

### Technical Specification of Videofibroscope

Specification. no.: QC-1/2015-16/VS/Rev00  
Indent no. 20154610

#### Purpose:

Facility Video fibro scope shall be used to check the inside cleanliness , presence of foreign particles of stator bars, connecting bus bars and headers of TG sets up to 1000 MW.

#### Scope:

The scope of supply includes design, manufacturing, testing, supply, installation & commissioning of video fibro scope system at BHEL Haridwar.

#### Technical specification

1. Probe diameter- 6 mm
2. Cable length along with probe- 3000 mm
3. Forward viewing with field of view min 60<sup>0</sup>
4. Distal end bending shall be in all four (up/down & left /right) directions minimum 90<sup>0</sup> (all sides)
5. Integrated with high performance light source.
6. Color monitor approximate size 6.0" or more
7. Video recording of minimum 60 minutes on unit pack
8. Light weight to use video fibro scope (Equipment weight Maximum 8 Kg.)
9. Rechargeable battery with minimum 2 hours operation in single recharge with battery charger
10. Side view tip adaptor ( Forward viewing interchangeable with side view adaptor)
11. Drive capacity minimum 2 GB
12. Clear inspection image quality
13. CCD Image sensor
14. Still image
15. Video clips
16. USB port
17. Protective & durable carrying box.
18. Pack (Portable)
19. Videofibroscope should have the feature of Interchangeability of probe with the base unit

Vendor should indicate any other operating/ environmental requirement for safe and trouble-free operation of system and also any specific requirements of the system for continuous operation over prolonged periods as may be required in process monitoring/control applications.

31/12/16  
 (OBS/Am)

Rohit Mishra  
 P6/QC-1

**Commissioning & training:**

- The supplier shall be fully responsible for installation and commissioning of the equipment at BHEL works, Haridwar.
- Successful prove out on connecting bus bar provided by BHEL, at BHEL WORKS, Haridwar.
- Imparting necessary training on use of the equipment at BHEL, Haridwar works during commissioning.

**Warranty:**

- Warranty for the performance of at least 12 months period from the date of commissioning or 18 months from date of receipt of material at BHEL Haridwar works whichever is later.

**Documents:**

- Party shall supply two copies of Operation & Maintenance manual in English along with schematic/circuit diagram.
- Test Certificate of the equipment is required.
- Warranty certificate

**Packing:**

- The equipment shall be suitable packed to prevent any damage during transport and storage.

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**Pre Qualification Requirement ( PQR)**

1. The offered instrument should have been supplied & commissioned by the bidder within last five years prior to tender opening date (submit copy of un priced purchase order )
2. Technical details of the offered instrument in the form of catalogue/ brochure etc. to be submitted by vendor.
3. Performance certificate of the offered instrument from at least one customer /user regarding satisfactory performance of at least one year or more from date of installation at customer/user premises to be submitted.
4. Vendor should be original equipment manufacturer (OEM) or authorized dealer/distributor of OEM .In case the party is dealer/distributor, they should furnish the details of OEM and valid authorization certificate from OEM.
5. The performance certificate from customer/user as per Sl. No. 3 should have following details:
  - 5.1 Name and address of customer
  - 5.2 Name of contact person
  - 5.3 Phone no. & email id of contact person

Note: BHEL reserve the right to verify the information provided by bidder. The offered bid shall be rejected for any false or incorrect information.

