

Dated:17/07/2015

CORRIGENDUM-1

Tender enquiry No. R/5599/2015/1689V1 dt: 06/07/2015 with tender opening date 03/08/2015 for the item "Furniture Module 11 Items as per Annexure-II for DPL"

As a result of pre bid meeting held on 13/07/2015 following changes have been made in the original tender document:-


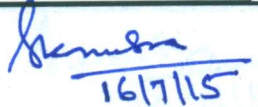
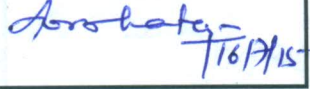
- (1) Technical specification **PR00445 Rev 02** has been revised as **PR00445 Rev 03** and **enclosed below for reference.**
- (2) Last date to get tender from BHEL has been extended from 02/08/2015 to **07/08/2015**
- (3) Tender opening date has been extended from 03/08/2015 to **08/08/2015**

Vendors are requested to quote according to the above changes.

FOR & ON BEHALF OF BHEL, HARIDWAR

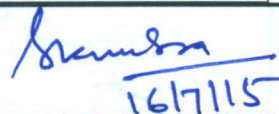
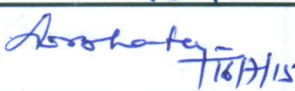
Engineer (PCRI-BOI)

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		PRODUCT PURCHASE SPECIFICATION			पृष्ठ Page	6 1	का of	1 6																																																																									
सामग्री सूची संख्या को अधिकृतित करना है SUPERSEDES INVENTORY NO.	DPL LABORATORY FURNITURE ANNEXURE-II																																																																																
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<p>स्वाधिकाये - गोपनीय</p> <p>इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है इसका प्रदर्श एवं अप्रदर्श रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में अनिवाचक हो न किया जाए ।</p> <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>																																																																																	
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सामग्री सूची संख्या INVENTORY NO.			निर्माणकर्ता WORKED BY	S.K. Mishra																																																																													
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			स्वीकृति APPROVED : Dr. N.G. Shrivastava																																																																														
REV.NO.	03			निर्माण PREPARED : S.K. Mishra	जारी ISSUED : Dr. S. Bhatnagar	दिनांक DATE : 16.07.2015																																																																											
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दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश		PR00445	
		PRODUCT PURCHASE SPECIFICATION		पृष्ठ Page	6 2
SUPERSEDES INVENTORY NO.	2.0 TECHNICAL SPECIFICATIONS : <p>The Storage Cabinets should be panel based with modular concepts. All panels should be removable to repair any service line behind the units or to shift the cabinets in future.</p> <p>The Cabinets should consists of the following Components :</p>				
सामग्री सूची संख्या को अपडेट किया जाता है	MATERIAL OF CONSTRUCTION :				
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	A) CARCASS	16 mm thick melamine resin coated laminated flat press board or powder coated (60-80 microns) CRCA (20 gauge) or better, sealed by PVC edge tapes.			
	B) SHUTTERS AND DRAWER FRONTS	The shutters & drawer fronts should have chemical resistant PVC THERMO FOIL face E1/E2 grade core material or of powder coated (60-80 microns) CRCA (20 gauge) or better & wooden shutters & drawer fronts. The urethane acrylic coating on top of thermo foil should be resistant to deformation & scratches on PVC.			
	C) WORK TOP	The worktop should be of black granite of thickness (17 mm ± 2 mm) with polished edges.			
	D) REAGENT RACK	Reagent Rack should be of modular concept with 2-tier storage facility			
	E) PORCELAIN SINK	Acid – alkali resistant Porcelain sink (laboratory grade) of size (18" x 12" x 8") with flexible hose and coupling			
	F) 3 WAY FAUCET	Sinks to be provided with 3 way (2 straight + Swan neck) water taps made of brass powder coated / stainless steel.			
	Hardware Fittings				
स्वत्वाधिकार, सुरक्षा एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है इसका प्रसार एवं अप्रसार रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।	a) Hinges	Good quality make full overlay self closing concealed clip on type. The hinges should be CED (cathode electrode deposition) coated black colour for enhanced chemical and corrosion resistance.			
	b) Locks	Reputed brand with 180° locking facility cam type for drawers only.			
	c) Handles	Mild steel / Aluminium powder coated (colour co-ordinated with cabinets)			
	d) Drawer Slides (Double extension telescopic type)	The slides should be heavy duty double extension telescopic type with zinc plated (Reputed Brand) type with clip on clamps on either side (cabinet & drawer) for better load bearing capacity and durability.			
दिनांक एवं हस्ताक्षर SIGN & DATE	REV.NO.	03 Dated 16.07.2015		निर्माणकर्ता WORKED BY	S.K. Mishra
सामग्री सूची संख्या INVENTORY NO.				जांचकर्ता CHECKED BY	Dr. S. Bhatnagar
					 16/7/15
					 16/7/15


