

पत्रांक:- भा.वि.प्रा./राज/वरि.प्र.(अभि.वि)/का.आ. -05/24-25/ 520-530

दिनांक: 23/08/2024

By Speed Post

सेवा में,
मैसर्स जीवीडी इंजिनियर्स एंड कॉन्ट्रैक्टर्स,
पी/104, लोअर ग्राउंड फ्लोर,
सी.आर. पार्क,
नई दिल्ली - 110 019.

To,
M/s. GVD Engineers & Contractors,
P/104, Lower Ground Floor,
C.R. Park,
New Delhi - 110 019.

E-mail:- mahesh@gvdengineers.com

विषय : रिप्लेसमेंट ऑफ एक्सिस्टिंग डीजी सेट्स बाय 02 नो. 320 केवीए डीजी सेट एट जामनगर एअरपोर्ट ।

Sub : Replacement of existing DG sets by 02 Nos. 320 KVA DG sets at Jamnagar Airport

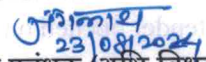
संदर्भ :- 1) आपकी दिनांक 18.07.2024 को खोली गयी निविदा ।

Ref. :- 1) Your tender opened on 18.07.2024.

महोदय /Dear Sir ' (S),

1. उपर उल्लेखित कार्य हेतु आपका टेन्डर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गये मद पर आपकी राशि कुल ₹ 65,53,800/- (रुपये : पैंसठ लाख तिरपन हजार आठ सौ मात्र) GST के बिना है, जो कि टेन्डर की अनुमानित लागत राशि ₹ 75,23,535/- GST के बिना से 12.88 % नीचे है।
Your tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India, at the item rate quoted by you totaling to ₹ 65,53,800/- (Rupees : Sixty Five Lakh Fifty Three Thousand Eight Hundred Only) excluding GST which is 12.88 % below the estimated cost put to tender of ₹ 75,23,535/- excluding GST.
2. वरिष्ठ प्रबंधक (अभि-विद्युत), भा.वि.प्रा., राजकोट अंतराष्ट्रीय हवाई अड्डा, राजकोट कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप करारनामे पर हस्ताक्षर करने के लिए दिनांक 10/09/2024 तक वरिष्ठ प्रबंधक (अभि-विद्युत), भा.वि.प्रा., राजकोट अंतराष्ट्रीय हवाई अड्डा, राजकोट के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके का करारनामा ₹ 100/- के नॉनजुडिशियल स्टैम्प पर निष्पादित किया जाएगा, तथा पेपर का खर्च आपके द्वारा उठाया जायेगा।
Sr. Manager (Engg-E), AAI, Rajkot International Airport, Rajkot shall be the Engineer-in-charge of the work. You are requested to attend the office of the Sr. Manager (Engg-E), AAI, Rajkot International Airport, Rajkot by 10/09/2024 to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value ₹ 100/- and the cost of the stamp paper shall be borne by you.
3. कृपया इस पत्र के जारी होने की तिथि से 15 दिनों के अंदर जमानत की बकाया ₹ 6,55,380/- (रुपये : छह लाख पचपन हजार तीन सौ अस्सी मात्र) जमा करें अन्यथा ठेके के आदेश से पृष्ठ 130 पर दी गई शर्त अनुसूची 'E' के अनुसार आपके रनिंग बिल से काट लिया जायेगा।
Please deposit ₹ 6,55,380/- (Rupees: Six Lakhs Fifty Five Thousand Three Hundred Eighty Only) towards security deposit within 15 days from the date of issue of this letter, failing which the same will be deducted from your running bill as per Schedule 'E' on page 130 of the tender.
4. आपसे निवेदन है कि केन्द्रीय और राज्य सरकारों के 1970 के अधिनियम अनुबंध श्रम नियम तथा 1971 के केन्द्रीय नियम अनुबंध श्रम नियम (नियम तथा उन्मूलन) एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन और नियमों के प्रावधानों का अनुपालन 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 and minimum wages act rules thereof of Central and State Governments.
5. आपको निर्देश दिया जाता है की आप तत्काल आगे की कार्यवाही के लिये प्रबंधक (अभि.वि.), भा.वि.प्रा., जामनगर एअरपोर्ट से संपर्क करें।
You are also directed to contact Manager (E-E), A.A.I., Jamnagar Airport immediately for further action.

