



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

Ref. No.: - AAI/DIM/AGME-E/ELR-20/CAP/W.O-10/2020-21/9830-40 Date: 29.01.2021

To,

M/s Mona Generator Services Ltd.
1-A, Basement, 30-31, Raja house,
Nehru place, New Delhi-110019

Subject: Work Order for: "Replacement of 2X250 KVA DG set along with AMF panel and associated works at Dimapur Airport."

Ref. No: Your Tender opened on dated 25/01/2021.

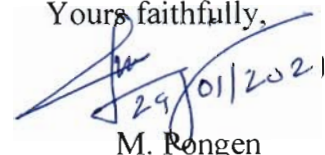
Tender ID: 2021_AAI_66194_1

Dear Sir(s)

1. 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. 50,47,700/- (Rupees Fifty Lakhs Forty Seven Thousand and Seven Hundred Only) Excluding of GST** which is **6.76%** below the Estimated cost put to Tender of **Rs. 54,13,787/-**.
2. Asst. General Manager Engg. (Elect) AAI, Dimapur Airport shall be the Engineer-in-Charge of the work. You are requested to attend the office of the Asst. General Manager Engg. (Elect) AAI, Dimapur Airport by 08.02.2021 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- and the cost of the stamp paper shall be borne by you.
3. You are requested to deposit **Rs. 5,04,770/- (Rupees Five Lakhs Four Thousand Seven Hundred and Seventy Only)** towards Security Deposit within **30th** days from the date of issue of this letter, falling which, the same will be deducted from your running bills as per GCC Clause-1 A of the contract documents.
4. You are requested to comply with the provision of Contract Labor (Regulation and Abolition) Act of 1970 and contract Labor (Regulation and Abolition) central rules 1971 and Minimum wages Act & Rules thereof central and state Governments.
5. You are also directed to contact Manager Engg. (E), AAI, Dimapur Airport immediately who will arrange to handover the site to you.
6. Please note that the time allow for carrying out the work is **03 (Three) Months** which shall be reckoned from the **10th day** after issue of this letter.

7. Any further correspondence in connection with the contract should normally be address to the Asstt. General Manager, AAI Dimapur Airport, Nagaland-797115.
8. Defect Liability period shall be **12 (Twelve) months** as per the contract documents.
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.

Yours faithfully,

A handwritten signature in blue ink, appearing to be 'M. Rongen', with a date '29/01/2021' written below it.

M. Rongen

Asstt. General Manager Engg. (Elect)
For and on behalf of Chairman
Airports Authority of India.

Encl: -BOQ

Tender Inviting Authority: AGM (E-E) AAI, Dimapur Airport.

Name of Work: Replacement of 2X 250 KVA DG set along with AMF panel and associated works at Dimapur Airport.

Contract No: 2021_AAI_66194_1

SCHEDULE OF WORK / ITEM(S)

Sl. No.	Description of Item	Qty.	Unit	Rate	Amount
1	Supply, installation, testing and commissioning of 250 KVA Diesel Generator Set with necessary civil foundation in acoustic enclosure confirming to latest environmental protection regulations for emission and noise levels complete with diesel engine along with required AVM pads, rated 1500 RPM , water cooled, electric start, turbo charged, after cooled confirming to the latest standard coupled with alternator of 400 KVA rating, brushless, self excited, self regulated, minimum Class H insulation and suitable for continuous operation at 1500 RPM, generating 415 +/- 5% volts at 0.8PF (lag) 50Hz, 3 phase, 4 wire system. Both engine and alternator shall be mounted on common channel iron fabricated base frame, with suitable accessories such as two nos of 12V, 180 Ah. LEAD acid Batteries along with leads, battery stand, integral fuel tank, fuel piping from fuel tank to engine, residential silencer with flexible coupling and exhaust pipe length as required as per site requirement, cable termination box suitable for termination of 2 runs 3.5 x 240/300 sq.mm armoured aluminium cables etc as required and as per specifications.	2	Job	14,77,150.00	29,54,300.00
2	Supply, Installation, Testing and Commissioning of Automatic Mains Failure Control Panel suitable for 250 KVA DG Set with By Pass arrangement, Power contactor of suitable capacity as per full load ampere rating of alternator for the mains and alternator supply, suitable size of copper/aluminium bus bars of rated capacity, control relays, battery charging circuit suitable for charging 2 nos. 12V, 180Ah lead acid batteries, meters, indicators etc including making interconnections as required. The set shall be capable to deliver and transfer full load within a switch over time of 5 to 15 seconds complete etc as required.	2	Job	2,89,000.00	5,78,000.00

