

**FRAMEWORK AGREEMENT
FOR
THERMAL INSULATION-R MATTRESSES
(1X660MW PANKI)**

**TECHNICAL SPECIFICATION
FOR
BONDED MINERAL (ROCK) WOOL MATTRESSES)**

**SPECIFICATION NO. PE-TS-020-1169-M032
Rev. No.: 00**



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

	TECHNICAL SPECIFICATION BONDED MINERAL (ROCK) WOOL MATTRESSES FRAMEWORK AGREEMENT FOR 1X660MW PANKI TPP		SPECIFICATION NO. PE-TS-020-169-M032
			REV. NO.: 00 DATE: 12.10.2020
	SHEET 1 OF 1		

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		SECTION : I
		REV. NO. 00
		DATE: 12.10.2020
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1.00.00 GENERAL

This specification covers the requirements of manufacture, physical & chemical properties, inspection & testing and packing for supply of bonded mineral (rock) wool mattresses having metallic hexagonal wire netting as facing on one or both side, suitable for service temperatures up to 750 deg C.

2.00.00 CODES AND STANDARDS

2.01.00 INDIAN STANDARD

- 2.01.01 The manufacture, physical & chemical properties, inspection and testing of the bonded mineral rock wool mattresses shall conform to the latest editions of the following appropriate standards.
- 2.01.02 IS: 8183 Specification for bonded mineral wool.
- 2.01.03 IS: 3144 Methods of test for mineral wool thermal insulation materials.
- 2.01.04 IS: 3346 Methods for the determination of thermal conductivity of thermal insulation materials (two slab, guarded hot plate method).
- 2.02.00 In case of any conflict between the above standards and this specification, the latter shall be final.

3.00.00 MANUFACTURE

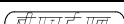
- 3.01.00 The mattresses shall be made from rock processed from a molten state into fibrous form with minimum organic thermosetting binder, and shall be machine felted, baked and metallic stitched / faced with metallic hexagonal wire netting on one or both sides (as specified in the BOM).
- 3.02.00 The metallic hexagonal wire netting shall be of Galvanized steel (made from wire conforming to IS: 280 medium coated to IS: 4826) / Stainless steel (made from wire to IS: 6528) having wire size and aperture conforming to IS: 3150, as specified in the BOM.
- 3.03.00 The mattress shall be continuously stitched / tied on to the wire netting with minimum 0.4 mm dia. galvanized steel / stainless steel wire, as specified in the BOM. The spacing between the stitching / ties shall not be more than 250 mm along the width and 150 mm along the length.

4.00.00 DIMENSIONS AND DIMENSIONAL TOLERANCES

- 4.01.00 The length and width of the mattresses shall be 1520 mm x 1220 mm or 1640 mm x 1220 mm. Nominal thickness shall be 25, 40, 50, 60, 70, 75 or 80 mm.
- 4.02.00 The method of measuring the dimensions i.e. length, width and thickness shall be as prescribed in IS: 3144. Tolerance on length and width shall be as per IS:8183. Tolerance on thickness shall be +6mm/-2mm.

5.00.00 BULK DENSITY AND TOLERANCES ON DENSITY

- 5.01.00 The bulk density of the bonded mineral (rock) wool mattresses without the facings, shall be 150 / 100 kg/m³ unless otherwise specified. Tolerances on bulk density shall be +15 % and - 5% when tested as per method prescribed in IS: 3144.

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6.00.00 MATERIAL PROPERTIES

6.01.00 SHOT CONTENT:

The method for determination of shot content shall be as prescribed in IS: 3144. The maximum shot content shall be 5% by weight.

Any shot present in the materials shall not be greater than 5 mm in any dimension.

6.02.00 THERMAL CONDUCTIVITY

The thermal conductivity (k-value) of the bonded mineral wool mattresses shall not exceed the values given in IS: 8183 Latest when determined in accordance with the method prescribed in IS: 3346.

K' Value test (for minimum three mean temperatures i.e. 100°C, 200°C & 300°C) results to be provided to BHEL for acceptance in accordance with conditions given below: -

If 'K' Value test has been conducted against any BHEL order, on sample collected within 12 months prior to the date of present inspection, the related test results may be provided. Otherwise, the test will be carried out on samples identified and sealed by customer / BHEL authorized representative and related test results to be provided. The test will be carried out at govt. approved labs or test houses (at CBRI – Roorkee, IIT – Chennai, PIBCO R & D Centre - N. Delhi, NIRMA University, Ahmedabad) recognized by reputed customers.

