


दिनांक एवं हस्ताक्षर SIGN & DATE			उत्पाद क्रय विनिर्देश		PR00057																																											
	PRODUCT PURCHASE SPECIFICATION		पृष्ठ Page	3 1	का of	1 3																																										
सामग्री सूची संख्या को अंकित करना है SUPERSEDES INVENTORY NO	<p>1.0 Name of Equipment: Atomic Absorption Spectrophotometer</p> <p>2.0 General: Instrument is required for measurement of concentration of metals and heavy metals in liquids.</p> <p>3.0 Specifications of Equipment:</p> <p>1. Optics : True Double Beam optical design</p> <p>2. Monochromator : The system should be based on Echelle Grating/ Aberration Corrected Czerny-Turner Mounting Hollow Graphic Grating or equivalent with grating lines 1600 lines/mm or more</p> <p>3. Focal Length : 250 mm or more</p> <p>4. Band width : Variable Band Width from 0.2 to 1.0 nm or 0.2 to 2 nm with automatic switching</p> <p>5. Detector : Detector technology based on PMT/SSD or equivalent</p> <p>6. Wavelength : Min :185 – 190 nm; Max : 900 nm</p> <p>7. Sensitivity : 0.9 abs. for 5 ppm Cu solution</p> <p>8. Turret : Six lamp turret or more</p> <p>9. Burner Assembly : Air Acetylene burner head and N₂O burner head</p> <p>10. Software for Parameter Control : All the method parameters related with lamp selection, calibration, control of flow gases should be through integrated software</p> <p>11. Gas Control : The instrument should have programmable gas controls both for air, N₂O and C₂H₂</p> <p>12. Software : Software for controlling analyzer, setting-up the method parameters, analyzing the samples and performing calibration</p>																																															
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical. Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	<p>स्वाधिका एवं गोपनीय इस प्रलेख में दी गई सूचना भारत में, संश्लेषण की सम्पत्ति है इसका प्रकाश एवं प्रसारण अन्य से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए ।</p>																																															
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उत्पाद क्रय विनिर्देश

PR00057

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PRODUCT PURCHASE SPECIFICATION

SUPERSEDES
INVENTORY NO.

सामग्री सूची संख्या को
अधिकारिता करना है

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स्वतंत्र एवं गोपनीय

इस प्रलेख में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की संपत्ति है इसका प्रयोग एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।

दिनांक एवं दिनांक
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- 13. Lamps for AAS : Coded Hollow Cathode lamp or better for Automatic recognition & automatic other parameter settings, e.g. lamp current, slit width for following elements- *Copper, Chromium, Iron, Nickel, Cobalt, Aluminum, Sodium, Potassium, Zinc, Cadmium, Magnesium, Manganese, Silica, Antimony, Barium, Calcium, Lead, Silver, Tin, Bismuth, Mercury, Arsenic, Selenium, Cadmium*
- 14. Standards for calibration : Standards (Reputed Make) be provided for all the elements as mentioned above in pack of 100 ml (min).
- 15. Background Correction : Deuterium background correction
- 16. Hydride Vapour Generator System : Heated automatic Hydride Vapour Generator system for the high sensitivity determination of Mercury and metallic hydride forming elements such as Bi, As, Sb, Sn, Se and Te, alongwith sample flask, reagent reservoir and quartz cell, software controlled.
- 17. Graphite Furnace : Heated Graphite Atomizer system (Temp. Ambient to 3000°C), High Sensitivity Furnace for lowest detection limits, e.g., Pb : 0.06 ppb, Mn : 0.02 ppb; easy switch over between Flame and Furnace with software controlled Dual Atomiser System. The furnace should have suitable cooling system.
- 18. Auto Sampler : Auto sampler for Flame and Furnace
- 19. Fume Extraction System : Equipment should be supplied along with compatible Fume Extraction system
- 20. Power Source : 230V AC, 50Hz
- 21. Voltage Stabilizer : 5 KVA or more
- 22. Provision for advance safety like gas leak detection and vibration sensor.
- 23. Argon cylinder, Acetylene gas cylinder and Nitrous Oxide cylinder along with suitable regulators, colour coded pressure tubings and air compressor should be supplied from reliable/standard Indian source.

REV.NO. 03 dated 26.06.2015

सामग्री सूची संख्या
INVENTORY NO.

निर्माणाकर्ता
PREPARED BY


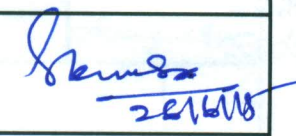
S.K. Mishra

S.K. Mishra
26/6/15

जांचकर्ता
CHECKED BY

Dr. S. Bhatnagar

Dr. S. Bhatnagar
26/6/15

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सामग्री सूची संख्या को SUPERSEDES INVENTORY NO.	<p>24. Computer System : Branded PC & Printer (HCL/HP/Dell/Lenovo) compatible with the software mentioned above with Intel Core i5 or better Processor, 18" or better LED Monitor, Windows 8.1 or better, 4GB DDR3 or better RAM and HDD 1.0 TB or better; Black & White Laser Printer with speed 25 PPM or better.</p> <p>25. Detailed printed Catalogue must be provided with the offer submitted.</p>				
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical. Limited It must not be used directly or indirectly in any way detrimental to the interest of the company	<p>4.0 General Terms & Conditions</p> <p>4.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment including circuit diagram shall be supplied.</p> <p>4.2 Installation and Commissioning: The supplier shall install & commission the equipment at site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user. Cost of installation & Commissioning, if any, should be indicated separately.</p> <p><i>Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.</i></p> <p>4.3 Guarantee: The equipment alongwith PC, Printer, Stabilizer etc. shall be guaranteed for satisfactory performance for a period of 12 months from the date of installation or 18 months from date of dispatch, whichever is earlier.</p> <p><i>Failing to comply to the Guarantee clause, the offer will be rejected straightaway.</i></p> <p>4.4 Packing & Dispatch: The equipment / accessories shall be packed in a suitable water proof/vibration proof packing box capable of bearing air and road transit hazards. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number. Also, "PCRI HWR" should be written in bold letters on all four sides of the packing box.</p>				
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