cut to required lengths and installed with necessary bends, supports and clamps, anti-vibration mountings, insulation of exhaust system with 50 mm thick mineral wool / Rockwool having density not less than 120 Kg / Cum, wiremesh & cladding with 0.6 mm thick aluminum sheet etc. as required as per specifications.	20	METER	8200.00	164000.00	INR One Lakh Sixty Four Thousand Only
3	STRUCTURE FOR EXHAUST PIPING: Providing & fixing for MS support structure including civil foundation for exhaust fume pipes of DG Sets (Exhaust pipe to be measured and paid for separately) along horizontal and vertical runs and monkey ladder upto the height (as per CPCB norms) including cutting, welding etc and applying two coats of red oxide and two coats of synthetic enameled paint of colour and shade as directed by AAI. The design of the support structure shall be done by the contractor and shall be as per CPCB norms(upto its latest amendment). Design and drawings shall be got vetted from IIT / REC/Govt. Engr. College before execution as per specifications as required.	900	KG	180.00	162000.00	INR One Lakh Sixty Two Thousand Only



NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE (Excl. GST) In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT (Excl. GST) in Rs. P	TOTAL AMOUNT In Words (Excl. GST)
1	2	4	5	7	8	10
4	Design, fabrication, supply, installation, testing and commissioning of microprocessor-based AMF panel with provision of bottom entry incomer for Main Supply and bottom exit outgoing of AMF Panel (TTA) for 320 KVA D.G. Set with bye-pass arrangement (for Main and D.G. supply). AMF panel board shall be equipped with automatic load transfer scheme comprising of three numbers of microprocessor-based EDO ACBs (03 Nos. 800 Amp. 4 pole, 50 KA, Icu=Ics=Icw for 1s), with provision of electrical interlock for changeover of supply (DG & Mains), TPN busbar of 1500 Amp of aluminium alloy with heat shrinkable sleeves with 100% Neutral rating, AMF logic relay, auxiliary relays, timer, suitable rating CT/PT other accessories etc to fully accomplish the functions described below. All relays shall be numeric type in dust tight enclosures. Auxiliary relays and timers shall be plug in type with dust tight enclosures. Incomer EDO ACBs shall be effectively interlocked so that one is tripped before the other can be closed. All EDO ACBs shall be microprocessor based and having short circuit, over current and earth fault protection for the AMF panel. All other relays and components shall be of AAI approved makes capable of reliable operation with a high degree of precision. It shall also have a feature for By-Bass Mode with 2 Nos Manual changeover switch of suitable rating (Minimum rating shall be full load current capacity of 320 KVA DG Set) to divert load from incomer to Load end without any involvement of AMF Panel including control cabling and interfacing with the DG with following features (a) Output shall be available within 10 seconds in auto mode in first attempt. (b) There shall be three attempts and then lock out (c) Parameters measurement digitally for mains, DG and Load side: Current, Voltage, Frequency, Hour, Power, Energy. (d) Power monitoring for both DG and mains (e) Auto / manual / test mode run. (f) LED indication for R Y B for mains / DG / Load and Load on DG or Mains. (g) Audio visual indication for: Fail to start, LLOP, HWT, OS, HLOT, EF, OC, SC. (h) Protection: EF, OC, SC, RP.	2	EACH	490000.00	980000.00	INR Nine Lakh Eighty Thousand Only
5	Supply of 3.5 core x 300 sqmm XLPE insulated and PVC sheathed aluminium conductor armoured Power Cable of 1.1KV grade, conforming to IS 7098, Part-1 1988 with up to date amendments and conforming to technical specifications.(The outer sheath shall be FRLS.)	120	METER	1580.00	189600.00	INR One Lakh Eighty Nine Thousand Six Hundred Only
6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size Above 185 sq. mm and upto 400 sq. mm in the existing masonry open duct as required.	70	METER	130.00	9100.00	INR Nine Thousand One Hundred Only
7	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp) on wall surface as required.	50	METER	165.00	8250.00	INR Eight Thousand Two Hundred Only
8	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5 core x 300 sqmm of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	12	SET	1740.00	20880.00	INR Twenty Thousand Eight Hundred Only
9	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.	6	SET	10900.00	65400.00	INR Sixty Five Thousand Four Hundred Only
10	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	10	METER	490.00	4900.00	INR Four Thousand Nine Hundred
11	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	30	METER	270.00	8100.00	INR Eight Thousand One Hundred Only
12	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.	4	SET	18000.00	72000.00	INR Seventy Two Thousand Only
13	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	10	METER	1350.00	13500.00	INR Thirteen Thousand Five Hundred Only
14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	30	METER	1250.00	37500.00	INR Thirty Seven Thousand Five Hundred Only
15	Dismantling of 2 Nos 320 KVA existing DG Set by breaking the existing RCC foundation of size 13.2 mtr X 2.6 mtr X 0.47 mtr, excavating additional excess soil/foundation as directed by E-I-C and removing the existing canopy structure and stacking all the dismantled item and malwa to within a distance of 100 mtr from the location of dismantling as instructed by the E-I-C.	1	JOB	35000.00	35000.00	INR Thirty Five Thousand Only
Total In Figures					₹ 71,30,230.00	INR Seventy One Lakh Thirty Thousand Two Hundred & Thirty Only
Quoted Rate In Words					INR Seventy One Lakh Thirty Thousand Two Hundred & Thirty Only	

Signature Not Verified

Digitally signed by SUMAN BISWAS
Date: 2024.12.19 13:28:53 IST
Location: eProcurement System for Central PSUs



[Handwritten Signature]
28/11/24