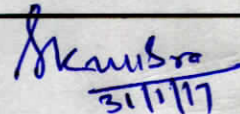
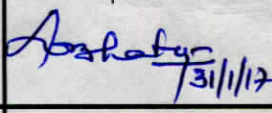
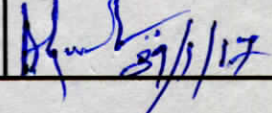
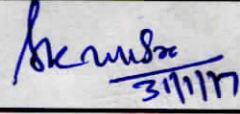
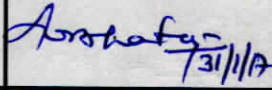
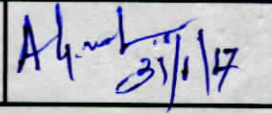


दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश		PIRRPC14031HWW1 MC:ZZPC03114015																									
		PRODUCT PURCHASE SPECIFICATION		पृष्ठ Page	3 का 1 1 of 3																								
सुपरसेड्स INVENTORY NO. सामग्री सूची संख्या को अपडेटिंग करता है	1.0 Name of Equipment: Atomic Absorption Spectrophotometer 2.0 General: Instrument is required for measurement of concentration of metals and heavy metals in liquids. 3.0 Specifications of Equipment: <table border="0"> <tr> <td>1. Optics</td> <td>: True Double Beam optical design</td> </tr> <tr> <td>2. Monochromator</td> <td>: 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</td> </tr> <tr> <td>3. Focal Length</td> <td>: 250 mm or more</td> </tr> <tr> <td>4. Band width</td> <td>: Variable Band Width from 0.2 to 1.0 nm or 0.2 to 2 nm with automatic switching</td> </tr> <tr> <td>5. Detector</td> <td>: Detector technology based on PMT/SSD or equivalent</td> </tr> <tr> <td>6. Wavelength</td> <td>: Min : 185 – 190 nm; Max : 900 nm</td> </tr> <tr> <td>7. Sensitivity</td> <td>: 0.9 abs. for 5 ppm Cu solution</td> </tr> <tr> <td>8. Turret</td> <td>: Four lamp turret or more</td> </tr> <tr> <td>9. Burner Assembly</td> <td>: Air Acetylene burner head and N₂O burner head</td> </tr> <tr> <td>10. Software for Parameter Control</td> <td>: All the method parameters related with lamp selection, calibration, control of flow gases should be through integrated software</td> </tr> <tr> <td>11. Gas Control</td> <td>: The instrument should have programmable gas controls both for air, N₂O and C₂H₂</td> </tr> <tr> <td>12. Software</td> <td>: Software for controlling analyzer, setting-up the method parameters, analyzing the samples and performing calibration</td> </tr> </table>					1. Optics	: True Double Beam optical design	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	3. Focal Length	: 250 mm or more	4. Band width	: Variable Band Width from 0.2 to 1.0 nm or 0.2 to 2 nm with automatic switching	5. Detector	: Detector technology based on PMT/SSD or equivalent	6. Wavelength	: Min : 185 – 190 nm; Max : 900 nm	7. Sensitivity	: 0.9 abs. for 5 ppm Cu solution	8. Turret	: Four lamp turret or more	9. Burner Assembly	: Air Acetylene burner head and N ₂ O burner head	10. Software for Parameter Control	: All the method parameters related with lamp selection, calibration, control of flow gases should be through integrated software	11. Gas Control	: The instrument should have programmable gas controls both for air, N ₂ O and C ₂ H ₂	12. Software	: Software for controlling analyzer, setting-up the method parameters, analyzing the samples and performing calibration
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स्वतंत्रता एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है। इसका प्रसार एवं उपयोग के बिना भारत हेवी इलेक्ट्रिकल्स की लिमिटेड की अनुमति के बिना न किया जाए।																													
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सहायक विभाग AGREED DEPTT.	नाम NAME	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	निर्माणकर्ता PREPARED BY	जांचकर्ता CHECKED BY	पर्यवेक्षणकर्ता SUPERVISED BY																								
			S.K. Mishra	Dr. S. Bhatnagar	Dr. S. Bhatnagar																								
			स्वीकृति APPROVED : Ambrish Goel																										
REV.NO.	00		निर्माण PREPARED : S.K. Mishra	जारी ISSUED : Dr. S. Bhatnagar	दिनांक DATE : 31.01.2017																								
Dt.	31.01.2017																												

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दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश		PIRRPC14031HWW1 MC:ZZPC03114015			
		PRODUCT PURCHASE SPECIFICATION		पृष्ठ	3	का	2
सुपरसेड्स INVENTORY NO.				Page	2	of	3
समाप्ति सूची संख्या को अधिकृतित करना है		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- <i>Copper, Chromium, Iron, Nickel, Cobalt, Aluminum, Sodium, Potassium, Zinc, Cadmium, Magnesium, Manganese, Silica, Antimony, Barium, Calcium, Lead, Silver, Tin, Bismuth, Mercury, Arsenic, Selenium</i> 14. Background Correction : Deuterium background correction 15. 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. 16. Power Source : 230V AC, 50Hz 17. UPS : 20 KVA 18. Air Compressor with moisture trap etc. 19. Provision for advance safety like gas leak detection with flame shut off. 20. Computer System : Branded PC & Printer 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. 21. The system should be upgradable with Graphite Furnace. 22. Detailed printed Catalogue must be provided with the offer submitted.					
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company							
स्वाधिकाार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयोग एवं अवस्था रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में कतिपयक हो न किया जाए।							
हस्ताक्षर एवं दिनांक SIGN & DATE							
समाप्ति सूची संख्या INVENTORY NO.	REV.NO.	00	निर्माणकर्ता PREPARED BY	S.K. Mishra	 31/1/17		
			जांचकर्ता CHECKED BY	Dr. S. Bhatnagar	 31/1/17		
			स्वीकृति APPROVED BY	Ambrish Goel	 31/1/17		

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश		PIRRPC14031HWW1 MC:ZZPC03114015			
				पृष्ठ	3	का	3
		PRODUCT PURCHASE SPECIFICATION		Page	3	of	3
SUPERSEDES INVENTORY NO.	सामग्री सूची संख्या को अधिकारिता कराता है	4.0 General Terms & Conditions 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. 4.2 Installation and Commissioning: The supplier shall install & commission the equipment at PCRI. 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. <i>Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.</i> 4.3 Guarantee: The equipment alongwith PC, Printer, UPS etc. shall be guaranteed for satisfactory performance for a period of <u>12 months from the date of installation</u> or <u>18 months from the date of dispatch</u>, whichever is earlier. <i>Failing to comply to the Guarantee clause, the offer will be rejected straightaway.</i> 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.					
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		स्व-निर्माण एवं गोपनीय इस प्रलेख में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की संपत्ति है इसका प्रसार एवं अप्रसार एवं से किसी भी प्रकार प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए ।					
दिनांक SIGN & DATE		REV.NO.	00	निर्माणकर्ता PREPARED BY	S.K. Mishra		
				जांचकर्ता CHECKED BY	Dr. S. Bhatnagar		
				स्वीकृति APPROVED BY	Ambrish Goel		
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