

भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

No: AAM/ENGG/AMED-VIII/2023-24/W.O-01/Repl of VFD/A-13

Date: 23.08.2023

BY SPEED POST/ email

WORK ORDER

To,

M/s. PAOWERTECH ENGINEERS,
No.9, 4th cross Street,
Natesan Nagar, Puducherry-605005.

Name of Work: Replacement of VFD panels at AC plant at CIA.

Ref: Your e-tender 2023_AAI_160133_1 price bid opened on 09.08.2023.

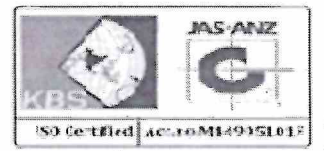
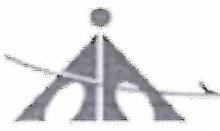
Dear Sirs,

1. Your e tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the items rates quoted by you totaling to **Rs.78,54,517.00 (Rupees Seventy-Eight Lakhs Fifty-Four Thousand Five Hundred and Seventeen Only) Excluding GST**, which is 3.53 % below the justified cost of Rs.81,42,115.00(Excluding GST).
2. Jt. General Manager (Engg-Elect)- III, AMED, AAI, Chennai Airport, is the Engineer-In-Charge of the work and Asst. General Manager (Engg-Elect), AMED-VIII will be his authorized representative. You are requested to depute your accredited representative empowered to sign the contract agreement on your behalf to the office of the Jt. General Manager (Engg-Elect)-III, AMED, AAI, Chennai Airport by 04.09.2023 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.
3. Please deposit an amount of Rs.7,85,452.00 (Rupees Seven Lakhs Eighty-Five Thousand Four Hundred and Fifty-Two Only) towards Security deposit within 10 days from the date of issue of this letter failing which the same will be deducted as per conditions of Clause IA of page 16 of 132 of GCC of the e-tender document.
4. 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 and rules thereof Central and State Governments.
5. You are also requested to contact the Asst. General Manager (Engg-Elect), AMED-VIII immediately who will arrange to handover the site to you.

Contd...2/-

फैक्स: 044 - 2256 0008 ई पी ए बी एक्स: 2256 0551, चेन्नई हवाई अड्डे, चेन्नई - 600 027.

Fax: 044 - 2256 0008 EPABX: 2256 0551, Chennai Airport, Chennai - 600 027.



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AIRPORTS AUTHORITY OF INDIA

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6. Please note that the time allowed for carrying out the work shall be **08 (Eight) Months with effect from 23.08.2023.**
7. Any further correspondence in connection with the contract should normally be addressed to the Engineer-in charge.
8. Please acknowledge the receipt of the same by sending return mail to the undersigned as a token of acceptance.
9. All other terms and conditions shall be as per agreement.

Encl: Schedule of Quantity (04 pages).

Yours faithfully,

[Handwritten Signature]
23/08/23

(M. Josephine Juliana)

AGM (Engg. -Elect.)-VIII,
AAI, Chennai Airport.

**AIRPORTS AUTHORITY OF INDIA
CHENNAI AIRPORT::CHENNAI-16**

SCHEDULE OF WORK

Name of Work: Replacement of VFD panels at AC plant at CIA.