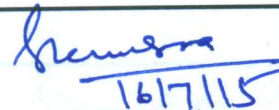
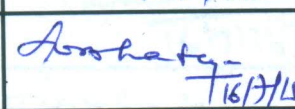
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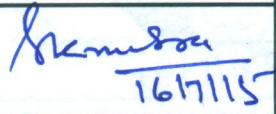
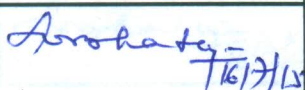
SUPERSEDES INVENTORY NO.	2.1 Fume Chamber						
	Fume hood Type : Auto Bypass Constant Volume Type						
सामग्री सूची संख्या को अधिष्ठापित करना है	Over all Dimension		1500-1600 L x 750-950 W x 2400-2500 H mm				
	Hood Dimension		Compatible with above				
	Base Cabinet Dimension		Compatible with above				
	Bed Size		Compatible with above				
	Material of Construction		16 mm thick melamine resin coated material with epoxy filled post form finish or powder coated (60-80 microns) CRCA (20 gauge) or better. PVC thermo foil face with E1/E2 grade core material. The urethane acrylic coating on top of thermo foil should be resistant to deformation & scratches or of powder coated (60-80 microns) CRCA (20 gauge) or better & wooden shutters & drawer fronts. Internal surface be lined with suitable acid/alkali resistant resin coating.				
	Door		Vertical sliding, concealed type door, balanced with counter weights, sash weights, and wire rope etc.				
	Baffle		A stable, non – adjustable baffle with a single slot on the back baffle to aid in distributing the flow of air into and through the hood. The baffle shall be spaced out from the back liner and shall be removable for cleaning.				
	Baffled By		3 mm thick FRP sheet				
	Casing		6 mm thick FRP Bisphenol 'A' fumerate Resin.				
	Coupling		Direct				
	Sash		The sash shall be of glass with vertical rising steel frame. The bottom of the sash frame shall have a full length metal handle. The sash shall be counterbalanced with weights to prevent titling and binding during operation. The glass panel shall be of 5 mm toughened glass.				
	Colour		IVORY/BLUE				
	Flooring		18 ± 1 mm thick black granite top with skirting to be provided.				
	Lighting		1No. 4 feet Tube light of 220 Volts to be provided.				
	हस्ताक्षर एवं दिनांक SIGN & DATE	Electrical Arrangements		The hood super structure to be fully wired. It should also have 4 Nos. Electrical sockets and switches (230V, 5/15A, 50Hz).			
Cable Entering Port		For easy access of cables from fume hood to electrical sockets.					
Sink & Water Tap		1 No. FRP Sink (12" x 10") with single way Water tap.					


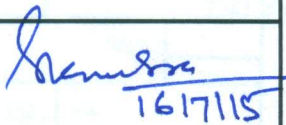
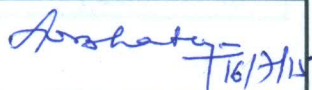
सामग्री सूची संख्या INVENTORY NO.	REV.NO.	03 Dated 16.07.2015	निर्माणकर्ता WORKED BY	S.K. Mishra	 16/7/15
			जांचकर्ता CHECKED BY	Dr. S. Bhatnagar	 16/7/15

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

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश			PR00445		
		PRODUCT PURCHASE SPECIFICATION			पृष्ठ Page	6 4	का of
सामग्री सूची संख्या INVENTORY NO.	Chemical Storage Base Cabinet – 01 No.						
सामग्री सूची संख्या को अधिकतम करता है	Bottom Arrangements		16 mm thick melamine resin coated material with epoxy filled post form finish or powder coated (60-80 microns) CRCA (20 gauge) or better. PVC thermo foil face with E1/E2 grade core material. The urethane acrylic coating on top of thermo foil should be resistant to deformation & scratches or of powder coated (60-80 microns) CRCA (20 gauge) or better & wooden shutters & drawer fronts.				
	Chemical Storage Base Cabinet		<ul style="list-style-type: none"> • Internal special chemical resistant material lining to the cabinet walls. • Complete powder coated attractive color combination rigid structure to support Fume hood. • One removable horizontal partition to store chemicals. • Double skin hinged doors with hinges having coating for chemical resistance and hassle free operation in the corrosive lab atmosphere. 				
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	Centrifugal Motor & Blower – 01 No.						
स्वत्वधिकार गोपनीय इस प्रलेख में दी गई सूचना भारत की इलेक्ट्रिकल्स की संपत्ति है इसका प्रसार एवं अग्रव्यापक रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।	Construction		The Centrifugal blower is made of such material which is essential for effective exhaust of harmful gases and vapors.				
	Capacity		3 phase 1 HP motor with minimum 1440 RPM.				
	Standard		The impeller will be of good quality construction. As per IS 325.				
Ducting							
दिनांक एवं हस्ताक्षर SIGN & DATE	Ducting		FRP rigid ducting of 200 mm diameter to be provided from the blower to the duct collar. The total ducting should include flanges, bends, brackets, exhaust stacks & necessary clamps.				
सामग्री सूची संख्या INVENTORY NO.	REV.NO.	03 Dated 16.07.2015			निर्माणकर्ता WORKED BY	S.K. Mishra	
					जांचकर्ता CHECKED BY	Dr. S. Bhatnagar	
					 16/7/15		
					 16/7/15		

