NTPC LTD CC-OS EOC NOIDA

Sub: Qualifying Requirement for Vendor Enlistment for supply of Alumina Castable Refractory

A)	MEG DETAILS													
	1.0	MEG NO.	04MEC-02											
	2.0	MEG DESCRIPTION	Alumina Castable Refractory											
	3.0	RESPONSIBILITY CENTRE	CC											
B)														
		ant should be a manufacturer o	S											
			tory to any Thermal Power Plant.											
	• •	oplicant should have in-house testing facilities for testing refractory as mentioned in the technical												
	specifications	ecifications												
C)	Other Docum	nents to be submitted: In additi	on to the documents required in support of meeting technical											
	requirements as stated above, following documents are required to be submitted by the Applicants													
	applying for enlistment:-													
		e POs of the highest executed values of similar work during previous five years from the date of												
		1 3	ertificate from the concerned buyer/s in support of											
		ecution of supply against the PC												
		· · · · · · · · · · · · · · · · · · ·	oss statement for the previous three completed financial years											
		• •	se the audited documents are not ready / available, then											
			rtered accountant may be submitted.											
	3. Latest annual report OR NSIC / SSI / MSME registration certificate / BIS license / ISO certificate /													
1	Certificate of registration from the concerned excise department / any other statutory document as a proof													
	of being man	ufacturer of the required mater	rial.											
D)	of being man 4. Any other	ufacturer of the required mater documents in addition to the ab	rial. Dove which the applicant wants to submit.											
D)	of being man 4. Any other NOTE-1 Sir	ufacturer of the required mater documents in addition to the ab	rial.											
D)	of being man 4. Any other NOTE-1 Sir Sto	ufacturer of the required mater documents in addition to the al milar works means: Supply of Al eel Plants	rial. bove which the applicant wants to submit. lumina based Castable Refractory to Thermal Power Plants/											
D)	of being man 4. Any other NOTE-1 Sir Sto	ufacturer of the required mater documents in addition to the al milar works means: Supply of Al eel Plants e executed value means Basic v	rial. Dove which the applicant wants to submit.											
D)	of being man 4. Any other NOTE-1 Sir Ste NOTE-2 Th re	ufacturer of the required mater documents in addition to the ab milar works means: Supply of Al eel Plants e executed value means Basic v ference PO(also applicable to pa	rial. bove which the applicant wants to submit. lumina based Castable Refractory to Thermal Power Plants/ value of quantity of similar works executed/supplied against the											

NTPC LTD CC-OS EOC NOIDA

Sub: Technical Specifications for Vendor Enlistment for supply of Alumina Castable Refractory

A)	MEG DETAILS													
	1.0	MEG NO.	04MEC-02											
	2.0	MEG DESCRIPTION	Alumina Castable Refractory											
	3.0	RESPONSIBILITY CENTRE	CC											
B)	Technical Specifications:													
	As per attached Annexure													

Technical Specification for Bottom Ash Hopper Refractory

TYPE:

45% ALUMINA CASTABLE

NATURE OF BOND:

HYDRAULIC

INSTALLATION:

VIBRATION CASTING

GENERAL PROPERTIES

RAW MATERIAL BASE:

CALCINED CLAY

MAX. SERVICE TEMPERATURE:

1350°C

MAXIMUM GRAIN SIZE:

5 mm

WATER REQUIRED FOR CASTING:

10.5 - 11.5%

CHEMICAL ANALYSIS, %

	VALUE	TEST PROCEDURE
Al2O3	45 % Minimum	IS 12107 Part 3
CaO	8.5 % Maximum	IS 12107 Part 8
Fe2O3	4 % Maximum	IS 12107 Part 6

PHYSICAL PROPERTIES

	VALUE	TEST PROCEDURE
Dry density, g/ cc After drying at 110°C/24 hrs	2.1 Minimum	IS 10570
CCS, kg/cm ² After drying at 110°C/24 hrs After heating at 1100°C/3 hrs After heating at 1350°C/3 hrs	400 Minimum 200 Minimum 300 Minimum	IS 10570 IS 10570 IS 10570
% Retained on maximum size	5 Maximum	IS 1528 PART 14

