

Dated:10/07/2015

CORRIGENDUM-1

Tender enquiry No. R/5599/2015/1109V1 dt: 23/06/2015 with tender opening date 22/07/2015 for the item "Thermo Gravimetric Analyzer"


As a result of pre bid meeting held on 30/06/2015 following changes have been made in the original tender document:-




- (1) Technical specification **PR00361 Rev 01** has been revised as **PR00361 Rev 02** and **enclosed below for reference.**
- (2) Last date to get tender from BHEL has been extended from 21/07/2015 to **31/07/2015**
- (3) Tender opening date has been extended from 22/07/2015 to **01/08/2015**


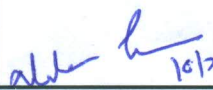
Vendors are requested to quote according to the above changes.

FOR & ON BEHALF OF BHEL, HARIDWAR

Engineer (PCRI-BOI)

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश		PR00361	
		PRODUCT PURCHASE SPECIFICATION		पृष्ठ Page	3 का 1 1 of 3
SUPERSEDES INVENTORY NO	<p align="center">THERMO GRAVIMETRIC ANALYSER</p> <p>1.0 GENERAL</p> <p>It is used to determine the moisture, volatile matter, ash, fixed carbon content of coal.</p> <p>2.0 TECHNICAL SPECIFICATIONS FOR TGA</p> <p>2.1 Thermo gravimetric Analyzer should be equipped with an electronic unit, a control console, furnace with balance; printer & a window based operating software with external PC compatible with the instrument.</p> <p>2.2 Capacity – Crucibles with lid with Minimum 19+1 samples at a time</p> <p>2.3 The system should allow measurement from ambient to 1000 deg C</p> <p>2.4 Carousel made of Ceramic/Metal Alloy capable of sustaining temperature up to 1000 deg C.</p> <p>2.5 Balance sensitivity 0.0001 gm; sensitivity adapted for high temperature.</p> <p>2.6 Automatic closing and opening of crucible lids during analysis at predefined temperature.</p> <p>2.7 Sample size: 0.5 gm to 5.0 gm</p> <p>2.8 Sample carousel for analyzing minimum 20 (19+1) samples.</p> <p>2.9 The analyser should have dedicated over temperature protection thermocouple</p> <p>2.10 Ducting Facility: Should be standard supply.</p> <p>2.11 Gases required for operation of TGA</p> <p>(1) Filled Oxygen Cylinder (capacity 18 liter of more) with double stage pressure regulator.</p> <p>(2) Filled Nitrogen Cylinder (capacity 18 liter of more) with double stage pressure regulator.</p> <p>(3) Air Compressor having minimum operating pressure 6-8 Kg/cm²</p> <p>Gas cylinder ownership certificates shall be in the name of customer. The name and designation of the same will be intimated at the time of supply.</p> <p>2.12 Gas Flow rate: 1 to 10 liter/min adjustable</p>				
समग्री सूची संख्या INVENTORY NO	सहमत विभाग AGREED DEPTT.	नाम NAME	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	निर्माणकर्ता WORKED BY	Dr. N Srivastava
				जांचकर्ता CHECKED BY	Dr. N Srivastava
				पर्यवेक्षककर्ता SUPERVISED BY	Dr. N Srivastava
				स्वीकृति APPROVED : Ambrish Goel	
	REV.NO.	02		निर्माण PREPARED : Dr. N Srivastava	जारी ISSUED : Ambrish Goel
	Dt.	10.07.2015			दिनांक DATE : 10.07.2015