Design, Supply, Installation, Testing and Commissioning of TTA Type LT non-Essential panel of approx. size 2200(H)X 4500 (W)X 600 (D) (to be assembled with existing bus duct panel), made out of 14 SWG CRCA sheet steel, totally enclosed, IP 52 protection, free standing, floor mounting, Single front, dust and vermin proof ,compartmentalised,non draw out, extensible on both end. Degreasing, phosphating, water rinsing-7 tank process powder coated painting inside & outside- Siemens gray-RAL-7032 suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply system with bus bars extensible on both sides, interconnections with suitable size of copper/ solid aluminium strips, control circuit with breaker control switch , digital type ammeter and voltmeter, LED type indicating lamps, CT's, all incoming feeders with true rms value sensing class 1.0 multifunction power cum energy meters as below, castle type interlocking between incomers and bus couplers and having following Incomers, Bus couplers and Outgoing Moulded Case Circuit breakers, continuous GI earth bus of size 50mm x 6 mm throughout the length of panel with earth terminations at the ends ,cable alleys suitable for bottom entry of cables and 2 sets of 1000 A existing Bus duct entry at top of the panel, including supply & installation of all items as below and as per detailed specifications:

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INCOMERS- 02 Nos

Each Consisting of :-
 1000A, 4P, 50KA, EDO ACB with Microprocessor based with O/L, S/C & E/F Protection with- 01 Nos.
 Under Voltage Release-01 nos
 Shunt Release01 nos
 Door Interlock-01 Nos.
 TNC Switch-01 Nos.
 Castle Key Interlocking-01 nos
 Metering CT 1000/5A, 15VA, Class - 1 - 03 Nos.
 Digital Ammeter (96*96) (0-1000A) with inbuilt selector switch- 01 Nos.
 Digital Voltmeter (96*96) (0-500V) with inbuilt selector switch- 01 Nos
 Digital Multifunction Meter, A,V,PF,F,Kw,Kwh,KVAR 230V AC , with inbuilt selector switch , Auxiliary Supply - 230VAC with RS 485 Port- 1 Nos.
 Phase Indicating Lamp,R Y B, LED Type- 03 Nos.
 Indicating Lamp, On, Off, Trip, LED Type - 03 Nos.
 2A SP C Curve 10KA MCB - 07 Nos
 10A Neutral Link- 01 Nos.

BUS COUPLER -01 Nos.

