



PRASAR BHARATI
INDIA'S PUBLIC SERVICE BROADCASTER
OFFICE OF THE ASSISTANT ENGINEER (ELECTRICAL)
CIVIL CONSTRUCTION WING: ALL INDIA RADIO
NEAR DOORDARSHAN BHAVAN
BHUBANESWAR-5

No. AE(E)/BBSR/NIQ/W-11/2019-20/ 162

Dt.01.10.2019

NOTICE INVITING QUOTATION

The Assistant Engineer (Electrical), CCW, AIR, Bhubaneswar invites sealed quotation for and on behalf of the President of India from the approved & eligible contractor of CPWD / MES / BSNL / MTNL / Rail / State PWD (Odisha)/Specialized agencies/firms working in the relevant field, so that it will reach this office up to 3.00 P.M. on **22.10.2019** and will be opened on the same day at 3.30 P.M.

* **Name of Work:** Energy Audit at DDK, Bhawanipatna, Odisha (SH: Conducting Energy Audit of whole electrical installation at DDK, Bhawanipatna along with ancillary buildings.)

Schedule of Work

Sl. No.	Description of Items	Quantity	Rate	Unit	Amount	Remarks
<u>SOQ & load details are Attached.</u>						

TERMS AND CONDITIONS

1. The schedule of quantity(SOQ) along with conditions and load details are attached for quoting their rates with required self attested documents i.e. GST/IGST registration, work experience certificate of similar work i.e. execution of conducting energy audit and authorization certificate etc.
2. The rates quoted shall be inclusive of all taxes & GST and will be remain open for acceptance for a period of 30 days.
3. Rates shall be quoted in figures as well as in words also in SOQ with company seal & signature.
4. The time for completion of the work is 03 (Three) Months.
5. No advance payment will be allowed. Payment will be made after satisfactory completion of work.
6. Sealed quotation & SOQ (may be downloaded copy) along with required documents mentioned in this NIQ&SOQ to be submitted/reached to this office within stipulated date and time mentioned above. Unsealed quotation will summarily be rejected.
7. The undersigned reserves right to cancel any or all the quotations without assigning any reason.
8. The quotations will be opened in presence of the Quotationer or their authorized representatives who intend to be present on the opening date.
9. The above Notice Inviting Quotation is also available on website www.tenderhome.com, www.allindiaradio.gov.in & www.tenderwizard.com/AIR.

Assistant Engineer (Electrical)
CCW, AIR, Bhubaneswar

SCHEDULE OF WORKS

Name of Work: Energy Audit at DDK, Bhawanipatna, Odisha (SH: Conducting Energy Audit of whole electrical installation at DDK, Bhawanipatna along with ancillary buildings.)

SI No.	Description of items	Quantity	Rate	Unit	Amount
1	Conducting energy audit of whole electrical installation by BEE certified energy manager/ auditor at Doordarshan Bhawan, Bhawanipatna, Odisha along with ancillary buildings such as Studio, Transmitter, Office, Maintenance Centre, FM Transmitter, Staff Quarters i/c air conditioning, street lighting, water pump and DG. etc. as per attached technical data sheet, preparation submission of detailed report and specific recommendations with proper justification etc. complete as required. (As per enclosed load details of 5 pages)	1 Job		Job	

Rs.

AE(E), CCW, AIR, BBSR

TECHNICAL DETAILS FORMAT

II. ELECTRICAL DETAILS

1. TRANSFORMERS

	No. 1	No. 2	No. 3	No. 4
Voltage Ratio	11000/415	—	—	—
kVA	400	—	—	—
% Impedence	5.35	—	—	—

2. ELECTRICITY CONSUMPTION

Particulars	Channel - I		Demand	Channel - II		
	Ch. I	Ch. II		Ch. I	Ch. II	
A Contract Demand kW	290 KVA		—	—		
B Maximum Demand	232 KVA			—		
C Total Energy units consumed/day	1000 Unit per day (Approx)			—		
D Average Power factor (P.F.)	99%			—		
E Average Energy Bills (Rs./Month)	Morning		Noon		Night	
F	KVA Load	232	—	232	—	—
	Peak KVA	185	—	200	—	60
	Duration	7 Hrs	—	14 Hrs	—	3 Hrs
		—	—	—	—	—

3. DETAILED LIST OF ELECTRICAL MOTORS OPERATING IN THE PLANT

(SEPARATE SHEET CAN BE ENCLOSED)

SL NO	NAME OF THE PLANT	RATING OF MOTOR (kW)	NO OF MOTORS
1	Submersible Pump Motor Set	5 HP (3.7 KW)	1 No.
2			
3			
4			
5			
6			
7			
8			
9			
10			

4. DETAILS OF CAPACITORS INSTALLED

SL NO	NAME OF THE PLANT	KVAR
1	1 No.	60 KVAR
2		
3		
4		
5		
6		
7		
8		

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Asstt. Engineer (EL)
CCW, AIR, BBSR

