

No: AAI/RHQ-SR/ENGG/SM (E-E)/WO-02/Pondy/22-23/37 Date: 17.05.2023

M/s. Delite Systems Engineering (I) Pvt Ltd,
201, Shalaka, Plot No.32, TPS II,
Juhu Road, Santacruz (West)
Mumbai - 400054.

Name of Work: Facility Management Contract of 500 KWp Grid Connected Solar
Power Plant at Puducherry Airport.

REF: 1. AAI E-Bid No: 2023_AAI_146405
2. Tender (Price Bid) opened: 06.04.2023

Dear Sirs,

1. Your tender for the above mentioned is hereby accepted by the Competent Authority on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs. 24,96,938/- (Rupees Twenty Four Lakhs Ninety Six Thousand Nine Hundred and Thirty Eight Only)** Plus applicable GST @ 18% which is 6.22% below the estimated cost put to tender of Rs. 26,62,522/- Plus applicable GST @ 18%.
2. Senior Manager Engg (E-E), AAI, New Operational Office, Southern Region, Chennai Airport, Chennai Shall be Engineer - in - charge of the work. You are requested to attend this office by **05.06.2023** to sign and complete the contract agreement. The contract Agreement shall be executed on a non-judicial stamp paper of value Rs.100/- (Rupees One Hundred only). The cost of the stamp paper shall be borne by you.
3. Please Deposit **Rs. 2,49,694/- (Rupees Two Lakhs Forty Nine Thousand Six Hundred and Ninety Four Only)** towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from your running bills as per the Clause of 1-A of Clauses of Contract.
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.

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5. You are also directed to contact Asst. Manager (Engg-E), AAI, Puducherry Airport immediately who will arrange to hand over the site.
6. Please note that the time allowed for carrying out the work shall be **03 (Three) Years** which shall be reckoned from 01.06.2023.
7. Any further correspondence in connection with the contract should normally be addressed to the Senior Manager Engg (E), AAI, New Operational Office, Southern Region, Chennai Airport.
8. 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.

Thanking you,

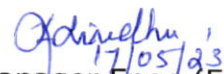
Encl: 1) Schedule of Quantities – Schedule 'A'

Yours faithfully,
-sd-

Senior Manager Engg (E)
AAI, RHQ-SR, Chennai Airport

Copy to:

1. GM-Engg/SR/AAI/Chennai
2. JGM- Engg (E-E)/AAI/SR/Chennai
3. JGM (F&A)-AAI/SR/Chennai-FC accorded by AGM (F&A) vide E-Office File No: SR-29/33/2023-APD-SR-PUDUCHERRY dated: 09.05.2023
4. JGM (Vig)/AAI/SR/Chennai
5. Asst. Manager (E-E)/AAI/SR/Puducherry Airport.
6. Website / Office Copy.


17/05/23
Senior Manager Engg (E)
AAI, RHQ-SR, Chennai Airport

SCHEDULE OF WORK

Name of Work: Facility Management Contract of 500 KWp Grid Connected Solar Power Plant at Puducherry Airport.

S.No.	Description of Item	Qty	Unit	Rate (Rs.) (without GST)	Amount (Rs.) (without GST)
	SH I O&M				
1	Facility Management Contract for Monitoring & GENERAL Maintenance of 22 KV Grid Connected 500 KWp SPV PP at Puducherry Airport comprising of Solar PV Modules, DC DBs/JBs, Power Conditioning Units, String Monitoring Units, Lightning and Earthing Protection System, AC DC Cables, SCADA System, Weather Monitoring System, Transformer, 22 KV Panels etc., with One Skilled Person and One Helper on General Duty on Day Time as per the direction of EIC, Monitoring, Control and Maintenance for 100% Serviceability including Co-ordination with 22 KV Main Sub-Station of Terminal Building including Routine Cleaning of Modules as required.				
A	I YEAR	12	Months	44,999.00	5,39,988.00
B	II YEAR	12	Months	44,999.00	5,39,988.00
C	III YEAR	12	Months	44,999.00	5,39,988.00
	SH II AMC				
1	Overhauling and Servicing of 800 Amp 22 KV HT VCBs (Make : Schneider) by Deploying Authorised Service Personnel of Manufacturer/Service Dealer/ Specialised Agency experienced in similar nature of work, provided at Solar Substation (2 Panels) and Main SS (1 Panel) including drawing out of the VCB, opening the same, Inspection, Servicing, Cleaning of Contact Surfaces, Overhauling of Operating Mechanism, Lubrication of Moving Parts, Cleaning of CTs, PTs, Busbars and Chambers, Checking of Busbars and bus links, Replacement of Gasket of Panel, Checking of Electrical and Mechanical Operation, measuring of Contact Resistance, Checking of IR values, Testing of ON OFF Time, replacement of minor defective spares supplied by AAI (excluding supply of spares), Testing and Commissioning etc., as required. ISC of VCBs [Main Power House Schneider Make VCBs- 1 No. and Solar SS Schneider Make VCBs- 2 Nos.(Total 3 Nos.)]				
A	I YEAR	1	Job	19,000.00	19,000.00
B	II YEAR	1	Job	19,000.00	19,000.00
C	III YEAR	1	Job	19,000.00	19,000.00

