

**PLANT PURCHASE SPECIFICATION**  
(CFPP - HARDWAR)

**PORTABLE PNEUMATIC GRINDERS**

**1. GENERAL**

This specification governs the requirements of **Portable Pneumatic Hand Grinders** for use in foundries.

**2. APPLICATION**

Resinoid Grinding wheels of different sizes shall be mounted on these grinders for heavy duty grinding work on steel castings and smoothing of weldments.

**3. COMPLIANCE WITH NATIONAL STANDARD**

There is no national standard available.

**4. CHARACTERISTICS**

The different types of grinders alongwith their suitability and equivalent models of different companies are as described below:

Sl. No.	Description / Material Code	Equivalent models of Different Companies
4.1	Pneumatic steel clad grinders, alongwith suitable attachments for mounting of grinding wheels of $\phi 150\text{mm} \times 25\text{mm} \times \phi 16\text{mm}$ bore, and DCD wheels $\phi 180\text{mm} \times 7\text{mm} \times \phi 22.23\text{mm}$ bore Code: FF6814088029	Chicago Pneumatic: CP-3220-S-5800 ELGI: EGS-6-60N
4.2	Pneumatic Die grinder suitable for mounting grinding wheel of $\phi 40\text{mm} \times 20\text{mm} \times 10$ Bore and Nut Inserted wheel of $\phi 45\text{mm} \times \text{HT } 60\text{mm} \times \text{M10}$ nut. Collet attachment for this is to be supplied. Code: FF6415212907	Chicago Pneumatic: CP-3050N-21000 ELGI: EGS-21 Ingersoll Rand: 301GR(S)-18000 or DG-21-CA APT: AG-50
4.3	Pneumatic Die grinder alongwith suitable collet attachments for mounted point A11 shape wheel Code: FF6415212915	Chicago Pneumatic: CP-9107-N ELGI: EGS-35N Ingersoll Rand: 325SG4A or 335SC4
4.4	Pneumatic angle grinder alongwith necessary attachments, suitable for wheels of size: DCD wheel – OD 230mm x Thickness 3mm x Bore 22.23mm, Straight cup grinding wheel OD125mm x Thickness 63mm x Bore 16mm Code: FF6415266012	Chicago Pneumatic: CP-319-A-6000 ELGI: EGA 6-60 Miranda: KBE 270-7000 SC

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DRIFTED BY	SHYAMSUNDRAR	अनुवादक	TRANSLATED BY	
STEEL ID	ARUN KAPOOR	डिजाइनकर्ता	WORKED BY	L. AGRAWAL
CHAIRMAN	VE. AGARWAL	जांचकर्ता	CHECKED BY	T. DAVE
APPROVED BY		APPROVED BY		T. DAVE
DATE & SIGNATURE		DATE & SIGNATURE		
APPROVED <b>संस्थान मानक समिति</b> <b>PLANT STANDARDS COMMITTEE</b>				
PREPARED BY	FOUNDRY TECH	ISSUED BY	FOUNDRY TECHNOLOGY	DATE
				5.5.14



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	<b>संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी. - हरिद्वार)</b> <b>PLANT PURCHASE SPECIFICATION</b> <b>(CFPP - HARDWAR)</b>	<b>FF 06043 Rev 04</b> <b>पृष्ठ का</b> <b>Page 3 of 4</b>
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- 6. MISCELLANEOUS**
- 6.1 The grinder shall work efficiently in the air pressure range of 4 Kg/cm<sup>2</sup> to 7 Kg/cm<sup>2</sup>. All the grinders should have metallic body, preferably steel and suitable for manual working.
  - 6.2 The grinders should be capable of working effectively under dust and fume laden environment of foundry.
  - 6.3 **The supply shall include the following:**
    - a) Detailed information about spares.
    - b) Safety and maintenance manual.
    - c) Test and guarantee certificates.

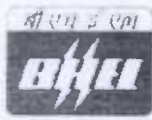
- 7. INSPECTION AND REPLACEMENT**
- 7.1 BHEL reserves the right to inspect material at site before despatch. The supplier shall intimate in advance about readiness of material enclosing a copy of test certificate of the material offered for inspection. However inspection at BHEL shall be final. The supplier shall offer BHEL representative all reasonable test facilities without charge to satisfy the latter that the material being furnished is in accordance with this specification. The supplier shall prepare and provide necessary test specimens for testing to be carried out at his premises. If facilities are not available at his works, the supplier shall make necessary arrangements for carrying out the prescribed tests elsewhere.
  - 7.2 If the tools received at CFPP is not found in accordance with the requirements or it fails during guarantee period, it shall be rejected and the supplier will have to replace it free of cost at the earliest.

- 8. TEST CERTIFICATES**
- 8.1 Unless otherwise specified, one original and three copies of test certificate from the original manufacturer shall be supplied with each consignment bearing the following information. In order to facilitate quick clearance of material, the supplier shall ensure to send a copy of test certificate along with despatch document.
    - a. BHEL PO No. with Date
    - b. Specification No.
    - c. Supplier reference / trade mark
    - d. Identification No. / Batch No.
    - e. Characteristics as per Clause 4
    - f. Any other specific information which the supplier would like to convey.
  - 8.2 Suppliers other than the original manufacturer shall ensure providing original manufacturer's test certificates with linkage to supplier's invoice stating the batch No., lot No., etc of the supply.

- 9. MARKING & PACKING**
- The pneumatic tools should be suitably packed to avoid damage during transit and storage. The packing should be that of the original manufacturer. Each tool should have model No, Identification No. (if any) marked on the tool.

निर्मणकर्ता WORKED BY	I. AGRAWAL	
जांचकर्ता CHECKED BY	T DAVE	

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संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी. - हरिद्वार)

FF 06043 Rev 04

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RECORD OF CHANGES

Rev Code	No. of changes	Sheet No.	Nature of Change	Sign	Date
01	02	2,3	Clause No. 7 introduced. Clause No. 9 modified to incorporate original manufacturer's certificate condition.		31.8.09
02	01	1,2	Clause 4 modified to introduce equivalent models of different makes.		18.8.10
03	01	1	Clause 4.1 - Model revised in line with earlier procurements and use in shop.		29.9.10
04		1,2,3	Clause 5 - Detailed Performance test added, Approved models of different vendors updated		05.05.14

DISTRIBUTION OF PRINTS

RMI	✓
STANDARD SECTION	✓
MPIC	✓

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SH. S. A. D. H. I.

निर्माणकर्ता