6.03.00 HEAT RESISTANCE

When a sample of mattress is heated to the maximum recommended temperature of use (550 °C for 100 kg/m³ density and 750 °C for 150 kg/m³ density) as per method prescribed in IS:3144 (test for maximum recommended temp), the material shall not suffer visible deterioration of the fibrous structure, any fusion of fibers and shall not show any evidence of internal self-heating. Any colour change shall not be considered as visible deterioration in fibrous structure.

6.04.00 OTHER TESTS

The following tests are to be conducted as per IS:3144/IS:8183 and the acceptance norms shall be as per IS:8183.

- Moisture content
- Moisture Absorption
- Incombustibility
- Sulphur content
- Recovery after Compression
- Alkalinity

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- g. Chloride Content
- h. Fibre Diameter
- i. Resistance to vibration
- j. Resistance to jolting

7.00.00 PACKING AND MARKING

7.01.00 Stack of mattresses shall be packed in unfolded condition and sealed in polythene bags of at least 0.2mm thickness. Then the sealed bags shall be put inside the polythene lined HDPE or HDPP Woven netting bags and sealed by machine stitching.

To account for looseness in packing (if any) due to machine stitching, the bags shall be properly stacked and tightly fastened during transportation to avoid any possible damage due to relative movements. Sharp edges of wire netting shall be bent inwards to avoid damage to packing.

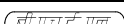
7.02.00 Each bag of mattresses shall be serial numbered. Also, printed sheets indicating the nominal thickness, density and wire netting details (i.e. material and size) shall be placed below the wire netting.

7.03.00 For easy identification of mattresses as per density & wire netting material, following colour codes for the HDPE bags is to be followed:

- a) Yellow bags with marking as shown in Fig 1 (Page 5 of 5) for 150 kg/m³ with Galvanized steel wire netting
- b) White bags with marking as shown in Fig 1 (Page 5 of 5) for 100 kg/m³ with Galvanized steel wire netting
- c) Yellow bags with marking as shown in Fig 1 (Page 5 of 5) for 150 kg/m³ with SS wire netting
- d) In case of both side SS/ GS wire meshing, additional marking "BOTH SIDE MESH" is to be provided.

7.04.00 Following details shall be legibly and indelibly marked on the packages.

- a) Project Name
- b) Vendor name:
- c) Purchase Order No. and Date
- d) Sl. No. of package/Batch No:
- e) Size of mattresses (Thickness x Length x Width)
- f) Density of mattresses
- f) Wire netting material and size
- g) Weight of the package
- h) No. of mattresses in the package
- i) A caution note "Always store under covered shed and on raised platforms"

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8.00.00 INSPECTION AND TESTING

- 8.01.00 Bonded mineral wool mattresses 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 material conforms to the requirements of this specification and of applicable standards. All shop tests shall be conducted in the presence of BHEL's / BHEL's customer's representative, on the samples identified by him / them.
- 8.02.00 The Quality Plan enclosed with this specification specifies minimum quality control requirement. During contract stage vendor shall furnish this Quality Plan duly signed & stamped for BHEL approval. Quality plan shall be approved by BHEL and customer. Inspection and testing shall be carried out as per Quality Plan by BHEL/ BHEL representative and customer (as applicable). In case inspection is by both BHEL and their customer, then the inspection can be carried out jointly or separately, which will be informed later. In case of the foreign bidder, inspection shall be carried out by reputed third party.
- 8.03.00 The charges for third party inspection (Lloyds, TUV or equivalent) for foreign bidders shall be included in the base price of the item by the bidder. This third party agency shall be approved by BHEL. Bidder to inform the same in the offer and mention the same in Quality Plan.

Note: There may be minor changes in quality plan depending on customer/consultant comments which will HAVE TO BE ACCOMMODATED BY VENDOR AT NO EXTRA COST.

9.00.00 DOCUMENTS TO BE SUBMITTED AFTER AWARD OF CONTRACT:

1. Quality plan duly signed and stamped.
2. Datasheet for Approval by BHEL/Customer.

Approval of Quality plan/ Data sheet shall be required for manufacturing clearance and the same shall be considered for delay analysis by BHEL.

