

1X125MW SENEGAL TPP

**TECHNICAL SPECIFICATION
FOR
CALCIUM SILICATE PREFORMED INSULATION

VOLUME – IIB**

SPECIFICATION NO: PE-TS-315-169-M036 (REV-00)



**BHARAT HEAVY ELECTRICALS LIMITED, POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA, INDIA**

	TITLE:	SPECIFICATION NO. PE-SS-999-100-Q001	
		VOLUME	
		SECTION	
		REV. NO.	DATE: 26/08/2011
		SHEET	1 OF 1

PREAMBLE

1.0 The tender document contains three (3) volumes. The bidder shall meet the requirements of all the three volumes.

1.1 Volume-I (CONDITIONS OF CONTRACT)

This consists of four parts as below:-

- Volume-IA : This part contains instructions to bidders for making bids to BHEL.
- Volume-IB : This part contains general commercial conditions of the tender & includes provision that vendor is responsible for the quality of item supplied by their sub-vendors.
- Volume-IC : This part contains special conditions of contract.
- Volume-ID : This part contains commercial conditions for erection & commissioning site work, as applicable.

1.2 Volume-II TECHNICAL SPECIFICATIONS

Technical requirements are stipulated in Volume-II which comprises of :-

- Volume-IIA : General Technical Conditions
- Volume-IIB : Technical Specification including Drawings, if any.

1.2.1 Volume-IIB

This volume is sub-divided into following sections:-

- Section-A : This section outlines the scope of enquiry.
- Section-B : This section provides "Project Information".
- Section-C : This section indicates technical requirements specific to the contract, not covered in Section-D.
- Section-D : This section comprises of technical specifications of equipments complete with data sheet A, B and C.

Data Sheet - A Specifies data and other requirements pertaining to the Equipment.


Data Sheet - B Specifies data to be filled by the bidder (Data Sheet-B is contained in Volume-III).

Data Sheet -C Indicates data/documents to be furnished after the award of contract as per agreed schedule by the vendor (as applicable).

1.2.2 Volume-III (TECHNICAL SCHEDULES)


This volume contains technical schedules and Data Sheets-B, which are to be duly filled by the bidder and the same shall be furnished with the technical bid.

2.0 The requirements mentioned in Section-C / Data Sheets-A of section-D shall prevail and govern in case of conflict between the same and the corresponding requirements mentioned in the descriptive portion in Section-D

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C	SPECIFIC TECHNICAL REQUIREMENTS
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	<ul style="list-style-type: none"> • DATA SHEET – A • QUALITY PLAN • DATA SHEET-C

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SECTION-A

SCOPE OF ENQUIRY

	SCOPE OF ENQUIRY CALCIUM SILICATE PREFORMED INSULATION 1X125MW SENEGAL TPP		SPECIFICATION NO. PE-TS-315-169-M036	
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SCOPE OF ENQUIRY

1 SCOPE

This specification covers the design, materials, manufacture and testing of Calcium Silicate preformed insulation at Vendor's or/ and sub-Vendor's works inclusive of packing requirements for **1X125MW SENEGAL TPP**.


2 GENERAL TECHNICAL INSTRUCTIONS

- 2.1 It is not the intent to specify herein all the details of design and manufacture. However the item being procured shall conform in all respects to high standards of design, engineering and workmanship, and shall be capable of performing the required duties in a manner acceptable to Engineer/ Owner, who will interpret the meaning of drawing and specifications, and shall be entitled to reject any component or material, which in his judgement is not in full accordance herewith.
- 2.2 BHEL's / customer's representative shall be given access to the shop in which the equipment are being manufactured or tested and all test records shall be made available to him.
- 2.3 The item covered under this specification shall not be despatched unless the same have been accepted and shipping release issued by BHEL.

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SECTION-B

PROJECT INFORMATION

	TITLE: PROJECT INFORMATION	SPECIFICATION NO. PE-TS-315-169-M 036	
		VOLUME : II B	
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PROJECT INFORMATION

The proposed 1 x 125 MW Sendou Coal Fired Power Plant Senegal Project would be set up by COMPAGNIE D'ELECTRICITE DU SENEGAL, Senegal. The site, in Sendou, which is about 30km from Dakar and 10km from Rufisque. Site is near a highway (2km approx from inside) and about 1 km from seashore.

