

SPECIFICATION OF VIDEOSCOPE

SNO	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
1	Purpose: For internal inspection lube oil passages of Steam Turbine Bearing Pedestals, compressor end covers, compressor assemblies, etc.	vendor to confirm			
2	Diameter of Scope shall be between \varnothing 6.0 mm and \varnothing 8.0 mm (both values inclusive).	vendor to confirm and furnish details			
3	Minimum Scope Length: 3.0 meters , with camera tip protecting cap.	vendor to confirm and furnish details			
4	Illumination Method: Integrated High Intensity LED illumination	vendor to confirm and furnish details			
5	Camera type: CCD (Charge coupled device)	vendor to confirm and furnish details			
6	Minimum forward field of view: 80°	vendor to confirm and furnish details			
7	Depth of Field for forward view	Minimum: 25 mm or less, Maximum : 175 mm or more	vendor to confirm and furnish details		
8	Minimum Side field of view: 60°	vendor to confirm and furnish details			
9	Depth of Field for side view	Minimum: 5 mm or less, Maximum: 200 mm or more	vendor to confirm and furnish details		
10	Minimum Probe tip Articulation Angle: 100°, with 4-way directional movement.	vendor to confirm and furnish details			
11	5" (Minimum) Monitor.	vendor to confirm and furnish details			
12	The equipment shall be able to run directly on 230 V/50 Hz AC Power Supply.	vendor to confirm			
13	Suitable voltage stabiliser shall be provided	vendor to confirm			
14	The equipment shall be provided with Battery Power Supply with minimum 2 hours of back-up.	vendor to confirm			
15	Travel Case shall be provided.	vendor to confirm			
16	Main Control unit shall have following features:				
16.1	Picture freeze mode.	vendor to confirm and furnish details			
16.2	Digital Zoom	vendor to confirm and furnish details			
16.3	Brightness adjustment and picture enhancement	vendor to confirm and furnish details			

16.4	Menu driven selection.		vendor to confirm and furnish details			
16.5	Storage and Recording management shall have following features:		vendor to confirm and furnish details			
16.5.1	Still image recording and play back		vendor to confirm and furnish details			
16.5.2	File operation like copy, move, delete and folder management etc.		vendor to confirm and furnish details			
16.5.3	Recording media (Min. 1 GB capacity) shall be removable and suitable for playing on a Windows-based PC.		vendor to confirm and furnish details			
17	Tip Adapters suitable for specified requirements (including Clause 6.0 to 9.0) shall be supplied		vendor to confirm and furnish details			
18	Battery Charger		vendor to confirm			
19	Accessories:	Accessories, if any, required for meeting the requirements specified in Cl. No. 1 to be quoted.	vendor to confirm and furnish details and quote			
20	WARRANTY					
20.1	Vendor shall offer warranty of 24 months for the total system from the date of successful commissioning / prove out and handing over. Any spare required during warranty period shall be arranged by the vendor free of cost and duty levied is to be borne by the vendor. Vendor to provide full warranty of the total system including all accessories supplied along with the machine.		vendor to confirm			
21	COMMISSIONING AND PROVE -OUT					
21.1	Commissioning of the equipment and demonstration of trouble free operation of the features of the equipment on Bearing Pedestals shall be done by the vendor at BHEL.		vendor to confirm			
22	TRAINING					
22.1	Training for a period of three working days on operation of the equipment shall be provided at BHEL works.		vendor to confirm			
23	DOCUMENTATION					
23.1	Five sets of following documents in hard copies and 2 sets in soft form in English language shall be supplied along with the machine.		vendor to confirm			
23.1.1	Operating manual		vendor to confirm			
23.1.2	Maintenance manual		vendor to confirm			
24	SPARES					

25.1	Mechanical, electrical and electronic spares used on the machine in sufficient quantity as per recommendation of Vendor for 2 years, two-shift trouble free operation shall be supplied by vendor. Itemised breakup of spares shall be furnished by the vendor.	vendor to confirm and furnish details			
26	QUALIFYING CONDITIONS				
26.1	Only those vendors who have supplied and commissioned at least one number Videoscope of the offered scope diameter, Illumination Method and Camera type (in clause number 2, 4 and 5) in last 10 years and the supplied Videoscope is presently working satisfactorily for more than one year after commissioning shall quote. However, if such a machine had been supplied to BHEL, then such machine should be presently working satisfactorily for more than six months after its commissioning and acceptance in BHEL.	vendor to confirm and furnish details			
26.2	The following information should be submitted by the vendor about the companies where similar Videoscopes have been supplied. This is required for all vendors for qualification of their offer.	vendor to confirm and furnish details			
26.2.1	Name & complete address of the customer / company, where such Videoscope(s) is(are) installed.	vendor to furnish details			
26.2.2	Year of Commissioning of the supplied Videoscopes.	vendor to furnish details			
26.2.3	Broad specifications of the supplied Videoscope i.e. Model, Diameter of Scope, Illumination Method, Camera type, Monitor size, etc.	vendor to furnish details			
26.2.4	Application for which the Videoscope has been supplied.	vendor to furnish details			
26.2.5	Performance certificate with specific mention of Model, Diameter of Scope, Illumination Method, Camera type, Monitor size, etc. from the customer(s) regarding satisfactory performance of the machine supplied to them.	vendor to confirm and furnish details			
26.2.6	Name, designation, address, Phone no., FAX no. and email address of the issuer of the Performance Certificate/ contact person of the customer.	vendor to confirm and furnish details			
26.2.7	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/incorrect, the offer shall be rejected.	vendor to confirm			
27.0	SERVICING: The vendor shall have authorised service centre in India with trained engineers.	vendor to confirm and furnish details			