	DATA SHEET- A		SPECIFICATION NO. PE-TS-020-169-M032	
	BONDED MINERAL (ROCK) WOOL MATTRESS		SECTION: II	
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B.O.M.

S.No	MATERIAL	DENSITY(Kg/m3)	THK(mm)	Quantity for One Unit(m2)
1	Bonded mineral (Rock) wool mattresses with one side GS wire netting of 13 mm x 0.56 mm size stitched with 0.4 mm GS wire	150	25	100
			40	950
			50	12950
			60	44150
			75	13500
2	Bonded mineral (Rock) wool mattresses with one side SS wire netting of 13mm X 0.56 mm size stitched with 0.4mm SS wire	150	75	4850
3	Bonded mineral (Rock) wool mattresses with one side GS wire netting of 13 mm x 0.56 mm size stitched with 0.4 mm GS wire.	100	25	2050
			40	5265
			50	45574
			60	21850
			75	56800
4	Bonded mineral (Rock) wool mattresses with both side SS wire netting of 13 mm x 0.56 mm size stitched with 0.4 mm SS wire	150	40	170
			50	3450
			60	11570
5	Bonded mineral (Rock) wool mattresses with both side GS wire netting of 13 mm x 0.56 mm size stitched with 0.4 mm GS wire	100	40	35710
			50	9650
			60	10

Note:

Quantity tolerance shall be (+)0/ (-)15 m² for each density/thickness.

		MANUFACTURER/BIDDER/VENDOR NAME & ADDRESS		STANDARD QUALITY PLAN				SPEC. NO : PE-TS-020-169-M032		DATE: 12.10.2020	
		BHEL/Customer Approved Suppliers		CUSTOMER : UTTAR PRADESH RAJYA VIDYUT UTPADAN NIGAM LTD. PROJECT: FRAMEWORK AGRREMENT FOR 1X660MW PANKI TPP ITEM: THERMAL INSULATION – RESIN BONDED MINERAL (ROCK) WOOL MATTRESSES				QP NO.: PE-QP-020-169-M032		DATE: 12.10.2020	
								PO NO.:		DATE:	
								SECTION:		SHEET 1 OF 3	
SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS	
1	2	3	4	5	M6C/N	7	8	9	**	10	

1.0 MATERIAL												
1.1	CHEMICAL COMPOSITION (RAW MATERIAL)	CHEMICAL PROPERTIES	MA	CHEMICAL	ONE SAMPLE PER LOT	ONE SAMPLE PER LOT	MANUFACTURER STANDARD	MANUFACTURER STANDARD	TC	✓	V	V
1.2	GS WIRE	1.DIMENSIONS#	MA	MEASUREMENT	IS 3150 Appendix A	IS 3150 Appendix A	IS 3150	IS 3150/ BHEL/CUSTOMER APPROVED DATA SHEET	IR	✓	P	W #
		2.GAUGE DIAMETER	MA	MEASUREMENT			IS 280	BHEL/CUSTOMER APPROVED DATA SHEET	IR	✓	P	W #
		3. CHEMICAL	MA	LAB. TEST			IS 280	IS 7887	TC	✓	P	V
		4. COATING TEST	MA	LAB. TEST			IS 280	IS 4826	TC	✓	P	V
		5. TENSILE TEST	MA	LAB. TEST			IS 280	IS 280	TC	✓	P	V
		6. WRAPPING TEST	MA	LAB. TEST			IS 280	IS 280	TC	✓	P	V
		7. BEND TEST	MA	LAB. TEST			IS 280	IS 280	TC	✓	P	V
1.3	SS WIRE	1.DIMENSIONS#	MA	MEASUREMENT	IS 6528	IS 6528	IS 3150	IS 3150/ BHEL/CUSTOMER APPROVED DATA SHEET	IR	✓	P	W #
		2.GAUGE DIAMETER	MA	MEASUREMENT	IS 3150	IS 3150	IS 6528	IS 6528/ BHEL/CUSTOMER APPROVED DATA SHEET	IR	✓	P	W #
		3.CHEMICAL ANALYSIS	MA	LAB. TEST	16 6528	IS 6258	IS 6528	IS 6528	TC	✓	P	V
		4.TENSILE TEST	MA	LAB. TEST	IS 6528	IS 6528	IS 6528	IS 6528	TC	✓	P	V
		5. REVERSE BEND TEST	MA	LAB. TEST	IS 6528	IS 6528	IS 6528	IS 6528	TC	✓	P	V
		6. WRAPPING TEST	MA	LAB. TEST	IS 6528	IS 6528	IS 6528	IS 6528	TC	✓	P	V
		7. TORSION TEST	MA	LAB. TEST	IS 6528	IS 6528	IS 6528	IS 6528	TC	✓	P	V
2.0 IN-PROCESS INSPECTION												
1.1	FINISHED MATTRESS	DIMENSION & TOLERANCE	MA	MEASUREME NT	IS 8183	IS 8183	IS 3144	IS 8183/ BHEL/CUSTOMER APPROVED DATA SHEET	TC	✓	P	V
3.0 FINAL INSPECTION												