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SECTION-C

SPECIFIC TECHNICAL REQUIREMENTS

	TITLE: SPECIFIC TECHNICAL REQUIREMENTS CALCIUM SILICATE PREFORMED INSULATION 1X125MW SENEGAL TPP	SPECIFICATION NO. PE-TS-315-169-M036	
		SECTION C	
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1 GENERAL

- 1.1 The Calcium silicate preformed insulation shall meet the technical requirements and conform to the standard technical specifications and Data sheet A of Section D. In addition, the requirements of this Section-C shall also be complied with. However, wherever the details given in the standard technical specification of of Section-D and Data sheet A are different, the requirements of Data sheet A shall prevail. Similarly in the event of contradictions between Section –C & Section –D/ Data sheet A, Section –C shall prevail.
- 1.2 The technical requirements for Calcium silicate preformed insulation shall, in general, be as per the attached standard Technical specification for Bonded mineral (rock) wool pipe sections, and Data sheets A of Vol. II B Section D.

2 SCOPE OF SUPPLY


The Calcium silicate preformed insulation to be supplied shall be as per Data sheet A of Section D.

3 EXCLUSIONS:

Equipment required for Erection & Commissioning at site are excluded from the bidder's scope

4 DOCUMENTS TO BE SUBMITTED ALONG WITH OFFER

- 4.1 Compliance sheet as enclosed in Volume III
- 4.2 Schedule of Deviations if any.
- 4.3 Schedules of Price & Unit Price.
- 4.4 Schedule of declaration.

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SECTION-D

STANDARD TECHNICAL SPECIFICATION

DATA SHEET – A
 QUALITY PLAN
 DATA SHEET – C

	TITLE: STANDARD TECHNICAL SPECIFICATION FOR CALCIUM SILICATE PREFORMED INSULATION	STD SPECIFICATION No: PE-SS-999-169-M036	
		VOLUME: II-B	
		SECTION "D"	
		REV. NO. 04	DATE: 23.07.2012
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1.00.0 GENERAL

This specification covers the design, materials, manufacture and testing of Calcium silicate preformed insulation (suitable for service temperature upto 650 °C.) at Vendor's or/ and sub-Vendor's works inclusive of packing requirements.

2.00.00 CODES & STANDARDS

- 2.01.01 The manufacture, physical & chemical properties, inspection and testing of Calcium silicate preformed insulation shall conform to the latest edition of the following standards.
- 2.01.02 IS:8154 Specification for preformed Calcium silicate insulation (for temperature upto 650°C).
- 2.01.03 IS:3346 Methods for determination of thermal conductivity of thermal insulation materials (two slab, guarded hot-plate method).
- 2.01.04 IS:9490 Method for determination of thermal conductivity of thermal insulation materials (water calorimeter method).
- 2.01.05 IS:5688 Methods of test for preformed block type and pipe-covering type thermal insulation.
- 2.01.06 IS:5724 Methods of test for thermal insulation cement.
- 2.01.07 IS:3144 Methods of test for mineral wool thermal insulation materials (for test for Chloride Content).
- 2.01.08 IS:7509 Thermal Insulating Cements-Specification.
- 2.01.09 In case of any conflict between the above standards and this specification, the latter shall prevail and in case of any further conflict in the matter, the interpretation of the specification by the BHEL Engineer shall be final and binding.

3.00.00 MANUFACTURE

Preformed Calcium silicate insulation shall be made from reacted hydrous Calcium silicate reinforced with suitable inorganic fibres, and shall be formed into Pipe sections (two semi-cylinders), Curved segments (radiused & bevelled lags), Bevelled Lags and Flat blocks.

4.00.00 DIMENSIONS AND DIMENSIONAL TOLERANCES

- 4.01.00 The dimensions of the various forms of Calcium silicate insulation shall be as follows

4.01.01 PIPE SECTIONS

Length : 450, 500, 600 or 900 mm

Diameter (internal) : To fit standard pipes of external dia upto 219.1 mm


Thickness : 25, 40, 50, 60 or 75 mm

4.01.02 CURVED SEGMENTS (RADIUSSED & BEVELLED LAGS)

Length : 450, 500, 600 or 900 MM

Diameter (internal) : To fit standard pipes of external dia above 219.1 mm and upto 610 mm.

Thickness : 25, 40, 50, 60 or 75 mm

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4.01.03 BEVELLED LAGS

Length : 450, 500, 600 or 900 mm

Width : 75 or 150 mm to fit standard pipes of external diameter above 610 mm.

Thickness : 25, 40, 50, 60 or 75 mm.