TECHNICAL DETAILS FORMAT

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5. CONNECTED LOAD

EQUIPMENT		TOTAL NUMBERS	LOAD IN KW (TOTAL)
A	Motors:	Greater than 10 kW	
		Less than 10 kW	
B	Air/ Gas Compressors details		Rated CFM
			NA
C	AC & Ventilation with TR capacity		Total Numbers
a)	Air Conditioner Plant Capacity in TR		Capacity in TR
b)	No. of Chiller Units		
c)	No. of Condenser Units		
d)	No. of AHUs		
e)	Others (Package Acs/Split Acs/ Windows Acs I TR -details to be given in separate sheet)		<i>Towers → 3 TR → 1 No. Split → 2 TR → 17 Nos, 1.5 TR → 9 Nos Package → 15 TR → 4 Nos, Window → 1.5 TR → 4 Nos</i>
D	Total Process Load (in kW)		<i>TXR electronic load = 30 KW</i>
E	Total Lighting Load (in kW)		
	Total Load (in kW)		

6. OTHER MAJOR EQUIPMENT:

A	Gas Turbines / Steam Turbines	Capacity & Rating
1		NA
2		
B	HRSG/WHRBs	Capacity & Rating
1		NA
2		
C	Cooling Towers	Capacity / Nos.
1		NA
2		
D	Any other	Capacity / Nos.
1		
2		

III. THERMAL DETAILS

1. HSD/LDO/RFO/LSHS - FIRED UNIT DETAILS

A. Boiler

Equipment	Make	Model	Capacity TPH	Flue Gas Temp (°C)	% Efficiency (if being monitored)
Boiler No. 1				NA	
Boiler No. 2				NA	
Boiler No. 3				NA	
Boiler No. 4				NA	
Boiler No. 5				NA	

*ARL
BEL(A)(E)*

Assit. Engineer (E.L.)
CCW. AIR. BBSK

TECHNICAL DETAILS FORMAT

B. THERMOPAC

Equipment	Make/Model	Operating Temp. (°C)		Capacity TPH	Flue Gas Temp (°C)	% Efficiency (if being monitored)
		In	Out			
Thermopac- 1	NA					
Thermopac- 2	NA					
Thermopac- 3	NA					
Thermopac- 4	NA					
Thermopac- 5	NA					

C. FURNACE/OVEN

Sl. No.	Equipment	Type of Furnace/ Oven (Oil fired / electrical / Induction/Arc)	Product	Design Capacity of Furnace/hr.	Actual Production/ hr.	Flue Gas Temp (°C)	Consumption of Fuel Oil (Lit./Ton)
1	NA						
2	NA						
3	NA						
4	NA						
5	NA						

D. DIESEL GENERATING SET

Sl. No.	Make	Model	Rating KVA	Stand by or Continuous operation	Actual Average Loading	Avg. kWh Units/ lit of oil
1	Abhoke Leyland		82.5	Stand by		
2	Kirloskar		62.5	- 20 -		
3	Kirloskar		62.5	- 20 -		
4	Kirloskar Green		40.0	- 20 -		
5						
6						

2. DETAILS OF STEAM

A. STEAM CONSUMPTION DETAILS

Sl. No.	Name of Equipment	MT/hr	Pressure kg/cm ²	Temp. °C
1	NA			
2				
3				
4				

3. CONDENSATE RECOVERY

- i) Whether condensate recovery is being done : YES/ NO NO
- ii) Approximate quantity of percentage of condensate recovery :

4. STEAM TRAPS

- i) Approximate No. of steam traps being use :
- ii) Type of Steam traps : NA

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TECHNICAL DETAILS FORMAT

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DDK, Bhavnipatna

IV. ILLUMINATION DETAILS

Room/Plant/Location	Type of Lamp (Bulb/Tube/Light/Others)	Watt	Quantity
1) Studio Block	Tube Light	2x40 Watt	5 Nos.
	LED	36W	20 NOS
		20 W	20 NOS
2) Office Block / TAR Block	P.L. Light	2x36Watt	25 NOS
	Tube Light	1x40Watt	25 NOS
	9 Watt LED Light	9 Watt	30 NOS.
3) FM Building	T5 - Tube	2x28 Watt	3 NOS.
	T5 - Tube	1x28 Watt	5 NOS
	LED Panel (2'x2')	36 Watt	9 NOS
4) DDMC Building	Fl. Tube	2x40Watt	20 NOS.
5) i) Street Light -	HPSV Fitting	250 Watt	25 Nos.
	CFL Fitting	20 Watt	3 Nos.
	Metal Halide Fitting	150 Watt	1 Nos.
	LED	30W	27 NOS.
	LED	40W	7 NOS.

NOTE: PLEASE ATTACH ADDITIONAL SHEET IF REQUIRED

Details of Staff Stop. Load temporarily connected to same transformer, is attached separately.

DDK
24/11/16

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Staff Quarters load connected to
same transformer at DDK, Bhawanipatna.

23 Nos. Quarters \rightarrow 3 KW for each Qtr. = 69 KW

APL
AE(P)E

Asstt. Engineer (EL)
CCW, AIR, BBSR