BHEL				BIDDER/ SUPPLIER				FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING		QUALITY		Sign & Date		Sign & Date		Doc No:		Sign & Date	
Prepared by:	S B Verma	Checked by:	K K Yadav	Seal		Seal		Reviewed by:		Seal	
Reviewed by:	Kuldeep Kumar	Reviewed by:	R K Jaiswal					Approved by:			

	MANUFACTURER/BIDDER/VENDOR NAME & ADDRESS		STANDARD QUALITY PLAN					SPEC. NO : PE-TS-020-169-M032				DATE: 12.10.2020		
	BHEL/Customer Approved Suppliers		CUSTOMER : UTTAR PRADESH RAJYA VIDYUT UTPADAN NIGAM LTD.					QP NO.: PE-QP-020-169-M032				DATE: 12.10.2020		
			PROJECT: FRAMEWORK AGRREMENT FOR 1X660MW PANKI TPP					PO NO.:				DATE:		
			ITEM: THERMAL INSULATION – RESIN BONDED MINERAL (ROCK) WOOL MATTRESSES					SECTION:				SHEET 2 OF 3		
SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY		REMARKS		
1	2	3	4	5	M	C/N	7	8	9	*	M	C	N	10
3.1	BONDED MINERAL (ROCK) WOOL MATTRESSES (FINISHED PRODUCT)#	1. DIMENSIONS	MA	MEASUREMENT	IS 8183	IS 8183	IS 3144	IS 8183/ BHEL/CUSTOMER APPROVED DATA SHEET	IR	✓	P	W	V	Routine tests
		2. APPEARANCE	MA	VISUAL	IS 8183	IS 8183	IS 3144	SHALL BE FREE FROM VOIDS, CRACKS	IR					
		3. BULK DENSITY	MA	LAB. TEST	IS 8183	IS 8183	IS 3144	IS 8183/ BHEL/CUSTOMER APPROVED DATA SHEET	TC	✓	P	W	V	
		4.SHOT CONTENT	MA	LAB. TEST	IS 8183	IS 8183	IS 3144		TC	✓	P	W	V	
		5. SULPHUR CONTENT	MA	LAB. TEST	IS 8183	IS 8183	IS 3144		TC	✓	P	W	V	
		6. ALKALINITY	MA	LAB. TEST	IS 8183	IS 8183	IS 8183		TC	✓	P	W	V	
		7. CHLORIDE CONTENT	MA	LAB. TEST	IS 8183	IS 8183	IS 3144		TC	✓	P	W	V	
		8. MOISTURE CONTENT	MA	LAB. TEST	IS 8183	IS 8183	IS 3144		TC	✓	P	W	V	
		9.THERMAL CONDUCTIVITY (K VALUE)	CR	LAB. TEST	IS 8183	IS 8183	IS 3346	IS 8183/ BHEL/CUSTOMER APPROVED DATA SHEET	TC	✓	P	W	V	Type test REFER NOTES 4 & 5
		10. HEAT RESISTANCE	MA	LAB. TEST	IS 8183	IS 8183	IS 3144		TC	✓	P	W	V	Type tests REFER NOTE 6
		11.MOISTURE ABSORPTION	MA	LAB. TEST	IS 8183	IS 8183	IS 3144		TC	✓	P	W	V	
		12. RECOVERY AFTER COMPRESSION	MA	LAB. TEST	IS 8183	IS 8183	IS 8183		TC	✓	P	W	V	
		13. INCOMBUSTIBILITY	MA	LAB. TEST	IS 8183	IS 8183	IS 3144	IS 8183/ BHEL/CUSTOMER APPROVED DATA SHEET	TC	✓	P	W	V	
		14.RESISTANCE TO VIBRATION	MA	LAB. TEST	IS 8183	IS 8183	IS 3144		TC	✓	P	W	V	
		15. RESISTANCE TO JOLTING	MA	LAB. TEST	IS 8183	IS 8183	IS 3144		TC	✓	P	W	V	
		16. FIBRE DIAMETER	MA	LAB. TEST	One for each density	One for each density	IS 3144		TC	✓	P	W	V	
3.2	PACKING & MARKING	PACKING TYPE AND IDENTIFICATION MARKING	MA	VISUAL	RANDOM	RANDOM	BHEL/CUSTOMER APPROVED DATA SHEET/PACKING PROCEDURE	SOFT COPY OF PHOTO GRAPH	✓	P	W	-	REFER NOTE 2	

