



DEENDAYAL PORT AUTHORITY

ISO 9001:2008 | ISO 14001 | ISPS Compliant Port



Office of Executive Engineer (Electrical), Ground
Floor, Nirman Building, New Kandla, Kutch,
Pin Code 370210.

No.: EL/AC/ EOI/CoE Building./

Date: 21/01/2025.

EXPRESSION OF INTEREST [EOI]

“Centre of Excellence Building at A.O. Building, Gandhidham – Electrical Part”

(This EOI is issued to elicit Expression of Interest from the parties interested in the work and does not constitute any binding commitment from the Deendayal Port Authority to proceed with the work or invite Zany or all the parties in the subsequent bidding process. The Open Tenders will be issued subsequently.)

Executive Engineer (Electrical), DPA invites Expression of Interest for the work of “Centre of Excellence Building at A.O. Building, Gandhidham – Electrical Part” from the reputed firms from those who have executed similar work in Government/public sectors and other leading private organizations. The Expression of Interest (EOI) documents containing details of items & Approved Make List are enclosed herewith.

The interested firms are requested to submit their expression of interest for the said work in BOQ format as enclosed at Annexure I. The completed EOI (Expression of Interest) shall be submitted to the office of the undersigned on or before 24/01/2025. A soft copy of EOI is also acceptable through e-mail Id xenedpa@gmail.com & deepak.hazra@deendayalport.gov.in

Sd/-

Executive Engineer (E)
Deendayal Port Authority

ELECTRICAL ESTIMATE FOR GREEN ENERGY OFFICE

S/N	Description	Unit	Qty.	Rate	Amount
1	Providing and fixing concealed wiring for single phase sub-circuit from the main switch/meter/DBs/MCBs to the switch board with 4 X 1.5 sq.mm. copper conductor to be use3d as phase & neutral and bare copper wire as earthing and as directed by Engineer-in-Charge.	Mtr.	1400		
2	<p>Supply, Installation, Testing, and Commissioning of a 20 kVA online UPS shall have Minimum 30 minutes of Battery Backup 2nd level IGBT inverter, complying with IEC 62040-3, operating with pure sinewave waveform. The UPS shall provide a nominal active power of 20 kW under 35°C, with input voltage ratings for 380/400/415 VAC (L-L, 3-Phase), featuring a wide voltage range of 320-480 VAC under full load and 260-480 VAC for loads less than 50%. The input frequency shall be auto-sensing within 50-60Hz ±10%, ensuring compatibility with genset operations. The input current Total Harmonic Distortion (THD) shall be ≤3% at full load and ≤4% at 75% load, while the power factor shall not fall below 0.99 at 100% load, maintaining a stable operation.</p> <p>For output, the system shall deliver 400 Vac ±1% 3-Phase + N + E, with a crest factor of 03:01, maintaining a harmonic distortion of less than 2% under linear load, and less than 4% under non linear load. The system will ensure overload protection, allowing up to 110% load for one hour, 125% for 10 minutes, and 150% for one minute in online mode. In battery mode, the overload capacity shall extend to 110% for 10 minutes and 125% for 1 minute. The UPS system shall operate with an efficiency of up to 94% in double conversion mode at 50-75% load, up to 92% in battery mode, and offer more than 98% efficiency in eco mode. Features shall include a 5-inch touchscreen panel with comprehensive load, frequency, and battery information, a user-friendly interface with settings and event logs for up to 1000 events, audible alarms, and dry contact outputs. The system shall support remote monitoring via SNMP, providing one RS232, one RS485, and an SNMP slot for network integration. The UPS shall be housed in a tower architecture with an IP20 rating, designed to operate in environments between 0-40°C and relative humidity levels from 0-95% (non-condensing), with a noise level of ≤65 dBA at full load.</p> <p>Make :- Microtech / Hitachi Hirel / Sukam / Luminous</p>	No.	1		
3	<p>For 30 minute backup, min. 8000 VAH Battery</p> <p>Make :- Exide / Amaron</p>	Set	1		

