

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)
Tiruchirappalli – 620014, TAMIL NADU, INDIA
MATERIALS MANAGEMENT

TITLE

Phone: +91 431 2577617/2577472

Fax : +91 431 252 0719

Supply of pourable insulation, Castable refractory Grade A&C for BHEL projects.

– Invitation for Expression of Interest

Email: stv@bheltry.co.in;

cmouli@bheltry.co.in rmkrish@bheltry.co.in

Reference Number: Enquiry Date: Due date for submission of quotation: 05.05.10

You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order

BHEL/Trichy is looking for empanelment of new vendors for supply of "POURABLE INSULATION & CASTABLE REFRACTORY GERADE A& C AS PER SPECIFICATION"

BHEL commercial terms & conditions with Price Bid formats and all annexure can be downloaded from BHEL web site http://www.bhel.com or from the Government tender website http://tenders.gov.in (public sector units) Bharath Heavy Electricals Limited) under enquiry reference "33pin/03"

Tenders should reach us before 14:00 hours on the due date Technical bid will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.

Yours faithfully.

For Bharath Heavy Electricals Limited

Sr.Mnager/Purchase/SD



PURCHASE SPECIFICATION FOR CASTABLE REFRACTORY TYPE-A

01. Permanent linear change at 1550°C : ±0.60 % Max

02. Crushing Strength in Kg/Cm²

at 110 °C and cooled to ambient temp. : 300 Min

After heated at each of the following temp. for 3 hours and cooled to ambient temp.

at 600°C : 200 Min

at 1200°C : 210 Min

01\ at 1600°C : 275 Min

03. Service Temperature : 1750 °C

04. Pyrometric Cone Equivelent:

Seger cone : at 1825°C 37 Min

or

Orton Cone : at 1820°C 37 Min

05. Bulk Density after cast and dried at 110°C

and cooled to ambient temp.in Kg/m³ : 2900 Max

06. Grog Size in mm : 5 Max

07. Chemical Composition:

 Fe_2O_3 (Ferric Oxide) : 5 % Max

08. Inspection and testing requirements shall be as per IS:10570(Latest)

PACKING:

The Material shall be packed and sealed in high density polythene bags. The thickness of Polythene bags shall be at least 0.2 mm. Then the sealed bags shall be put inside Bituminus lined polythene bonded hessian bags, and sealed by machine stiching.



Specification converted as soft copy.

INSULATION	PREPARED	A.R.JOTHI GURUNATHAN.		DRAWING NO :	REV
	CHECKED	C.GUNASEKARAN		4-33-210-00792	02
	APPROVED	C.S.ATHITHYAN			



PURCHASE SPECIFICATION FOR CASTABLE REFRACTORY TYPE-C

01. Permanent linear change at 1350°C (%) : ±0.25 Max

02. Crushing Strength in Kg/Cm²

at 110 °C and cooled to ambient temp. : 250 Min

After heated at each of the following temp. for 3 hours and cooled to ambient temp.

at 600°C : 150 Min

at 900°C : 120 Min

at 1350°C : 225 Min

03. Service Temperature : 1350 °C

04. Pyrometric Cone Equivelent:

Seger cone : at 1580°C 26 Min

or

Orton Cone : at 1590°C 23 Min

05. Bulk Density after cast and dried at 110°C

and cooled to ambient temp.in Kg/m³ : 2100 Max

06. Grog Size in mm : 5 Max

07. Chemical Composition:

 Fe_2O_3 (Ferric Oxide) : 5 % Max

08. Inspection and testing requirements shall be as per IS:10570(Latest)

PACKING:

The Material shall be packed and sealed in high density polythene bags. The thickness of Polythene bags shall be at least 0.2 mm. Then the sealed bags shall be put inside Bituminus lined polythene bonded hessian bags, and sealed by machine stiching.



- Specification converted as soft copy.

INSULATION	PREPARED	A.R.JOTHI GURUNATHAN.		DRAWING NO :	REV
	CHECKED	C.GUNASEKARAN		4-33-210-00793	01
	APPROVED	C.S.ATHITHYAN			



PURCHASE SPECIFICATION FOR POURABLE INSULATION

01. Service temperature 650°C

02. Permanent linear change at 650°C : ±2.0 %

Compressive Strength in Kg/Cm² 03.

110°C : 22 Minimum

at 500°C: 14 Minimum

Bulk Density at 110°C (Kg/m³) 04.

660 Maximum :

Bulk Density at 500°C (Kg/m³)

640 Maximum

05. Thermal Conductivity K value:

At Mean temp.

Kcal / m hr °C : 0.16 (Maximum) 250 °C in

500 °C in Kcal / m hr °C : 0.20 (Maximum)

06. Chemical Composition:

Fe₂O₃ (ferric oxide)

5 % Maximum

- 07. Thermal coductivity Test shall be done as per IS: 9490 latest or ASTM 201&202 latest.
- 08. Inspection and other Testing requirements shall be as per approved Quality plan.

PACKING:

The Material shall be packed and sealed in high density polythene bags. The thickness of polythene bags shall be at least 0.2 mm.

Then the sealed bags shall be put inside Bituminus lined polythene bonded Hessian bags and sealed by machine stiching.



Specification corrected and converted as soft copy.



Specification corrected in sl.no 07 on 06.01.05.

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INSULATION	PREPARED	A.R.JOTHI GURUNATHAN.		DRAWING NO :	REV		
	CHECKED	C.GUNASEKARAN		4-33-210-00794	02		
	APPROVED	C.S.ATHITHYAN					