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद क्रय विनिर्देश PRODUCT PURCHASE SPECIFICATION		PR00361			
				पृष्ठ	3	का	2
				Page	2	of	3
SUPERSEDES INVENTORY NO. सामग्री सूची संख्या को अधिकृतित करता है	2.13 Standards: Two sets of certified reference materials (Low/Medium/High Concentration) should be supplied for calibration of the instrument which is traceable to NABL/Govt. laboratories. 2.14 The analyser should be equipped with automatic/manual evacuation and refilling system. 2.15 The equipment shall be supplied with required accessories/consumables sufficient for 1000 test samples including minimum 20 nos. of crucibles with lid and 02 nos. of scoops. 2.16 Data system and Software : (a) The data system should be based on latest version of PC (branded PC of reputed make like Compaq, HP and Dell) (b) The software should be MS Windows based and should be capable of analysis and report, Software should be capable of doing all operation required for running the instruments (complete control through software) and data processing. (c) The software should have features having inbuilt methods or options for creating and storing various methods. (d) The software should have features for regression analysis and reporting of data in various format and should be easily computable with Ms Office for report generation. (e) Original Software to be provided in CD. 2.17 External PC of reputed make like Compaq, HP and Dell and Printer with following configuration shall be supplied: (a) Intel i5 processor, 6USB slots, 4GB RAM, Hard Disc Capacity:HDD 500 GB, DVD Writer, USB Keyboard, Optical Mouse, Monitor 19" LED, Windows 8 or better in original software. (b) Monochrome HP Laser printer with speed 25 PPM or better. 2.18 Operating supplies. 230VAC, 50/60Hz single phase.						
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							
स्वत्वा एवं गोपनीय इस प्रत्येक में ही मई मूल्या भारत की इलेक्ट्रिकल्स की संपत्ति है इसका प्रत्येक एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में अनिवार्यक हो न किया जाए।							
दिनांक SIGN & DATE							
सामग्री सूची संख्या INVENTORY NO.	REV.NO.	02 Dated 10.07.2015	निर्माणाकर्ता PREPARED BY	Dr. N Srivastava			
			जांचकर्ता CHECKED BY	Dr. N Srivastava			

हस्ताक्षर एवं दिनांक SIGN & DATE		उत्पाद क्रय विनिर्देश		PR00361	
		PRODUCT PURCHASE SPECIFICATION		पृष्ठ Page	3 3 का of 3
सामग्री सूची संख्या INVENTORY NO.	3.0 GENERAL TERMS & CONDITIONS :				
सामग्री सूची संख्या को अधिकृतित करता है	3.1 Document: One hard copy of O&M manual in English language giving complete technical information for operation and maintenance of the equipment shall be supplied with each equipment.				
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.	3.2 Installation and Commissioning: The supplier shall install and commission the equipments at sites. I&C of 01 No. of equipment is required at 800 MW Yeramarus Thermal Power Project, Raichur (Karnataka) site and other 01 No. at 500 MW Annpara-D Thermal Power Project (U.P) site. Supplier should demonstrate the performance of the equipment and all its accessories to ensure compliance with complete specification & parameters quoted by them to the satisfaction of BHEL/end user. Cost of installation & Commissioning, if any, should be indicated separately.				
स्वतंत्रता गोपनीय इस प्रक्रिया में दी गई सूचना भारत भारती इल/ट्रैडिंग्स की संपत्ति है इसका प्रसार एवं उपयोग अन्यथा एवं से किसी भी तरह प्रयोग, जो कि कंपनी के हित में अनिवाज्य हो न किया जाए।	Failing to comply the installation and commissioning clause the offer will be rejected straightway.				
हस्ताक्षर एवं दिनांक SIGN & DATE	3.3 Warranty: The equipment shall be warranted for satisfactory performance for a period of 12 months from the date of commissioning or 18 months from the date of dispatch, whichever is earlier.				
हस्ताक्षर एवं दिनांक SIGN & DATE	Failing to comply to the Guarantee clause the offer will be rejected straightway				
सामग्री सूची संख्या INVENTORY NO.	3.4 Packing & Dispatch : The equipment / accessories shall be packed in a suitable water proof / vibration proof packing boxes capable of bearing air and road transit hazards.				
सामग्री सूची संख्या INVENTORY NO.	3.5 " PCRI HWR " should be written in bold letters on all four sides of the box. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number.				
REV.NO.	02 Dated 10.07.2015	निर्माणकर्ता PREPARED BY	Dr. N Srivastava		
सामग्री सूची संख्या INVENTORY NO.	सामग्री सूची संख्या INVENTORY NO.	जांचकर्ता CHECKED BY	Dr. N Srivastava	