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4	Supply, installation, testing and commissioning of Pure sine wave Inverter, Display Indications (Status, Fault conditions and Battery Charging) ,Standard Voltage range from 100 V~ 300 V , High Peak Current Handling Capability & High Voltage Surge Protec. 3-3.5 KVA Make :- Sukam / Microtech	No.	1		
5	Supply, installation, testing and commissioning of 12/24 V Battery system in series / parallel combinations or as single as per requirement including interconnection wiring, lugs and other required material as required with mounting stand/trolley, warranty 150/160 AH, Tail Tubular. Make :- Exide / Amaron	No.	4		
6	Supply, Installation, Testing and Commissioning of OEM approved make Magnetic Track as directed by Engineer-in-Charge.	Ft.	24		
7	Supply, installation, testing, and commissioning of a servo control system shall be required with an IP 20-rated indoor unit capable of handling a minimum of 100% unbalanced loads. The system shall have a minimum capacity of 125 kVA (3-phase input to 3-phase output), be oil- cooled, and operate within an input voltage range of 340V to 480V, delivering a steady output of 415V. It must utilize microcontroller-based technology with a minimum voltage correction speed of 70V per second and a response time of 10 milliseconds. Additionally, the system shall include a minimum of one input MCCB, one output contactor, and one bypass switch, ensuring compliance with all technical parameters. Make :- VEELINE / CAPRI	No.	1		
8	Supply, Installation, Testing and Commissioning of Hanging Light as directed by Engineer-in-Charge.	No.	4		
9	Supply, Installation, Testing and Commissioning of DALI Control System as directed by Engineer-in-Charge.	Set	1		
10	Supply, Installation, Testing and Commissioning of 50 mm profile light with all accessories and labour and as directed by Engineer-in-Charge.	Mtr.	30		
11	Supply and laying of 4 core 10 sq.mm. copper cable.	Mtr.	100		
12	Providing and fixing 12 V sealed lead acid battery of 100 AH for UPS system at Chairman's building with all accessories and labour and buy back of old battery as directed by Engineer-in-Charge.	No.	16		
13	Supply, Installation, Testing and Commissioning of Main DG Panel as under :-				
a	200 Amp 4P MCCB 25 KA with TM based release having LSIG protection	No.	1		
b	200 Amp 4P ATS	No.	1		
c	200 Amp. 4P MCCB 25 KA with TM based release having LSIG protection	No.	1		

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d	63 Amp. 4P MCB 10 KA 'C' curve	No.	2			
e	32 Amp. 4P MCB 10 KA 'C' curve	No.	5			
f	32 Amp. 2P MCB 10 KA 'C' curve	No.	1			
g	25 Amp. 2P MCB 10 KA 'C' curve	No.	2			
h	Sub Meter	No.	1			
i	63 Amp. 4 Pole RCBO 300 mA	No.	3			
j	32 Amp. 4P MCB 10 KA 'C' curve	No.	4			
k	25 Amp. 2P MCB 10 KA 'C' curve	No.	6			
l	16 Amp. 1P MCB 10 KA 'C' curve	No.	1			
m	Digital Voltmeter, Ammeter with Selector Switch, MFM Meter with RS-485					
14	Supply, Installation, Testing and Commissioning of Dimmable Control COB Light					
(a)	15 Watt	No.	75			
(b)	7 Watt	No.	45			
		TOTAL				

(Rupees _____)

(NOTE: The rates should be inclusive of all taxes, duties, fees, cess etc and all incidental charges; but exclusive of Goods & Service Tax).

Note :- All the materials shall be as per approved make list of DPA but before procurement approval from the Engineer Incharge shall be obtained. However, wherever the items are not available in the approved make list then the approval of the same shall be obtained from the Engineer-in-Charge.

