



**BHARAT HEAVY ELECTRICALS LIMITED**  
**RAMACHANDRAPURAM: HYDERABAD – 32**  
**POWER DISTRIBUTION, M&S (350-0)**

**Annexure - II**

**SUB: Consultancy services for the implementation of ISO 50001 EnMs (Energy Management System) certification.**

S No	Description	Bidders Comment Yes/No
1	To train and guide staff of BHEL, Hyderabad for getting certified as ISO 50001:2011.	
2	Consultant shall help to	
a	• Define Energy Objective	
b	• Review Energy of existing system.	
c	• Identification of significant Energy users (SEU).	
d	• Fixing of Energy performance Indicators (EnPIs).	
e	• Fixing of Energy target.	
f	• Fixing of base line for the EnPI's.	
g	• Identify, prioritize and record opportunities for improving Energy performance.	
h	• Preparation of procedure manuals.	
i	• Preparation of operational control.	
j	• Valuation of compliance with legal other requirement.	
k	• Help in developing action plan.	
l	• Training to the employees on ISO 50001.	
m	• Documentation related to ISO 50001:2011 EnMS.	
n	• Internal audit: Training and help in internal audit, trained internal auditors of BHEL Hyderabad will participate in this to get on hand experience of conducting audit. Consultant will provide guidance for initiating corrective action for the reported audit findings.	
o	• Management review meeting: Training and help in management review meeting.	
p	• Helping till certification.	
3	Consultant shall develop templates which will be filled by BHEL, Hyderabad for all documentation and help BHEL, Hyderabad to get documentation completed in all respect.	
4	<b>Training should be given to the BHEL Staff in the following way:</b>	
a	Training should be given by consultant staff who are certified ISO 50001 auditors.	

b	In the first month, Training programme for the implementation of ISO 50001 to be given. Training programme should be effective and to be given to staff selected by various departments of BHEL Hyderabad.	
c	In the Second month, training programme to be conducted for the conduction of internal Audit in BHEL Hyderabad.	
d	Introductory programmes to be conducted for middle level officers and top level officers.	
e	Total no. of mandays for Training and other activities as in the scope mentioned should be a minimum of 50 Mandays	
f	Training modules to be appropriate & class lecture type and selected films/videos to be shown.	
<b>5</b>	<b>Special Conditions</b>	
a	Consultant has to submit road map /detailed activity chart along with tender for implementation of energy management system toward certification of ISO 50001.	
b	On award of work road map /activity chart will be reviewed and can be re scheduled by BHEL Hyderabad.	
c	Following facilities shall be provided by BHEL:- • Hall / LCD Projector etc. for training program	
d	Consultant has to provide soft copies of reading/training material to BHEL.	
<b>6</b>	<b>Payment Terms</b>	
	30% - payable on completing first phase of training (first phase: Staff/ designated officers are well trained to prepare documentation for implementing ISO 50001)	
	30%- payment on completion of training for internal audit and completion of internal audit.	
	20% - payment on maintaining the system and applying for certification to the certifying agency.	
	20% - payment on certification	
	SD will be released after 6 months of certification	
7	Start of work shall be the date (preferably Monday) within 15 days from the date of placement of work order.	
8	<b>Completion of work:</b> Total duration for implementation of ISO 50001 till certification through external agency is 6 months from the date of placement of work order.	

## **BHEL Hyderabad Details**

### **Relevant details of BHEL Hyderabad for consultancy services for above subject:**

**Nature of Business activity of unit:** Manufacturing of Power Plant Equipment, Heavy Electric equipment/ Machines.

**No. of Working Hours/day:** 16 Hrs(8 hrs/shift) and few places 3shift basis.

**No. of Working days in a week:** 6

**Scope and Boundaries for ISO 50001:** Complete factory includes Admin Building (5 floors), IT dept. , DR site, ALL production Blocks (01, 02, 03, 04, 05, 06, 07, 08, 09, 51, 70, Services), Stores, Fire station, Factory Medical center ( small facility), Canteens, Instrumentation, and Annexes. (Township not considered)

**No. of Manpower:** Managerial Cadre: 1389, Officer Cadre: 897, worker level: 2456 and contract workers: 3380 (Total: 8122).

**Local Language used by worker level staff:** Telugu