THERMAL PROPERTIES

:	VALUE	TEST PROCEDURE
Refractoriness, Orton/°C	15-16 / 1430 - 1491	IS 1528 Part 1
PLC, % After heating at 1100°C/3 hrs After heating at 1350°C/3 hrs	(-0.30) to (+0.30) (-0.30) to (+1.15)	IS 10570 IS 10570

QA Requirements: Refractory shall be tested as per attached QP No : OS-QP-AHP-03

Marking: Following details are to be legibly written on the bags. Suppliers Name, Customer Name/Project, Purchase order No./ date, Batch No, Material name, Net Weight in Kgs Shelf life in months, Caution Note: "Do not use hooks for lifting"

Defends Output

8/1/1/

OS-TS-AHP-03-RO

Packing: The material shall be packed and sealed in polythene bags and the thickness of polythene bags shall be atleast 0.2 mm. Then the sealed bags shall be put inside the polythene lined HDPE or HDPP woven netting bags and sealed by machine stitching.

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OS-TS-AHP-03-RO

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\vdash	DATE: 02/04/2015 PAGE: 1 OF 1	Format of	Record		6	Test	Report	Test	+50±	Report				Test	Report	lest Report	Test Report		E	¥	=e2O3) e on dou		
	PAG	Acceptance	Norms		œ	NTPC Tech	Spec	NTPC Tech	Arrest Tool	Spec				NTPC Tech	Spec	NTPC Tech Spec	NTPC Tech Spec			2 Spec	203, CaO, Fed only once		
	HP- 03 , REV 00	Reference	Document		7.	10 10107 Dart 3	IS 12107 Part 8, S 12107 Part 6	IS 10570 &	71 1070 Part 17	IS 105/0 & IS 1528 Part 4				IS 10570 &	IS 1528 Part 14	IS 10570 & IS 1528 Part 1 / ASTM C 24	IS 10 5 70		I	NTPC Tech Spec	al composition (Al		
SH HOPP	: OS-TS-A	mn	eck	N		-	0/501 &1	IS 10570		IS 10570				IS 10570		IS 10570	IS 10570				for chemica		
TTOM A	SLES TECH SPEC REF: OS-TS-AHP- 03	Ouantum	of Check	Z	.9	00000	0/ co1 st	IS 10570		IS 10570				IS 10570		IS 10570	IS 10570			100%	ed at site f	ll teating,	
QUALITY PLAN FOR PROCUREMENT OF BOTTOM ASH HOPPER REFRACTORY		Type of	Check		5.		Chemical Analysis	Measurement		Mechanical test				Measurement		Comparison	Measurement			Verification	the lot receive	ed)	
		Class	Class		4		Major	Major		Critical				Major	,	Critical	Major			Major	ole from	selected of receiv	
	45% ALUMINA CASTABLES		Characteristics		3.	CITION	(a) Chemical Composition- Al2O3, CaO. Fe2O3	(b) Dry density After drying at	110°C/curing for 24 hrs	(c) Cold Crushing Strength (CCS)	curing for 24 hrs	(ii) After heating at 1100°C/ holding for 3 hrs	(iii) After heating at 1350°C/holding for 3 hrs	(d) Sieve Analysis		(e) Pyrometric Cone Equivalent (PCE)	(f) Permanent Linear Change (PLC)	holding for 3 hrs	(11) Atter heating at 1330°C/ holding for 3 hrs	(g) Marking & Packing	Note 1: NTPC site shall randomly draw sample from the lot received at site for chemical composition (Al2O3, CaO, Fe2O3) check of the Castable Note 1: NTPC site shall randomly draw sampling basis (ie 2 more	Refractory, as per (a) above. If the randomly selected se samples shall be drawn at random from the lot received	
	TO THE CONTROL		Component & Operations	•	,	FINAL INSPECTION	Castable							,							Note 1: NTP	Refractory, a	
			zi z		-	=																	

LEGEND: * RECORDS, INDENTIFIED WITH "TICK" (1) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN DOCUMENTATION.
** M: MANUFACTURER / SUB-SUPPLIER C: MAIN SUPPLIER, N: NTPC P: PERFORM W: WITNESS AND V: VERIFICATION.
CHP: NTPC SHALL IDENTIFY IN COLUMN "N" AS "W

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