BHEL				BIDDER/ SUPPLIER				FOR CUSTOMER REVIEW & APPROVAL					
ENGINEERING		QUALITY		Sign & Date		Sign & Date		Doc No:		Sign & Date		Seal	
Prepared by:	Sign & Date	Name	Checked by:	Sign & Date	Name	Seal	Reviewed by:	Sign & Date	Name	Seal	Reviewed by:	Sign & Date	Seal
Reviewed by:		S B Verma	Reviewed by:		K K Yadav		Approved by:				Approved by:		
		Kuldeep Kumar			R K Jaiswal								

	MANUFACTURER/BIDDER/VENDOR NAME & ADDRESS		STANDARD QUALITY PLAN				SPEC. NO : PE-TS-020-169-M032		DATE: 12.10.2020		
	BHEL/Customer Approved Suppliers		CUSTOMER : UTTAR PRADESH RAJYA VIDYUT UTPADAN NIGAM LTD.				QP NO.: PE-QP-020-169-M032		DATE: 12.10.2020		
			PROJECT: FRAMEWORK AGREEMENT FOR 1X660MW PANKI TPP				PO NO.:		DATE:		
			ITEM: THERMAL INSULATION – RESIN BONDED MINERAL (ROCK) WOOL MATTRESSES				SECTION:		SHEET 3 OF 3		
SL NO.	COMPONENT & OPERATIONS	CHARACTERIST-ICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS	
1	2	3	4	5	6	7	8	9	* **	10	
					M	C/N		D	M	C	N

NOTES:

- In case of foreign supplier, all test certificates shall be furnished by the supplier, duly witnessed/verified by supplier's TPI.
- Following to be noted for packing:
 - Material shall be packed suitably in order to avoid damage during transit and also during storage at site in tropical climate conditions for a period of 15-18 months.
 - Photographs of the packing (with LR No.) as per approved packing procedure (if applicable) just before dispatch.
- BHEL reserves the right for conducting repeat test, if required.
- 'K' Value test will be carried out on samples identified and sealed by BHEL Inspector once in twelve (12) months irrespective of ongoing projects. The tests will be carried out at govt. approved labs (at CBRI - Roorkee, IIT - Chennai or PIBCO R & D Centre, N. Delhi, NIRMA University, Ahmedabad). 'K' Value test will be carried out for at least three mean temperatures i.e. 100 OC, 200 OC & 300 OC for each density.
- Thermal conductivity type test reports shall be submitted to BHEL Engineering for review and approval.
- Type tests (except thermal conductivity) shall be done once in 3 months in the presence of BHEL/BHEL AIA.
- The latest revisions/year of issue of all the IS indicated in the QP shall be referred.
- Project specific QP will be prepared by Indenting unit based on customer requirement.

LEGENDS:

*D: Records, identified with "Tick" (✓) shall be essentially included by supplier in QA Documentation.