SI No.	Description of Item	Qty	Unit	Rate	Amount
	Sub Head- 1 - Dismantling				
	Dismantling of entire section of existing panel board comprising of compartments i/c dismantling of existing incoming bus bar trunk, outgoing cable connections & BMS cable connections from all the compartments & handing over to AAI Stores, compartments in the existing panel board are as follows;				
1	MCC Panel - 1	1	Job	50,000.00	50,000.00
	Incomer - 3200 Amps ACB - 1 No. Outgoings - 2000 Amps ACB for LT Chiller - 1 No. 250 Amps MCCB for Secondary pumps - 2 Nos 160 Amps MCCB for Cooling Towers - 2 Nos. 160 Amps MCCB for Primary pump - 1 No. 400 Amps MCCB for Condenser Pump - 1 No. 250 Amps MCCB for Secondary pump (T3) - 1 No.				
2	MCC Panel - 1A	1	Job	50,000.00	50,000.00
	Incomer - 3200 Amps ACB - 1 No. Outgoings - 2000 Amps ACB for LT Chiller - 1 No. 250 Amps MCCB for Secondary pumps - 2 Nos 160 Amps MCCB for Cooling Towers - 2 Nos. 160 Amps MCCB for Primary pump - 1 No. 400 Amps MCCB for Condenser Pump - 1 No. 250 Amps MCCB for Secondary pump (T3) - 1 No.				
3	MCC Panel - 2	1	Job	40,000.00	40,000.00
	Incomer - 3200 Amps ACB - 1 No. Outgoings - 800 Amps MCCB for Condenser Pumps - 2 Nos. 250 Amps MCCB for Secondary pumps - 2 Nos 160 Amps MCCB for Cooling Towers - 4 Nos. 250 Amps MCCB for Primary pumps - 2 Nos.				
4	MCC Panel - 2A	1	Job	40,000.00	40,000.00
	Incomer - 3200 Amps ACB - 1 No. Outgoings - 800 Amps MCCB for Condenser Pumps - 2 Nos. 250 Amps MCCB for Secondary pump - 1 No. 250 Amps MCCB for Cooling Tower - 1 No. 160 Amps MCCB for Cooling Towers - 4 Nos. 250 Amps MCCB for Primary pumps - 2 Nos.				
	Total of Sub Head - 1				1,80,000.00

RF 23/08

1 of 4

SI No.	Description of Item	Qty	Unit	Rate	Amount
	Sub Head- 2 - Fabrication/SITC				
	Design, Fabrication, SITC of TTA MV the following cubical type, dead front 2mm thick sheet steel enclosed, free standing indoor type extendable MCC Panel made with vermin proof hinged locakable doors for each compartment, suitable aluminum bus bar system suitable for interconnection with existing busbar/cable incoming and outgoing system i/c earthing and painting with powder coat finish of approved colour as per enclosed particular/technical specification complete with all accessories for each compartment of following rating MCCBs & VFDs, such as ON /OFF Emergency push buttons, current transformers, digital multifunction meter with selector switches , auto / manual selector switch, led indication lamps, sufficient capacity of panel ventilation fans with filter arrangement, run hour meter i/c power /control interconnection wiring with suitable size FRLS PVC insulated and PVC sheathed copper wires, connector block/ termination block, Aux / protective relay, ferruling of wiring system secured with suitable cable tie, screws, bolt nuts, minor modications required to match with existing incomer section, dismantling and re-termination of existing incoming & out going cables and interconnection bus bar systems, alignment with the existing bus ducts i/c interconnection of existing bus trunking with the new panel etc. as reqd. The incomer compartment shall have multi function meter with energy meter.				
1	MCC Panel - 1	1	Job	18,55,000.00	18,55,000.00
	MCC Panel-1: Incoming: a. Compartment for provision of 1 No. 3200 A ACB (supply of ACB not considered) Outgoings: a. Compartment for provision of 1 No 250 A MCCB and 75kW VFDs for Secondary pumps – 2 Nos. (Supply of MCCB & VFD is considered) b. Compartment for provision of 1 No. 160 A MCCB and 45kW VFDs for Cooling Towers - 2 Nos. (Supply of MCCB & VFD is considered) c. Compartment for 2000 A ACB for LT Chiller-1 No. (supply of ACB not considered) d. Compartment with 160 A MCCB having sufficient spacing for 22 kW VFD – 1 No. (Supply of MCCB is considered & Supply of VFD not considered) e. Compartment with 400 A MCCB having sufficient spacing for 90 kW VFD – 1 No. (Supply of MCCB is considered & Supply of VFD not considered) f. Compartment with 250 A MCCB having sufficient spacing for 75 kW VFD – 1 No. (Supply of MCCB is considered & Supply of VFD not considered)				