Seal & Signature of Contractor

Sd/-
Executive Engineer (Elect.)
Deendayal Port Authority

Approved Make List for Electrical Items

Sr. No.	Description	Recommended Makes
1	HT VCB	SIEMENS / CROMPTON GREAVES/ABB/Schneider
1(a)	HV Gas Insulated Breakers	SIEMENS /Schneider/ABB
2	POWER TRANSFORMERS	VOLTAMP/CROMPTON GREAVES /BHARAT BIJLEE/ BHEL/ SIEMENS/ ABB/ Schneider/T&R
3	DISTRIBUTION TRANSFORMERS	EMCO/KIRLOSKAR/PATSON/VOLTAMP/ ABB / Schneider / T&R
4	RESIN CAST TRANSFORMERS	
	A) RESIN CAST IMPREGNATED	VOLTAMP / KIRLOSKAR / EMCO
	B) DRY CAST	VOLTAMP/KIRLOSKAR/EMCO
5	HT XLPE CABLES	POLYCAB/TORRENT/RPG ASIAN/ /GLOSTER/ UNISTAR/ UNISTAR/KEI/FINOLEX/HAVELS
6	LT XLPE CABLES	POLYCAB/TORRENT/RPG ASIAN/ / RALLISON/PRIMECAB/ HAVELLS/ UNISTAR/AVOCAB / ADCAB
7	LT ACB	SIEMENS/L&T/SCHNEIDER/C&S
8	PROTECTION RELAYS	AREVA/L&T/SIEMENS/ABB/C&S
9	LT PANEL	CPRI APPROVED
10	CHANGE OVER SWITCH	SIEMENS/L&T/ABB/C&S/SCHNIDER/ LEGRAND / INDOASIAN
11	SFU FOR MAIN LT DISTRIBUTION PANELS	SIEMENS/L&T/ABB/C&S
12	SFU FOR DISTRIBUTION PANELS & FEEDER PILLERS	SIEMENS/L&T/ABB/C&S/ SCHNEIDER/ LEGRAND/ INDOASIAN/HAVELLS
13	MCCB FOR MAIN LT DISTRIBUTION PANELS	SIEMENS/L&T/ABB
14	MCCB FOR DISTRIBUTION PANELS AND FEEDER PILLERS	SIEMENS/L&T/ABB/C&S/ SCHNIDER/ LEGRAND/ INDOASIAN/HAVELLS
15	MCB/ELCB/RCCB/ RCCBO FOR MAIN	SIEMENS/HAGER L&T/ABB
	LT DISTRIBUTION PANELS	
16	MCB FOR DISTRIBUTION PANELS AND FEEDER PILLERS	SIEMENS/L&T/ABB/C&S/ SCHNEIDER/ LEGRAND/ INDOASIAN/ HAVELLS/ STANDARD

17	MCB DISTRIBUTION BOARD	STANDARD / HENSEL/LEGRAND / INDOASIAN / HAVELLS
18	MULTI FUNCTION DIGITAL METER FOR MAIN LT DISTRIBUTION PANELS/DIGITAL KWH METERS	L&T/ENERCON/SECURE/L&G/ RISHABH
19	ANALOG VOLT/AMPARE METER FOR DISTRIBUTION PANELS AND FEEDER PILLERS	RISHABH/AE/ENERCON/L&T
20	SLECTOR SWITCH FOR VOLTMETER/AMPA RE METER	L&T/SIEMENS/C&S
21	POWER CONTACTOR & OVER LOAD RELAYS	L&T/SIEMENS/ABB
22	QUARTZ TIME CLOCK SWITCH	L&T/INDOASIAN/SIEMENS
23	PVC WIRE WITH COPPER CONDUCTOR	RR KABEL / KEI / POLYCAB/MILEX/GUJCAB/ STANDARD / FINOLEX / ANCHOR
24	FLUSH TYPE SWITCHES, SOCKETS, HOLDERS AND CEILING ROSES & ELECTRONIC REGULATORS	ANCHOR/MK/NORTHWEST/VINAY /PANAMA / HAVELLS
25	DOOR BELLS/CALL BELLS	ANCHOR/LEGEND/MK/NORTHWEST
26	MODULAR SWITCHES, SOCKETS, PLATES & BOXES	ANCHOR / MK / NORTHWEST / LEGRAND /HAVELLS / INDOASIAN / SIMENS.
27	PVC CONDUIT / OVAL CONDUIT & CASSING CAPPING AND ACCESSORIES	PRECISION/VULCAN/FINOLEX/ GARWARE/ PRESTOPLAST/ SWASTIK / BPI
28	GLS LAMPS & FLUORESCENT LAMPS	PHILIPS / BAJAJ / WIPRO / CROMPTON GREAVES / OSRAM / SURYA ROSHNI / GE
29	HPSV, HPMV & METAL HELIDE LAMPS	PHILIPS / BAJAJ / WIPRO / CROMPTON GREAVES / OSRAM / SURYA ROSHNI / GE