** M: Supplier/ Manufacturer/ Sub-Supplier

P: Perform

MA: Major Characteristic

IR: Inspection Report

W: Witness

MI: Minor Characteristic

TC: Test Certificate

N: Customer

V: Verification

CR: Critical Characteristic

BHEL				BIDDER/ SUPPLIER				FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING		QUALITY		Sign & Date		Sign & Date		Doc No:			
Prepared by:	Name	Checked by:	Name	Seal		Name	Seal				
Reviewed by:	S B Verma	Reviewed by:	K K Yadav								
	Kuldeep Kumar		R K Jaiswal								

STANDARD TECHNICAL DATA SHEET FOR LIGHT RESIN BONDED MINERAL (ROCK) WOOL MATTRESSES			
PROJECT:FRAMEWORK AGREEMENT FOR 1X660MW PANKI TPP			
QP NO:PE-QP-020-169-M032			
SPECIFICATION NO: PE-TS-020-169-M032			
SL. No.	CHARACTERISTICS	ACCEPTANCE/PERMISSIBLE LIMIT	
1	MATERIAL	LRB Rock wool mattresses confirming to IS:8183/Latest.	
2	Bulk Density	100 Kg/m ³ & 150 Kg/m ³ with (+)1.5% & (-)5% tolerance.	
3	Mattresses Size	1640mm x 1220mm/1520mm x 1220mm	
4	Thickness	25,40,50,60,75mm (Thickness values as per BOM) Tolerance on thickness shall be +6mm/-	
5	Service Temperature	Upto 400 °C - 100 Kg/m ³ Above 400 °C - 150 Kg/m ³	
6	Thermal Conductivity as per IS 8183/93 (Group 3/Group 4)	Mean Temp.	100 Kg/m ³ (Group 3) K value in mW/cm. °C (Max)
		100 °C	0.52
		200 °C	0.73
		300 °C	0.93
7	Chloride content	0.01 % max.	
8	Shot content	Shot shall not exceed 5% maximum by weight.	
		Shot shall not be greater than 5mm in any dimension.	
9	Sulphur content	0.6% max	
10	Moisture Content (Weight gain by moisture absorption)	2 % max	
11	Incombustibility Test (loss of weight after test)	5% max	
12	Resistance to vibration	1 % max	
13	Resistance to jolting	3 % max	
14	Alkalinity	7-10 pH	
15	Recovery After Compression	90% minimum after compression to 75% of the original Thickness.	
16	Fibre Diameter	7.0 Micron max.	
17	SS wire netting (above 400 deg.C)	As per IS:6528 & 3150, Aperture 13mm & Wire Dia 0.56mm.(Wire Dia and single side/ Both sides wire netting as per BOM).	
18	SS Tying/Stitching wire (above 400 deg.C)	Wire Dia 0.40mm As per IS:6528.	
19	GI wire netting (upto 400 deg.C)	As per IS:280 & 3150, Aperture 13mm & Dia 0.56mm.(Wire Dia and single side/ Both sides wire netting as per BOM).	
20	GI Tying/Stitching wire (upto 400 deg.C)	Wire dia 0.40mm As per IS:280.	
21	Packing, Marking & other requirement	Stack of mattresses shall be packed in unfolded condition and sealed in polythene bags of at least 0.2mm thickness. Then the sealed bags shall be put inside the polythene lined HDPE or HDPP Woven netting bags and sealed by machine stitching. Packing to be duly marked with a caution note "Always store under covered shed and on raised platforms". For marking and other details Technical specification is to be referred.	
BIDDER/SUPPLIER		BHEL	

97306/2020/PS-PEM-MPL

	COMPLIANCE SHEET BONDED MINERAL (ROCK) WOOL MATTRESSES FRAMEWORK AGREEMENT FOR 1X660MW PANKI TPP		SPECIFICATION NO. PE-TS-020-100-M003	
			SECTION : II	
	REV. NO.: 00		DATE: 12.10.2020	
	Sheet 1 of 1			

I hereby comply/not comply (*) to all the requirements of this technical specification in totality.

* In case the bidder does not comply to the technical specification, the deviations shall be explicitly listed in the technical deviation sheet of GCC. Deviations listed in technical deviation sheet shall only be considered.

Name of Bidder / Authorized Representative :-

Designation :-

Signature :-

Company Seal :-

Date :-

PARTICULARS OF BIDDER / AUTHORISED REPRESENTATIVE					
NAME	DESIGNATION	SIGNATURE	DATE	COMPANY SEAL	