108
22/09/23 2 of 4

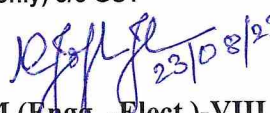
SI No.	Description of Item	Qty	Unit	Rate	Amount
2	MCC Panel - 1A	1	Jobs	18,55,000.00	18,55,000.00
	MCC Panel-1A: Incoming: a. Compartment for provision of 1 No. 3200 A ACB (supply of ACB not considered) Outgoings: a. Compartment for provision of 1 No 250 A MCCB and 75kW VFDs for Secondary pumps – 2 Nos. (Supply of MCCB & VFD is considered) b. Compartment for provision of 1 No. 160 A MCCB and 45kW VFDs for Cooling Towers - 2 Nos. (Supply of MCCB & VFD is considered) c. Compartment for 2000 A ACB for LT Chiller-1 No. (supply of ACB not considered) d. Compartment with 160 A MCCB having sufficient spacing for 22 kW VFD – 1 No. (Supply of MCCB is considered & Supply of VFD not considered) e. Compartment with 400 A MCCB having sufficient spacing for 90 kW VFD – 1 No. (Supply of MCCB is considered & Supply of VFD not considered) f. Compartment with 250 A MCCB having sufficient spacing for 75 kW VFD – 1 No. (Supply of MCCB is considered & Supply of VFD not considered)				
3	MCC Panel - 2	1	Jobs	22,88,000.00	22,88,000.00
	MCC Panel-2: Incoming: a. Compartment for provision of 1 No. 3200 A ACB (supply of ACB not considered) Outgoings: a. Compartment for provision of 1 No 250 A MCCB and 75kW VFDs for Secondary pumps – 2 Nos. (Supply of MCCB & VFD is considered) b. Compartment for provision of 1 No. 160 A MCCB and 45kW VFDs for Cooling Towers – 4 Nos. (Supply of MCCB & VFD is considered) c. Compartment with 800 A MCCB having sufficient spacing for 200 kW VFD – 2 Nos. (Supply of MCCB is considered & Supply of VFD not considered) d. Compartment with 250 A MCCB having sufficient spacing for 55 kW VFD – 2 Nos. (Supply of MCCB is considered & Supply of VFD not considered)				
4	MCC Panel - 2A	1	Jobs	14,81,517.00	14,81,517.00
	MCC Panel-2A: Incoming: a. Compartment for provision of 1 No. 3200 A ACB (supply of ACB not considered) Outgoings: a. Compartment for provision of 1 No 250 A MCCB and 75kW VFDs for Secondary pumps – 1 Nos. (Supply of MCCB & VFD is considered) b. Compartment for provision of 1 No. 160 A MCCB and 45kW VFDs for Cooling Towers - 2 Nos. (Supply of MCCB & VFD is				
Total of Sub Head - 2					74,79,517.00

3 of 4

RF 23/08/23

SI No.	Description of Item	Qty	Unit	Rate	Amount
	Sub Head - 3 Dismantling & Shifting				
	Dismantling and shifting of the following ACBs / VFDs from the dismantled old panel board of Item No. 1 to 4 of SH-1 and fix it in the new cubicle panel of SH II, including necessary termination, etc. complete as required.				
1	MCC Panel - 1	1	Job	50,000.00	50,000.00
	Incomer - 3200 Amps ACB - 1 No. Outgoings - 2000 Amps ACB for LT Chiller - 1 No. 22 kW VFD for Primary pump - 1 No. 90 kW VFD for Condenser Pump - 1 No. 75 kW VFD for Secondary pump (T3) - 1 No.				
2	MCC Panel - 1A	1	Job	50,000.00	50,000.00
	Incomer - 3200 Amps ACB - 1 No. Outgoings - 2000 Amps ACB for LT Chiller - 1 No. 22 kW VFD for Primary pump - 1 No. 90 kW VFD for Condenser Pump - 1 No. 75 kW VFD for Secondary pump (T3) - 1 No.				
3	MCC Panel - 2	1	Job	40,000.00	40,000.00
	Incomer - 3200 Amps ACB - 1 No. Outgoings - 200 kW VFD for Condenser Pumps - 2 Nos. 55 kW VFD for Secondary pumps - 2 Nos				
4	MCC Panel - 2A	1	Job	55,000.00	55,000.00
	Incomer - 3200 Amps ACB - 1 No. Outgoings - 200 kW VFD for Condenser Pumps - 2 Nos. 22 kW VFD - 2 Nos each compartment for Cooling Towers - 3 Sets. 55 kW VFD for Primary pumps - 2 Nos.				
	Total of Sub Head - 3				1,95,000.00
	Total of Sub Head No. 1 to 3				78,54,517.00

(Rupees Seventy Eight Lakhs Fifty Four Thousand Five Hundred and Seventeen only) e/c GST

 23/08/23
AGM (Engg. -Elect.)-VIII,
AAI, Chennai Airport.

4 of 4.