

TD-106-1 Rev No. 5 Form No.		PRODUCT STANDARD PULVERISERS HYDERABAD		Product STD NO.	BA 53026	
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COPYRIGHT AND CONFIDENTIAL The information on this document 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.		<u>DIRTY PITOT TUBE</u>				
		1.	DESCRIPTION	Dirty Pitot Tube. Suitable for working with Fuel Pipe diameter of 300 mm – 790 mm (12”-31”).		
		2.	APPLICATION	This is being used to measure the differential pressure and temperature at various location of pulverised fuel mixture (coal air mixture) in the coal pipe.		
		3.	MEDIA USED	Pulveriser fuel mixture (coal + air) size 50 to 100 microns, temperature 50 °C – 90 °C and pressure 300 mmwc – 500 mmwc.		
		4.	PITOT TUBE CONSTANT	One		
		5.	MATERIAL	Stainless steel.		
		6.	ACCESSORIES	The accessories as per variant table shall be supplied along with Dirty air pitot tube for conducting dirty air test.		
		7.	GUARANTEE	Dirty Pitot tube shall be guaranteed for 18 months time for trouble free operation or 24 months from the date of supply, whichever is earlier.		
		8.	PACKING	Pitot tube shall be packed properly to avoid any damage during transit and storage.		
		9.	ENCLOSURES	5 Copies of dimensional drawings and General arrangement drawing along with 10 copies of O&M Instructions manual and installation manuals. Necessary technical details/ Calibration curves shall be furnished.		
10.	TECHNICAL OFFER	Supplier to submit detailed product brochure with General arrangement (GA) drawing along with their technical offer. Vendor to specify the calibration requirement of the dirty pitot tube.				
Revisions: Refer to record of revisions:		Prepared: NDS	Approved: G.Kistaiah	Date: 22.9.98		

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11. The instrument probe shall feature a bushing/bearing providing the following Functionality:

- Keep the probe correctly aligned while traversing the coal pipe
- Provide a sealing against gas and fuel escaping from the coal pipe
- Be compatible with the dustless connector used for the "MULTI POINT ROTARY PROBE" Product STD NO. BA 53040

12. In case the instrument probe uses upstream facing measurement openings, it shall have the facilities for cleaning such openings without removal from the coal pipe.

13. Variant Table:

Var No.	Description	Material Code
01	<u>DIRTY PITOT TUBE:</u> Dirty pitot tube without fast/snap lock arrangement. It should be capable of working in conjunction with Rota probe sampling system "MULTIPOINT ROTARY PROBE" Product STD NO. BA53040. It should be supplied complete with the following accessories: Digital Thermometer, Digital Manometer, Thermocouples with end connection suitable to Digital thermometer, Connecting hoses for Digital Manometer & pitot tube suitable to the system making it complete shall be in vendors' scope.	BA9753026013
02	<u>DIRTY PITOT TUBE (SL):</u> Dirty pitot tube should have a fast lock/snap lock arrangement & shall be capable of working in conjunction with motorized Rota probe sampling system "MULTIPOINT ROTARY PROBE" Product STD NO. BA53040. It should be supplied complete with a combined pressure & temperature measuring hand held digital instrument, showing also fuel pipe air velocity etc. & with facility of data transfer through Bluetooth from the instrument to control unit. Items, like, thermocouple and Connecting hoses etc. suitable to the system making it complete shall be in vendors' scope.	BA9753026021

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Var No.	Description	Material Code
03	<u>DIRTY PITOT TUBE (SL):</u> Dirty pitot tube should have a fast lock/snap lock arrangement & shall be capable of working in conjunction with motorized Rota probe sampling system "MULTIPOINT ROTARY PROBE" Product STD NO. BA53040. Matching dustless connector is also included in the scope of supply. It should be supplied complete with a combined pressure & temperature measuring hand held digital instrument, showing also fuel pipe air velocity etc. & with facility of data transfer through Bluetooth from the instrument to control unit. Items, like, thermocouple and Connecting hose etc. suitable to the system making it complete shall be in vendors' scope.	BA9753026030

RECORD OF REVISIONS

REV. NO	DATE	REVISION DETAILS	REVISED	APPROVED
01	24.02.04	6.1, 6.2, 6.3, 6.4, 6.5 added	GSNMR	G.K.
02	12.06.13	Clauses 11, 12 & 13 added. Clauses 1, 6 & 7 revised. Var 02 added.	RR	MVRM
03	20.02.19	Variant 03 added	Aman	Satish Ghatge
04	13.04.19	Variant 03 material code corrected.	Aman	Satish Ghatge

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