4.01.04 FLAT BLOCKS

Length : 450, 500, 600 or 900 mm

Width : 150, 300 or 600 mm

Thickness : 25, 40, 50, 60 or 75 mm

4.02.00 Flat blocks shall be free from warp. Mating faces shall be plane and edges shall be square to the surfaces and to one another.

4.03.00 Pipe sections and bevelled lags shall be concentric and free from warp. Mating faces shall be plane and ends shall correspond with a plane at right angles to the long axis.

4.04.00 Bevelled edges of curved segments (radiused & bevelled lags) shall correspond with the radii of the curved surface to be insulated.

4.05.00 The dimensional tolerance of preformed calcium silicate insulation shall be as follows. The method of measuring dimensions shall be as per IS:5688.

4.05.01 FLAT BLOCKS AND BEVELLED LAGS

Length : + 3 mm

Width : ± 3 mm

Thickness : +3 mm and -1.5 mm

4.05.02 PIPE SECTIONS AND CURVED SEGMENTS (RADIUSD & BEVELLED LAGS)

Length : +3 mm

Diameter (inside) : + 5 mm and -0 mm

Thickness : +3 mm and -1.5 mm

5.00.00 BULK DENSITY AND TOLERANCES ON DENSITY


5.01.00 The bulk density of the preformed calcium silicate insulation shall be in the range of 200 to 280 kg/m³. The tolerance on manufacturer's declared nominal / specified density shall be +10% and -5%. The method of determining the bulk density shall be as prescribed in IS:5688.

6.00.00 MATERIAL PROPERTIES**6.01.00 COMPRESSIVE STRENGTH**

The reduction in thickness under the following conditions shall not exceed 5% when tested as per the method given in IS:5688

a) Dry condition under a load of 415 kN/m²

b) Wet condition (after 18 hours immersion in water) under a load of 170 kN/m²

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6.02.00 THERMAL CONDUCTIVITY

The thermal conductivity (k-value) of the calcium silicate insulation shall not-exceed the values given below when determined in accordance with the method prescribed in IS:3346 or IS:9490, at a cold face temperature of not more than 80 °C (during testing)

Mean Temp (°C)	Thermal conductivity (mW/cm°C)
100	0.61
150	0.67
200	0.74
250	0.80
300	0.87

6.03.00 HEAT RESISTANCE

When tested in accordance with IS:5724 under conditions of soaking heat for 24 hrs at the temperature of use i.e. 650 °C, the material shall be deemed suitable when the following requirements are met

- a) Linear shrinkage : 2% Max.
- b) Compressive Strength : Max 5% reduction in thickness under a load of 345 KN/m²
- c) Loss in weight : 12 % Max.

6.04.00 FLEXURAL STRENGTH

The flexural strength of the material shall not be less than 250 kN/m² when tested as per the method given in IS:5688.

6.05.00 MOISTURE CONTENT

The moisture content of the material shall not exceed 6.0% by weight when tested in accordance with the method prescribed in Annex - A of IS:8154.

6.06.00 ALKALINITY

When tested in accordance with the method prescribed in Annex - B of IS:8154, the pH value recorded shall be between 7.0 and 10.0


6.07.00 CHLORIDE CONTENT

The material shall not contain leachable chloride in excess of 0.02% when tested as per IS:3144.

7.00.00 INSPECTION AND TESTING


7.00.01 Bonded mineral wool pipe sections to be supplied under this specification shall be of tested quality and workmanship. Inspection and testing of thermal insulation materials shall be as per this specification / quality plan enclosed. Manufacturer shall conduct all tests and stage inspections as per the approved quality plan to ensure that the materials conform to the requirements of this specification and of applicable standards. All shop tests shall be conducted in the presence of BHEL's / BHEL's Customers representative, on the samples identified by him / them.

7.02.00 Sampling of calcium silicate testing shall be as per Appendix-C of IS:8154,

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8.00.00 PACKING AND MARKING

- 8.01.00 Calcium silicate insulation shall be packed in Polythene all around and sealed to prevent moisture absorption during transit and storage, and further shall be packed in cardboard boxes & sealed and then stretch wrapped.
- 8.02.00 Insulation as well as the packages shall be serial numbered. Also, printed sheets indicating the nominal thickness, density and BHEL's serial no. (given in bill of materials / insulation schedule) shall be placed inside the Polythene cover for proper identification.
- 8.03.00 Following details shall be legibly written on the packages with the help of stencils. Also, these details shall be typed on a sheet of paper and kept in a sealed polythene cover, inside the package.
- Project Name
 - Purchase Order No.
 - Sl. No. of package
 - BHEL's Sl. no.
 - Nominal thickness
 - Pipe size for which it is suitable and Length
 - Density
 - Weight of the package.