S.No.	Description of Item	Qty	Unit	Rate (Rs.) (without GST)	Amount (Rs.) (without GST)
2	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(O/C and E/F)] provided in HV Panels (3 Panels), Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test as required.				
A	I YEAR	1	Job	7,999.00	7,999.00
B	II YEAR	1	Job	7,999.00	7,999.00
C	III YEAR	1	Job	7,999.00	7,999.00
3	Calibration of Auxillary Relays/Master Trip Relay provided in HV Panels (3 Panels), Testing of Insulation values, Pick-up Value, Drop Off, Burden etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test as required.				
A	I YEAR	1	Job	7,999.00	7,999.00
B	II YEAR	1	Job	7,999.00	7,999.00
C	III YEAR	1	Job	7,999.00	7,999.00
4	Testing of 22 KV CTs (3 Nos. in one panel) of Current Rating of Upto 400 Amps associated with Relays (OC/EF/Master) provided in HV Panels (3 Panels), Tesing of Polarity, Ratio, Insulation values, Testing of Ammeter connected in the Panel, Marking of available CT Ratio, Checking of Trip Circuit and Breaker Operation/Tripping etc., as required, conforming to IS 9124 - 1979 by Primary Injection Test (Maximum upto 50% of Rating of CTs-Testing at 25% and 50% of Original Rating) as required.				
A	I YEAR	1	Job	15,000.00	15,000.00
B	II YEAR	1	Job	15,000.00	15,000.00
C	III YEAR	1	Job	15,000.00	15,000.00
5	Filtration of Transformer Oil of following Equipments conforming to IS 6792/72 and IS 1866 as required with up to date amendments, including transporting Filtration Plant and BDV Test Kit, Replacement of Silica Gel, Acidity Testing of Oil at Chemical Testing Lab, Submission of Reports, Checking of Cable Tightness, Gasketting of Cable End Boxes etc. as required. 630 KVA, 380-415 V/22 KV, 3 Phase, 50 Hz, Step Up, OUTDOOR TYPE, Star/Delta connected Inverter Rated Solar Transformer at Solar SS. (Oil capacity 830 Ltrs [Make : Voltamp]				

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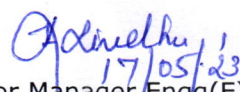
S.No.	Description of Item	Qty	Unit	Rate (Rs.) (without GST)	Amount (Rs.) (without GST)
A	I YEAR	1	Job	12,000.00	12,000.00
B	II YEAR	1	Job	12,000.00	12,000.00
C	III YEAR	1	Job	12,000.00	12,000.00
6	Supply of Transformer Oil conforming to IS 335/1983 for topping up of oil for Transformer during filtration of Oil and for replacement of Oil for the Transformers. (As per Requirement only for 3 Years Period)	200	Ltr	199.00	39,800.00
7	Testing of 630 KVA, 380-415 V/22 KV, 3 Phase, 50 Hz, Step Up, OUTDOOR TYPE, Star/Delta connected Inverter Rated Solar Transformer at Solar SS i/c testing of Insulation resistance, Magnetising current, winding resistance with mico-Ohm meter and Magnetic balance, etc., as required.				
A	I YEAR	1	Job	15,000.00	15,000.00
B	II YEAR	1	Job	15,000.00	15,000.00
C	III YEAR	1	Job	15,000.00	15,000.00
8	Comprehensive Annual Maintenance Contract of Solar Radiation and Environment Monitoring System consists of Instruments/ Sensors/ Computer Hardware and Software including Pyranometer, Temperature Module, Wind Speed and Direction Module, Relative Humidity and Rain Fall/Precipitation Instruments etc., including Servicing or Carrying out Preventive Maintenance once in six months, Breakdown Maintenance, Cleaning, Checking of Operation, providing and replacement of spares as required, Testing and Commissioning etc., as required.				
A	I YEAR	1	Year	15,000.00	15,000.00
B	II YEAR	1	Year	15,000.00	15,000.00
C	III YEAR	1	Year	15,000.00	15,000.00
9	Comprehensive Annual Maintenance Contract of SCADA consists of Instruments/ Sensors/ Computer Hardware and Software etc., including Servicing or Carrying out Preventive Maintenance once in six months, Breakdown Maintenance, Updation of Software as required, Cleaning, Checking of Operation/ Stimulation/ Monitoring/ Data, etc., providing and replacement of spares as required, Testing and Commissioning etc., as required.				
A	I YEAR	1	Year	20,000.00	20,000.00
B	II YEAR	1	Year	20,000.00	20,000.00
C	III YEAR	1	Year	20,000.00	20,000.00