30	IGNITORS FOR HPSV, METAL HELIDE LAMPS	PHILIPS / BAJAJ / WIPRO / CROMPTON GREAVES / OSRAM / SURYA ROSHNI / GE
31	LUMINARIES	PHILIPS / BAJAJ / WIPRO / CROMPTON GREAVES / OSRAM / SURYA ROSHNI / GE/C&S
31a	LED LUMINARIES	Philips// Bajaj/Wipro/CG/Surya/Pyrotech/Syska/Nessa/C&S having surge Protection $\geq 10KV$ for fittings & internal Surge Protection for Driver of $\geq 4KV$, LED Chip only OSRAM/CREE/Philips Lumileds/Citizen/with LM- 79,80 CERTIFICATION
32	CEILING FANS	BAJAJ/ORIENT/USHA/CROMPTON GREAVES / ALMONARD/GEC
33	WALL MOUNTING FANS	BAJAJ/ORIENT/USHA/CROMPTON GREAVES / ALMONARD/GEC
34	EXHUAST FANS	BAJAJ/ORIENT/USHA/CROMPTON GREAVES / ALMONARD/GEC
35	HEAVY DUTY INDUSTRIAL WALL MOUNTING FANS	BAJAJ/ORIENT/USHA/CROMPTON GREAVES / ALMONARD/GEC or its equivalent
36	WATER COOLER	VOLTAS/SHRIRAM USHA/BLUE STAR
37	AIR CONDITIONERS	VOLTAS/CARRIER/BLUESTAR/USHA/ HITACHI/LG/ SAMSUNG/ONIDA
38	REFRIGERATORS	VOLTAS / CARRIER / BLUESTAR / USHA / HITACHI / LG / SAMSUNG / WHIRLPOOL
39	VOLTAGE STABILIZER	VEELINE / CAPRI
40	INVERTERS	SUKAM / MICROTEK
41	D.G. SETS	
	A) ENGINE	CUMMINS/GREAVES/KIRLOSKAR/ CATERPILLAR /ASHOK LEYLAND /VOLVO
	B) ALTERNATOR	STAMFORD/CROMPTON GREAVES /JYOTI/ KIRLOSKAR ELECTRIC
42	ELECTRIC MOTOR	ALSTOM/CROMPTON GREAVES /SIEMENS/ KIRLOSKAR/ABB
43	WATER PUMPS	SWASTIK / KSB
44	WATER GEYSER	BAJAJ/USHA / CROMPTON GREAVES / SPHEREHOT / RACOLD
45	LUGS & CABLE GLANDS	DOWELLS / JAINSON / BRACO

Note: In case of supply of Make of material which is neither available in the DPA approved, the said material should be supplied as per the Make decided by EIC for which written intimation will be given to the contractor.

Before procurement of material, the Make of the material should be approved by EIC in writing.

Sd/-

Executive Engineer (E)
Deendayal Port Authority

Seal & Signature of Contractor