6. कृपया नोट करें की काम करने का अनुमानित समय **06** माह है जो कि दिनांक : 01/09/2024 से गिना जायेगा ।
Please note that the time allowed for carrying out the work as entered in the tender is **06** Months and the same shall be reckoned from 01/09/2024.
 7. इस ठेके के सम्बन्ध में आगे का कोई भी पत्राचार प्रभारी अभियंता के पते पर किया जाए ।
Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-Charge.
 8. उपरोक्त संदर्भित सभी पत्र इस ठेके का भाग होंगे ।
All the letters referred above shall form part of contract.
 9. त्रुटि दायित्व अवधि ठेके दस्तावेज के पृष्ठ **SCC-9** में Clause 24 के अनुसार होगी ।
The defects liability period shall be as per Clause 24 of page no. SCC-9 of the contract document.
 10. कृपया पत्र की पावती भेजें और इस पत्र की नक़ल पर स्वीकृति के प्रतीक के रूप में हस्ताक्षर करने के बाद अधोहस्ताक्षरी को भेजें ।
Please acknowledge the receipt and return the duplicate of this letter enclosed herewith after signing it to the undersigned as token of acceptance.
 11. यदि कोई विसंगति पाई जाती है तो अंग्रेजी संस्करण प्रभावी माना जाएगा ।
In case any discrepancy is found then English version will prevail.
- धन्यवाद /Thanking You,


 23/08/2024
 वरिष्ठ प्रबंधक (अभि.विद्युत)
 Sr. Manager (Engg-E)

भा.वि.प्रा., राजकोट अंतर्राष्ट्रीय हवाई अड्डा, राजकोट
 A.A.I., Rajkot International Airport, Rajkot.

कृते तथा ओरसे अध्यक्ष,

For and on behalf of the Chairman,

भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

SCHEDULE OF QUANTITIES

NAME OF WORK :- Replacement of existing DG sets by 02 Nos. 320 KVA DG sets at Jamnagar Airport.

It. No.	Description of item	Unit	Qty	RATE	AMT
1	Supply Installation Testing Commissioning of "Silent Type" Radiator Cooled,"Outdoor Type" Diesel Generating set along with having Prime mover power rating of 320 KVA at 0.8 lagging power factor, 415 volts, 1500 RPM, 3 phase system, for 0.85 load factor and consisting of the following including providing necessary CEA,CPCB approval etc. as required: (a) Diesel Engine: 4 stroke, electronic governor, radiator cooled, electric start, of suitable BHP at 1500 RPM suitable for above output of alternator at 50 Degree C, 50% RH & at 500 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. The DG set shall comply CPCB-IV Plus norms. (b) Engine mounted Instrument Panel fitted with having digital display for following: (i) Start- stop switch with Key. (ii) Water Temperature Indication. (iii) Lubrication Oil Pressure Indication. (iv) Lubrication Oil Temperature Indication. (v) Battery Charging Indication. (vi) RPM Indication. (vii) Over Speed Indication. (viii) Low Lub Oil Trip Indication. (ix) Engine Running Hours Indication. (c) 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 50 Degree C, 50% RH & at 500 Meter MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self-excited and self-regulated through AVR, conforming to IS:4722 / BS 2613 suitable for tropical conditions and with class-F/H insulation. (d) Base Frame & Foundation: Both the engine and alternator shall be mounted on suitable base frame made of MS channel which shall be installed on suitable cement concrete foundation with necessary reinforcement including vibration isolation arrangement as per recommendations of manufacturer and site conditions. (e) Fuel Tank: Day service fuel tank (Free Standing type) of minimum 900 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, stand & accessories including foundation complete as required as per specifications. (f) Exhaust System: Dry Exhaust manifold with residential exhaust silencer and catalytic convertor including supplying & fixing Stainless Steel Expansion Joints, Corrugated bellows suitable for 320 KVA DG Sets to fit in exhaust pipe. (g) Starting System: 12V / 24V DC starting system (or as per manufacturer / OEM standards) comprising of starter motors, voltage regulator and arrangement for initial excitation complete with suitable nos. of batteries with MS battery stand, external battery charging panel etc. as required as per OEM standards. (h) Acoustic Enclosure : Acoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in to the atmosphere as per specifications.	Sets	2	2700000.00	5400000.00
2	Supplying and fixing exhaust gas piping (suitable for 320 KVA D.G. Set) of size 250 mm nominal dia welded black MS pipe (6 mm thick) conforming to IS:3589 cut to required lengths and installed with necessary bends, supports and clamps, anti-vibration mountings, insulation of exhaust system with loosely bound resin (LBR) mattress / mineral wool/ Rockwool of 50 mm thick, wiremesh & 0.6 mm thick aluminum cladding for the complete portion etc. as required as per specifications.	Meter	15	6000.00	90000.00
3	Providing & fixing for MS support structure including suitable civil foundation for exhaust gas pipes of DG Sets 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. Design shall be got approved from the AAI before execution as required.	Kgs	400	135.00	54000.00

Deekap
23/01/2024
SM (BB)

