

**Ref.: HY/PUMPS/QC/08 Rev.00**

**Specification of Flexible Borescope**

Flexoscope:

Insertion diameter	:	6.0 mm± 1.5 mm
Length	:	1800 mm
Viewing angle	:	0 <sup>0</sup>
Field of vision	:	100 <sup>0</sup> or more
Outer wire sheath	:	Metal
Length of rigid tip	:	11 mm or less
Mini. radii of curvature lens	:	8 mm
Mini radii of curvature of hose	:	15 mm
Direction of lens at the tip	:	90 <sup>0</sup> and 180 <sup>0</sup> (Can be locked any position)

Cold – light projector:

Lamp type	:	Halogen lamp
Power	:	150 Watt
Light intensity	:	infinitely variable
Supply	:	230 V / 240 V, 50/60 Hz
Card length	:	400 cm (minimum)
Weight	:	less than 3.5 kg.

Fiber Glass conductor:

Length	:	250 cm
O.D of the sheath	:	6.5 mm
Active diameter	:	3.4 mm
Outer sheath	:	silicon sheath and stainless steel sheath.
Other conditions	:	water proof, oil resistant.

CCD Colour – Video camera, PAL and C Mount Lens:

Video out put	:	Y/C and BNC output signal
Supply	:	230 V / 240 V, 50/60 Hz
Scanning area	:	1/3 inch
Text display	:	24 alphanumeric characters
Focal length	:	12 mm
Image sensor	:	½” CCD chip
Picture elements	:	752 (H) X 582 (V) pixel (Pal) 768 (H) x 494 (V) pixel (NTSC)

Resolution	:	> 450 lines
Depth of focus	:	150 mm toy (HEADCAM only)
Min sensitivity	:	3 Lux
Lens	:	integrated special lens, C-Mount
Weight	:	less than 200 gm
White balance	:	selectable

Color Monitor, screen 35 cm (14" CRT Monitor):

Monitor device	:	colour, sony LCD with recording and storage device.
Screen	:	35 cm (min)
Compatibility	:	Above all instruments are to be compatible and interchangeable.
Case	:	Rigid case to carry all components in contact.
Commissioning	:	To be commissioned at BHEL
Training	:	To be demonstrated to BHEL persons.
Spares	:	probable spares for maintenance of equipment for 5 years.
O & M Manuals	:	3 hard copies and one soft copy to be provided