दिनांक एवं तिथि SIGN & DATE		उत्पाद क्रय विनिर्देश			PR00445			
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SUPERSEDES INVENTORY NO.	2.2 Working Table				Page	5	of	6
सामग्री सूची संख्या को अधिकृत करता है	Under Bench Modular : It should consist of alternative modular Colour : Ivory / Blue				2.3 Wall Mounted Chemical Storage Units			
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	2.4 9-Cabinet Island Assembly with Elevated Shelves & End Sink, Peninsula Type				It should have front glass door. One no. of horizontal adjustable partitions to be provided with a locking arrangement. The unit shall be fixed on the wall through the Eye-let holes.			
	Amenities : a) 3 Nos. of Reagent Rack with 6 Nos. of 15/5 amps 3 pin electrical sockets cum switch b) 1 No. of Porcelain Sink (18"x12") with 3 way water tap.				2.5 Elevated Shelves			
	Colour : Ivory / Blue				2 Nos. of 15/5 amps 3 pin electrical sockets cum switch.			
	Colour : Ivory / Blue				2.6 Modular Under Bench Storage Units			
स्वत्वाधिकार संव गोपनीय इस प्रयोग में ही नई सुचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है इका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में अधिकारक हो न किया जाए ।	Colour : Ivory / Blue To be placed below laboratory slabs.				2.7 Wall Storage Cupboard			
दिनांक SIGN & DATE	It should be made of powder coated (60-80 microns) CRCA (20 gauge) or better. It should have front glass door. One no. of horizontal adjustable partitions to be provided with a locking arrangement. The unit shall be fixed on the wall through the Eye-let holes.				2.8 Anti Vibration Working Desk			
सामग्री सूची संख्या INVENTORY NO.	REV.NO.	03 Dated 16.07.2015	निर्माणकर्ता WORKED BY	S.K. Mishra				
			जांचकर्ता CHECKED BY	Dr. S. Bhatnagar				

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश		PR00445	
		PRODUCT PURCHASE SPECIFICATION		पृष्ठ	6
समूची सूची संख्या को अधिकृत करता है		2.9 Working Desk		Page	6 of 6
समूची सूची संख्या को अधिकृत करता है	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.	Under Bench Modular Colour		It should consist of alternative modular Ivory / Blue	
		2.10 4-Cabinet Island Assemblies with Elevated Shelves & Center Sink, Peninsula Type			
स्वातंत्र्य और गोपनीय इस प्रलेख में की गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रसार एवं अप्रकाश रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में अधिकारक हो न किया जाए।		Amenities		a) 2 Nos. of Reagent Rack with 4 Nos. of 15/5 amps 3 pin electrical sockets cum switch b) 1 No. of Porcelain Sink (18"x12") with 3 way water tap.	
		Colour		Ivory / Blue	
दिनांक एवं हस्ताक्षर SIGN & DATE		2.11 Steel Racks			
		Material Of Construction		CRCA make slotted angle of 14 gauge or better with powder coated (60-80 microns) CRCA (20 gauge) or better make shelves.	
		The offer should be accompanied with detailed printed catalogue.			
		3.0 <u>General Terms & Conditions</u>			
		3.1 Installation and Commissioning :The supplier shall install and fix all the items within the laboratories to ensure compliance with complete specifications quoted by them to the satisfaction of BHEL/end user.			
		These equipments would be installed in laboratory rooms (3 Nos.) of 7.478 m x 9.35 m, 18 m x 11 m and 18 m x 11 m, respectively.			
		3.2 Guarantee: The items shall be guaranteed for satisfactory performance for a period of 12 months from the date of installation.			
		3.3 Packing & Dispatch : The equipment / accessories / items shall be packed in a suitable water proof/vibration proof packing boxes capable of bearing air / rail and road transit hazards. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number.			
समूची सूची संख्या INVENTORY NO.	REV.NO.	03 Dated 16.07.2015	निर्माणकर्ता WORKED BY	S.K. Mishra	 16/7/15
			जांचकर्ता CHECKED BY	Dr. S. Bhatnagar	 16/7/15