It. No.	Description of item	Unit	Qty	RATE	AMT
4	Fabricating, Installing, Testing and Commissioning of Automatic Mains Failure (AMF) control panel having 50 kA short circuit breaking capacity, suitable for 320 KVA Silent Type DG set complete with relays, timers, set of CTs for metering & protection and energy analyser to indicate current, phase & line voltages, frequency, power factor, KWH, KVARH & provision for overload, short circuit, restricted earth fault, under frequency, interlocking arrangement etc. Panel shall be totally enclosed, dust and vermin proof, front pattern, free floor standing type with four pole by pass arrangement including the following (Including dismantling of Existing AMF panel and installation of new panel at the same location): (a) ACB Mains : (i) 630 A, 4-pole Microprocessor based release (for O/C, E/F & Shunt Trip) motorised electrically operated EOD type ACB having 50 kA short circuit breaking capacity with suitable 4P contractor for Main supply - 01 set (b) ACB Alternator : (i) 630 A, 4-pole Microprocessor based release (for O/C, E/F & Shunt Trip) motorised electrically operated EOD type ACB having 50 kA short circuit breaking capacity with suitable 4P contractor for DG supply - 01 set (c) Microprocessor based AMF Module incorporating : (i) Supply Failure Timer. (ii) Restoration Timer. (iii) 3 Impulse automatic engine Start / Stop logic. (iv) Mains / Generator Voltage & Frequency Sensing. (v) Provision for over load, Short circuit, restricted earth fault, under frequency etc. (d) Metering : (i) Combined meter for Voltage / Ampere / Frequency. (ii) Combined meter for KW / Power Factor / KVA. (iii) Electronic KWH Meter. (iv) 3 sets of CT's 15 P 10 accuracy for protection and 15 VA class-I for metering. (v) Control MCB's (e) Indication (LED Type) (i) DG ON (ii) Load on DG (iii) Mains ON (iv) Load on Mains (v) Battery Charger ON (vi) Auto/Manual/Test/Off selector switch. (f) Push Buttons (AMF Module by pass mode) : (i) Engine STRAT / STOP (ii) Generator breaker CLOSE / TRIP (iii) Mains breaker CLOSE / TRIP (iv) Fault ACCEPT / RESET (g) Battery Charger : (i) SMPS Based Battery Charger Unit complete with transformer / rectifier, suitable DC Voltmeter and Ammeter, selector switch for Trickle, Off and Boost, current adjustment etc. (h) Over Current & Earth fault Relay (EC2 of C&S make or equivalent) (i) Audio / visual annunciation for - High Water temperature, Low Lubricating Oil Pressure, Engine Over Speed, Engine Fails to Start, Full Load / Maximum Load warning. (j) By Pass Arrangement (to by pass the AMF panel) - On Load 630A change Over Switch for AMF panel By pass arrangement-2 Nos	Each	2	170000.00	340000.00

SCHEDULE OF MATERIALS

Deekhe P
23/08/2024
SM (EE)

It. No.	Description of item	Unit	Qty	RATE	AMT
5	Supply of 3.5 Core x 300 Sqmm size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium conductor cable conforming to IS 7098 (Part 1) amended upto date as required.	Mtr	240	1400.00	336000.00
6	Supplying of 12 core X 2.5 Sqmm of 1.1 kV grade PVC insulated copper conductor armoured stranded Control Cable conforming to IS: 1554 complete as required and as per specifications.	Mtr	140	250.00	35000.00
7	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5 core X 300 sq. mm (70 mm) size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	Each	8	1050.00	8400.00
8	Supplying and making indoor Control Cable end Termination of 12 core X 2.5 Sqmm sizes 650V grade LT XLPE insulated, HR PVC sheathed, stranded copper conductor, Armoured cables, including cost of tinned copper heavy duty crimping lugs, Single compression heavy duty glands, insulation tape, Name Plate at Both Ends and all necessary material to complete the termination.	Each	4	250.00	1000.00
9	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of o size above 185 sq. mm and upto 400 sq. mm in the existing RCC/ HUME/ METAL/HDPE pipe/in existing trench pipe as required.	Mtr	70	110.00	7700.00
10	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.	Mtr	150	100.00	15000.00
11	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of upto size upto 35 sq. mm in the existing RCC/ HUME/ METAL/HDPE/in existing trench pipe as required.	Mtr	100	50.00	5000.00
12	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size upto 35 sq. mm in the existing masonry open duct as required.	Mtr	20	40.00	800.00
13	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.	Set	4	16000.00	64000.00
14	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 meter 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 50 mm)	Mtr	150	120.00	18000.00
15	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.	Mtr	200	50.00	10000.00
16	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. 50 mm	Mtr	100	600.00	60000.00
17	Supply of DWC HDPE Pipe of size 90 mm dia (OD-90 mm & ID-76 mm nominal), as per IS:4984 of complete as required.	Mtr	70	120.00	8400.00
18	Laying of 90 mm dia (OD-90 mm & ID-76 mm nominal) pipe direct in ground (below 75 cm) including excavation of suitable trench and refilling the trench etc complete as required.	Mtr	70	150.00	10500.00
19	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 50mm)	Mtr	100	900.00	90000.00
	Total Rs.				6553800.00
	Say Rs.				6553800.00

Handwritten signature
23/08/2024
S.M. (SE)