	TITLE: CALCIUM SILICATE PREFORMED INSULATION DATA SHEET- A 1X125MW SENEGAL TPP	SPECIFICATION NO. PE-TS-315-169-M 036	
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S.No.	MATERIAL DESCRIPTION	SPECIFICATION	DENSITY	QUANTITY
A.	CALCIUM SILICATE PREFORMED PIPE INSULATION SI. No. OF PIPING # PIPE O.D IN MM # INSULATION THICKNESS IN MM (These to be marked properly with stencils on each package of pipe section) ---- SEE NOTE 2	PE-SS-999-169-M036	250 Kg/Cub.M	
A1	16 # 508# 40			120 Mtr
A2	27 # 457# 40			20 Mtr
A3	17,26# 406.4# 40			180Mtr
A4	145 # 355.6# 25			10 Mtr
A5	1,2 # 323.9 # 40			140 Mtr
A6	5,21,22 # 273 # 40			100 Mtr
A7	146,147 # 273 # 25			20Mtr
A8	144# 168.3 # 25			40 Mtr
A9	135 # 88.9 # 25			20 Mtr
A10	3,6,18,24,25,28,29,30 # 60.3 # 25			250 Mtr
A11	154 # 48.3 # 25			10 Mtr
A12	4,7,8,19,20,31,160 # 33.4 # 25			400 Mtr
B.	CALCIUM SILICATE POWDER			1500Kgs.
C.	SODIUM SILICATE OF COMMERCIAL GRADE(BINDER FOR CALCIUM SILICATE POWDER)			150 Lts.

NOTE:

1) ABOVE B.O.M IS FOR ONE UNIT . ORDE& SUPPLY WILL BE FOR ONE
UNIT.

Handwritten signature


		QUALITY PLAN		CUSTOMER: COMPAGNIE D'ELECTRICITE DU SENEGAL		PROJECT: 1X125MW SENEGAL TPP		SPEC NO : PE-SS-999-169-M036 Rev.3		
BIDDER / VENDOR: As per approved Vendor list		QP NO: PE-QP-315-169-M033		REV. 00 DT : 20.11.2013		SPEC. TITLE: THERMAL INSULATION		CONTRACTOR: BHEL, PEM, NOIDA		
SHEET 1 OF 1		SYSTEM		ITEM: CALCIUM SILICATE PREFORMED PIPE INSULATION		AGENCY W V		REMARKS		
S. NO.	COMPONENT/ OPERATION	CHARACTERISTICS CHECKED	CATE GORY	TYPE/METHOD OF CHECK	EXTENT OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		
1	CALCIUM SILICATE PREFORMED INSULATION	Bulk Density Dimensions Compressive Strength Thermal Conductivity Heat Resistance Flexural Strength Moisture Content Alkalinity Chloride Content Appearance	MA	Lab. Test -do- -do- -do- -do- -do- -do- -do- -do- Visual	Sampling as per IS:8154 -do- -do- -do- -do- -do- -do- -do- Random	IS:5688 and Tech. Spec. IS:8154 and Tech. Spec. IS:5688 and Tech. Spec. IS:3346 OR IS:9490 and Tech. Spec. IS:5724 and Tech. Spec. IS:5688 and Tech. Spec. IS:8154 and Tech. Spec. -do- IS:3144 and Tech. Spec. ---	Tech. Spec. -do- -do- -do- -do- -do- -do- -do- Shall be free from cracks Tech. Spec.	Test certificate -do- -do- -do- -do- -do- -do- -do- Inspection Report -do-	1 1 1 1 1 1 1 1 1 1 1	*Please refer note below.
20	PACKING AND MARKING	Packing type and identification marking	MA	-do-	-do-	Tech. Spec.	Tech. Spec.	-do-	1	


LEGEND

MAJOR CHARACTERISTIC
 1 CUSTOMER
 2 BHEL
 3 VENDOR OR SUBVENDOR

PERFORM
 WITNESS
 VERIFICATION

*** Note: The test of compressive strength is to be conducted on blocks only.**

BHEL		BIDDERS/VENDOR	
SHIV BAHADUR VERMA		NAME	
		SIGNATURE	
15.02.2014		DATE	
		BIDDER'S / VENDOR'S COMPANY SEAL	

	DATA SHEET C CALCIUM SILICATE PREFORMED INSULATION 1X125MW SENEGAL TPP	SPECIFICATION NO. PE-TS-315-169-M036	
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DATA SHEET - C

Before dispatch of the equipment the vendor shall furnish the following in original for BHEL review and acceptance.

