

	<u>BHARAT HEAVY ELECTRICAL LIMITED</u>				Enquiry No. :	
	UNIT'S ADDRESS:				Due Date :	
	UNIT'S PHONE NO.:				Supplier Qtn. No.:	
	<u>CONTACT PERSON'S NAME/DESGN./PHONE NO./E-MAIL (FROM PURCHASE DEPT.)</u>				Date :	
<u>SPECIFICATION CUM COMPLIANCE CERTIFICATION FOR OXYGEN ANALYSER SYSTEM</u>						
NOTE:-						
	1. Vendor must submit complete information against all Clauses.					
	2. The "Offered" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.					
	3. The offer and all documents enclosed with offer should be in English language only.					
ADDRESS OF THE SUPPLIER :		ADDRESS OF LOCAL (BHOPAL/MP) AGENTS :				
TELEPHONE NOS.:		TELEPHONE NOS.:				
FAX NOS.:		FAX NOS.:				
E-MAIL ADDRESS :		E-MAIL ADDRESS :				

SCOPE: SUPPLY, OXYGEN ANALYSER SYSTEM AS SPECIFIED BELOW						
SNO	DESCRIPTION FOR BHEL REQUIREMENT		SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
1.0 PURPOSE :						
1.1	Purpose : For the Measurement of Dissolved Oxygen in the Test bed water during Hydro Turbine Model Testing.					
2.0 SCOPE OF SUPPLY						
2.1	Oxygen Analyser System including sensor ,Converter, Cables and other necessary items.	1 Set	Vendor to confirm			
3.0 SPECIFICATION :						
3.1 General Requirements:						
	The Oxygen Analyser System should be able to measure the dissolved oxygen of water which is flowing.		Vendor to confirm			
3.2 Process						
3.2.1	Medium:	Clean water	Vendor to Confirm			
3.2.2	Maximum Water Velocity and pressure at which sensor can work properly	Higher velocity would be preferred.	Vendor to Specify			
3.2.3	Working Temperature:	8°C to 40°C	Vendor to Confirm			
3.2.4	Working Environment:	Laboratory	Vendor to Confirm			
3.3 Sensor						
3.3.1	Suitable Sensor for above Oxygen analyser		Vendor to Specify			
3.3.2	Mounting details	Easy to mount and remove from pipe.	Vendor to Specify			
3.4 Oxygen Analyser						
3.4.1	Measurement Range					
3.4.1.1	Dissolved O ₂	0 - 50 mg /l or more	Vendor to Confirm			
3.4.2	Linearity	0.03 mg/l or better	Vendor to Confirm			
3.4.3	Repeatability	0.03 mg/l or better	Vendor to Confirm			
3.4.4	Accuracy	0.05 mg/l or better	Vendor to Confirm			

SNO	DESCRIPTION FOR BHEL REQUIREMENT		SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
	6.0 ERECTION AND COMMISSIONING					
6.1	Erection and commissioning of Oxygen analyser shall be done by BHEL. However, in case of any problem in installation the vendor shall assist BHEL.		Vendor to Confirm			
	7.0 DOCUMENTATION					
7.1	Supplier to supply catalogue and manual (operation & maintenance) at the time of supply of the item. Maintenance manual along with complete circuit diagram & component & PCB details to be supplied.	4 No.	Vendor to Confirm			
7.2	One copy of relevant technical documents must be submitted along with the offer.		Vendor to Submit			
7.3	The technical document should include detail procedure for zero calibration and span calibration		Vendor to Confirm			
	8.0 GUARANTEE :					
	The supplier should give guarantee of proper functioning of oxygen analyser for 18 months from the date of receipt. Any defect during this period will be rectified by the supplier free of cost.		Vendor to confirm			

SNO	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
9.0	SPARES:				
9.1	Itemised breakup of spares required for the Oxygen analyser in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation should be offered by vendor. Unit Price of each item of spare should be specified.	Vendor to Specify			