

TECHNICAL SPECIFICATION FOR RIGID BORESCOPE
SPECIFICATION NO. EMT-6784, Rev-01

| SL. NO. | DESCRIPTION OF BHEL REQUIREMENT | REQUIRED | OFFERED | DEVIATION |
|---------|--|-------------------|---------|-----------|
| 1.0 | PURPOSE :- | | | |
| | Rigid Borescope will be used for checking the presence of foreign particles inside water box chamber of stator winding bar of 500/600/660/700/800 MW TG set. | | | |
| 2.0 | SCOPE :- | | | |
| | The scope of supply includes the design, manufacturing and supply of Rigid Borescope. The scope also includes commissioning & performance proving of Rigid Borescope at BHEL Haridwar works. | 01 No. | | |
| 3.0 | TECHNICAL SPECIFICATION OF RIGID BORESCOPE:- | | | |
| 3.1 | Outer Diameter of Probe= 5.9 to 6.5 mm | Vendor to confirm | | |
| 3.2 | Working Length= 250-320 mm | Vendor to confirm | | |
| 3.3 | Field of view (FOV) = 45° - 90° | Vendor to confirm | | |
| 3.4 | Direction of view (DOV) = 30° - 45° | Vendor to confirm | | |
| 3.5 | Light Source 230 V AC, 50 HZ to match with the Sl. No. 3.1 to 3.4 of Borescope. | Vendor to confirm | | |
| 3.5.1 | Length of lead from light source to light guide connector should be 3 meters (Approx). | Vendor to confirm | | |
| 3.6 | Protecting sheath shall be provided for additional protection of borescope. | Vendor to confirm | | |
| 3.7 | Power supply cable (3 meter length approx.) for connecting the light source is in the scope of the vendor. | | | |
| 3.8 | Vendor shall furnish the technical specification / catalogue for the offered Borescope. | | | |

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| 4.0 | SPARES | | | |
| 4.1 | Following item is required as spare along with Rigid Borescope:- 1. Lead from light source to light guide connector. | 1 no. | | |
| 5.0 | ENVIRONMENTAL CONDITION:- | | | |
| 5.1 | Ambient Temperature- 0°C to 45°C | | | |
| 5.2 | Relative humidity- 30 to 90 % | | | |
| 5.3 | Voltage fluctuation- +/- 10 % | | | |
| 6.0 | GENERAL :- | | | |
| 6.1 | Commissioning of Rigid Borescope shall be done by the vendor. Vendor shall demonstrate function of the Borescope during commissioning. Borescope will be accepted only after successful demonstration at BHEL, Haridwar works. | | | |
| 6.2 | During commissioning if any item is damaged / not functioning, vendor shall replace the same without any cost to BHEL. | | | |
| 6.3 | Vendor shall furnish 3 sets of detail operation & maintenance manual in English language with the consignment. | | | |
| 6.4 | Vendor shall supply the Rigid Borescope, light guide, spares, etc. in proper casing so, that items are not damaged during transportation and storage. | | | |
| 7.0 | GUARANTEE/WARRANTEE ^{R-3} | | | |
| 7.1 | Vendor shall provide 12 months guarantee/warrantee from date of commissioning of Borescope. | Vendor to confirm | | |

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