- a) Material Test certificates.
- b) Shop test reports and certificates.
- c) Quality Plan duly signed & stamped with bidder's seal.

1X125MW SENEGAL TPP

VOLUME – III

TECHNICAL SCHEDULES


FOR

CALCIUM SILICATE PREFORMED INSULATION

SPECIFICATION NO:PE-TS-315-169-M036(REV-00)




**BHARAT HEAVY ELECTRICALS LIMITED, POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA, INDIA**

	TITLE: TECHNICAL SCHEDULES CALCIUM SILICATE PREFORMED INSULATION 1X125MW SENEGAL TPP	SPECIFICATION NO. PE-TS-315-169-M036	
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3	SCHEDULE OF DECLARATIONS
4	SCHEDULE OF PRICES (As per enclosed format only)

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INSTRUCTIONS REGARDING SCHEDULES AND DATA SHEETS TO BE FILLED BY BIDDER

1.0 Volume III comprises of following:-

1.1 Data Sheet : Data Sheet (s) 'B'
1.2 Schedules:


PART - A : Compliance sheet & Technical Schedules
PART - B : Price Schedules

The Schedules and Data Sheets enclosed/indexed shall be completely filled up by the bidder and furnished with the bid duly signed and stamped by the bidder. Purchaser reserves the right to ask the bidder to fill 'additional schedules' which are not listed in the contents.

2.0 Form No. PE-6020 is a Checklist' which is enclosed to facilitate the bidder to make sure that the necessary data / information is furnished by him in his bid. The remarks column of this schedule shall be filled up by the bidder as per the instructions given below:

- The bidder shall write 'Not Applicable' against those schedules/documents which are not listed in the contents.
- The bidder shall write 'Enclosed' for the listed schedules/documents which are filled and furnished by the bidder with the bid, otherwise 'Not Enclosed' shall be written.
- Duly filled Part - A schedules (Technical schedules) & compliance sheet as well as Data Sheet - B shall be furnished with the technical bid, while Part - B Schedules (Price Schedules) shall be submitted with price bid in separate covers.
- Unpriced copy of Part - B schedules shall also be furnished along with Part-A schedules in the technical bid.
- Other documents/information as required in the checklist shall also be furnished by the bidder.

3.0 The Data Sheet (s) - 'B' shall be filled-up completely and typed written and shall be duly signed with Rev. No. and date. One copy of the same shall be furnished with the bid. The items which deviate from the specification shall be marked with an asterisk (*) in the data sheets and details shall also be given in the 'Schedule of deviations from technical specification (Form No. PE-6036)

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A) Technical Details: Bidder to tick whichever is applicable.

1	Specific Technical requirements of Vol. II B Section-C	Accepted	Not Accepted
2	Standard Technical Specification of Vol. II B Section-D	Accepted	Not Accepted
3	DATA SHEET-A of Vol. II B Section-D	Accepted	Not Accepted
4	QUALITY PLAN	Accepted	Not Accepted
5	Documentation requirement as per Data sheet-C	Accepted	Not Accepted

B) Deviations to the technical specification are not acceptable. However, if there are any deviations due to unavoidable reasons then the same to be clearly specified in the schedule of deviation. In case of no deviations, schedule of deviations to be filled as NIL by bidder.

C) All reports, test certificates etc. to be submitted during contract shall be subject to BHEL/Customer review/ approval.



TITLE

*** SCHEDULE OF DEVIATIONS**

() From Technical Specifications (Volume –II B)

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We the undersigned hereby certify that the above mentioned are the only deviations.



TITLE

***SCHEDULE OF
DECLARATIONS**

SPECIFICATION NO

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* Bidder shall include this schedule both in technical and Price offers

DECLARATION

Icertify that all the technical data and information pertaining to this specification are correct and are true representation of the equipment/system covered by our format proposal number Dated and there is no deviation to the specification.

I hereby certify that I am duly authorized representative of the Bidder's company whose name appears above my signature.

Bidder's Company Name

Authorised representative's
Signature

Name

Bidder's Name
with

The bidder hereby agrees to fully comply
the requirements and intent of this
specification for the price indicated