1

Job

12,35,000.00

12,35,000.00

Each Consisting of : 1000A, 4P, 50KA, EDO ACB with Microprocessor based with O/L, S/C & E/F Protection with - 01 Nos. Under Voltage Release- 01 Nos. Shunt Release - 01 Nos. Door Interlock- 01 Nos. TNC Switch -01 Nos. Castle Key Interlocking -01 Nos. Indicating Lamp, On, Off, Trip, LED Type - 03 Nos. 2A SP C Curve 10KA MCB - 07 Nos. 10A Neutral Link - 01 Nos.					
Outgoing to 630A MCCB - Power Feeder Each Consisting of : 04 Nos					
630A, 4P, 50KA, MCCB TMD based with O/C, S/C Protection -01 Nos. Auxiliary Switch + Alarm Switch 1C/O -01 Nos. Rotary Handle (Extended) -01 Nos. Spreader -01 Nos. Metering CT 600/5A, 15VA, Class - 1 -03 Nos. Digital Multifunction Meter - 01 Nos. Phase Indicating Lamp, On, Off, Trip LED Type -03 Nos. 2A SP C Curve 10KA MCB -01 Nos. 10A Neutral Link 01 Nos.					
Outgoing to 400A MCCB - Power Feeder Each Consisting of : 06 Nos.					
400A, 4P, 36KA, MCCB TMD based with O/C, S/C Protection -01 Nos. Auxiliary Switch + Alarm Switch 1C/O -01 Nos. Rotary Handle (Extended) -01 Nos. Spreader -01 Nos. Metering CT 400/5A, 15VA, Class - 1 -03 Nos. Digital Multifunction Meter -01 Nos. Phase Indicating Lamp, On, Off, Trip LED Type -03 Nos. 2A SP C Curve 10KA MCB -01 Nos. 10A Neutral Link -01 Nos.					
Outgoing to 200A MCCB - Power Feeder Each Consisting of : 02 Nos.					
200A, 4P, 25KA, MCCB TMD based with O/C, S/C Protection -01 Nos. Auxiliary Switch + Alarm Switch 1C/O -01 Nos. Rotary Handle (Extended) -01 Nos. Spreader -01 Nos. Phase Indicating Lamp, On, Off, Trip LED Type -03 Nos. 2A SP C Curve 10KA MCB -01 Nos. 10A Neutral Link -01 Nos.					
4	Laying and fixing of one number XLPE armoured power cable of 1.1 KV grade of following size on cable tray as required.				
a	3.5 Core, 300 Sq.mm	50	Mtrs	180.00	9,000.00

5	Supplying and installing following size of perforated pre painted M.S cable trays with perforation not more than 17.5 %, in convenient sections, joined with connectors and fixed on 25mmx25mmx3 mm angle supports duly grouted on the wall/floor with proper support etc complete as required.				
a	300 mm width x 62.5 mm depth x 2.0 mm thickness	50	mtrs	550.00	27,500.00
6	Earthing with copper earth plate 600mm x 600mm x 3mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.with charcoal/ coke and salt as required.	2	Set	9000.00	18,000.00
7	Earthing with GI earth plate 600mm x 600mm x 6mm thick, including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	4	Set	5000.00	20,000.00
8	Supply & fixing of 50 mm x 6mm copper strip in 65mm dia B-Class GI pipe from earth electrode as required.	10	Mtrs	1750.00	17,500.00
9	Providing & fixing of 50mm x 6mm copper strip on surface or recess for earth connection as required.	25	Mtrs	1450.00	36,250.00
10	Providing & fixing of 25 mm x 5mm GI strip in 40mm dia B-Class GI pipe from earth electrode including connection with G.Inut,bolt,spring washer, excavation and refilling etc as required.	15	Mtrs	450.00	6,750.00
11	Providing & fixing of 25mm x 5mm GI strip on surface or recess for earth connection as required.	30	Mtrs	180.00	5,400.00
12	Making, Supplying and Fixing of Single line diagram of Complete power supply distribution system of Power House on flex board of appropriate size and display the same in LT Panel room complete as per actual.	2	Nos.	15000.00	30,000.00
13	Dismantling and shifting of existing Non- Essential LT Panel along with accessories, components, etc. from its existing location at Dimapur Airport and keeping it as per direction of EIC.	1	Job	30000.00	30,000.00
14	Dismantling and shifting of 250 KVA DG set along with AMF panel, etc. from its existing location at Dimapur Airport and keeping it as per direction of EIC.	2	Job	40000.00	80,000.00
	TOTAL			Rs.	50,47,700.00

(Rupees Fifty Lakhs Forty Seven Thousand and Seven Hundred Only) Exclusive of GST


(M. Pohgen)
Asstt. Gen. Manager (EE)
AAI, Dimapur Airport