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S.No.	Description of Item	Qty	Unit	Rate (Rs.) (without GST)	Amount (Rs.) (without GST)
10	Comprehensive Annual Maintenance Contract of 2 Nos. of 5 KVA UPS consists of UPS and Batteries etc., including Servicing or Carrying out Preventive Maintenance once in six months, Breakdown Maintenance, Checking of Operation, Checking of Wiring and Termination etc., providing and replacement of spares for UPS (Except Batteries) as required, Testing and Commissioning etc., as required.				
A	I YEAR	1	Year	7,000.00	7,000.00
B	II YEAR	1	Year	7,000.00	7,000.00
C	III YEAR	1	Year	7,000.00	7,000.00
11	Inspection and Servicing of 500 kWp Solar Power Panels on Half yearly basis including Servicing/Carrying out Preventive Maintenance/Breakdown Maintenance of Panels, Junction Boxes, DC Cabling, Earthing, LPS etc., including Checking Wiring, Cabling, Tightness of Cables, IP Protection of JB/CB, providing and fixing Gaskets as and when required etc., Testing and Commissioning etc., as required.				
A	I YEAR	2	Job	9,000.00	18,000.00
B	II YEAR	2	Job	9,000.00	18,000.00
C	III YEAR	2	Job	9,000.00	18,000.00
12	Cleaning of cable trenches by lifting the cables, supporting the cables, removing waste materials I/c malba, debris etc., and transporting and dumping the same to waste dumping yard etc. as required.	60	Mtr	300.00	18,000.00
13	Providing one Skilled Wireman and two Unskilled Khalasi to attend any urgent Preventive Maintenance/ Breakdown Maintenance/ Emergency Work at Electrical Installations provided in Solar Substation with necessary T&P as and when required.	72	Days	1,999.00	1,43,928.00
14	Hire Charges for deploying Excavater (JCB) i/c Operator for tracing the cable faults Providing Labour for tracing the cable faults, excavation and refilling of Cable trench after work etc., as required..	48	Hrs	1,200.00	57,600.00
15	Touble shooting for SCADA by deputing required skilled technician, identification of fault, and giving service report.	3	Day	17,999.00	53,997.00
16	Supply of following size of XLPE armoured cable with copper conductor of 1100V garde.(IS:7098) a) 7core x 1.5 sqmm	300	Mtr	199.00	59,700.00

S.No.	Description of Item	Qty	Unit	Rate (Rs.) (without GST)	Amount (Rs.) (without GST)
17	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.	300	mtr	40.00	12,000.00
18	Excavation for cable trenches in soft soil, depth upto 0.75 m including dressing of sides lift upto 1.5 m, including getting out the excavated soil, refilling with sand and or good soil after laying of cable/ pipe etc in layers of 20 cm, ramming and disposal of surplus excavated soil as directed, within a lead of 50 metres.	45	cum	1,799.00	80,955.00
Total Amount of Rs.					24,96,938.00

**(Rupees Twenty Four Lakhs Ninety Six Thousand Nine Hundred and Thirty Eight Only)
Plus Applicable GST**


17/05/23
Senior Manager/Engg(E)
AAI, RHQ, SR, Chennai.