



An ISO 9001  
Company

## Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

MATERIALS MANAGEMENT

<b>TITLE</b>  <b>Supply of LRB Wool on Rate Contract basis for 2 years</b>	Phone: +91 <b>431 2577472/257457</b> Fax : <b>+91 431 252 0719</b> Email : <a href="mailto:rksamy@bheltry.co.in">rksamy@bheltry.co.in</a> ; <a href="mailto:cmouli@bheltry.co.in">cmouli@bheltry.co.in</a>
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	<b>Reference Number:</b> <b>Enquiry –</b> <b>1801301475/03</b>	<b>Enquiry Date:</b> <b>25.10.13</b>	<b>Due date for submission of quotation: 30.11.13</b>
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 “LRB Wool on regular basis”**

BHEL commercial terms & conditions with Price Bid formats and all annexure can be downloaded from BHEL web site <a href="http://www.bhel.com">http://www.bhel.com</a> or from the Government tender website <a href="http://tenders.gov.in">http://tenders.gov.in</a> (public sector units) Bharath Heavy Electricals Limited) under enquiry reference “ <b>1801301475/03</b> ”	
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 <b>Bharath Heavy Electricals Limited</b>  <i>Engineer/BOI</i>



General Note: **BHARAT HEAVY ELECTRICALS LIMITED**

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( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - FOSSIL BOILERS  
THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

PHONE : 2577074  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail :  
Web :

429-002/A

OFFICE COPY	Collective No.	Enquiry Date	Due Date For Quotation
	1801301475/03	25.10.2013	30.11.2013
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	220208440000 LRB ROCK WOOL MATTRESS-100KG/CUM THICKNESS:40MM G.I WIRE NETTING ON ONE SIDE DRG: 4-33-021-00833/C5 <(>&<)> 4-33-021-00834/04 TEST CERTIFICATE REQUIRED.GUARANTEE CERTIFICATE REQUIRED.	M2	46025.000	46025.00	25.11.15
20	220208450000 LRB ROCK WOOL MATTRESS-100KG/CUM THICKNESS:50MM G.I WIRE NETTING ON ONE SIDE DRG: 4-33-021-00833/C5 <(>&<)> 4-33-021-00834/04 TEST CERTIFICATE REQUIRED.GUARANTEE CERTIFICATE REQUIRED.	M2	133743.000	133743.00	25.11.15
30	220208460000 LRB ROCK WOOL MATTRESS-100KG/CUM THICKNESS:60MM G.I WIRE NETTING ON ONE SIDE DRG: 4-33-021-00833/C5 <(>&<)> 4-33-021-00834/C4 TEST CERTIFICATE REQUIRED.GUARANTEE CERTIFICATE REQUIRED.	M2	30749.000	30749.00	25.11.15
40	220208470000 LRB ROCK WOOL MATTRESS-100KG/CUM THICKNESS:40MM G.I WIRE NETTING ON BOTH SIDE DRG: 4-33-021-00833/05 >&<)> 4-33-021-00834/04 TEST CERTIFICATE REQUIRED.GUARANTEE CERTIFICATE REQUIRED.	M2	48340.000	48340.00	25.11.15
50	220208480000 LRB ROCK WOOL MATTRESS-100KG/CUM THICKNESS:50MM G.I WIRE NETTING ON BOTH SIDE DRG: 4-33-021-00833/05 <(>&<)> 4-33-021-00834/04 TEST CERTIFICATE REQUIRED.GUARANTEE CERTIFICATE REQUIRED.	M2	3,16,004.000	3,16,004.00	25.11.15
60	220208490000 LRB ROCK WOOL MATTRESS-100KG/CUM THICKNESS:60MM G.I WIRE NETTING ON	M2	34,590.000	34,590.00	25.11.15

The offers should reach us 30 minutes before the time of opening of tenders.  
The offers will be opened at 14.30 hrs on the due date of tender in the presence of  
tenderers who have submitted their offer and who may like to be present for the tender  
opening.Late and delayed offers are liable to be rejected.

Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**

**CHANDRAMOULI. M**  
Engineer  
Materials Management / BOI  
BHEL, TIRUCHY - 620 014.

*Chandramouli M*  
MANAGER / PURCHASE  
(FOSSIL BOILERS)



# BHARAT HEAVY ELECTRICALS LIMITED

( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - FOSSIL BOILERS  
THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

Page: 2/2

1801301475 / 25.10.2013

19915

BOTH SIDE DRG: 4-33-021-00833/05 &< >  
4-33-021-00834/04  
TEST CERTIFICATE REQUIRED.GUARANTEEE  
CERTIFICATE REQUIRED.

70	220208530000 LRB ROCK WOOL MATTRESS-150KG/CUM THICKNESS:50MM G.I WIRE NETTING ONE side DRG: 4-33-021-00833/05 <(>&< > 4-33-021-00834/04 TEST CERTIFICATE REQUIRED.GUARANTEEE CERTIFICATE REQUIRED. THIRD PARTY INSPECTION NOT REQUIRED.	M2	6,60,990.000	6,60,990.00	25.11.15
80	220208540000 LRB ROCK WOOL MATTRESS-150KG/CUM THICKNESS:60MM G.I WIRE NETTING ONE side DRG: 4-33-021-00833/05 <(>&< > 4-33-021-00834/04 TEST CERTIFICATE REQUIRED.GUARANTEEE CERTIFICATE REQUIRED. THIRD PARTY INSPECTION NOT REQUIRED.	M2	2,00,770.000	2,00,770.00	25.11.15
90	220208550000 LRB ROCK WOOL MATTRESS-150KG/CUM THICKNESS:50MM SS WIRE NETTING BOTH sides DRG: 4-33-021-00833/05 <(>&< > 4-33-021-00834/04 TEST CERTIFICATE REQUIRED.GUARANTEEE CERTIFICATE REQUIRED. THIRD PARTY INSPECTION NOT REQUIRED.	M2	6,965.000	6,965.00	25.11.15
100	220208560000 LRB ROCK WOOL MATTRESS-150KG/CUM THICKNESS:60MM SS WIRE NETTING BOTH sides DRG: 4-33-021-00833/05 <(>&< > 4-33-021-00834/04 TEST CERTIFICATE REQUIRED.GUARANTEEE CERTIFICATE REQUIRED. THIRD PARTY INSPECTION NOT REQUIRED.	M2	1,70,720.000	1,70,720.00	25.11.15

Project wise individual sizes are provided in the "annexure" 2-2  
All other terms are enclosed along with this enquiry.

This Enquiry shall be monitored by Independent External Monitor

Shri J. M. Lyngdoh, IAS (Retd.)

Plot No. 144-145,  
Pragati Resort,  
Proddator Village & P.O.,  
Shankarpally Road,  
Rangareddy Distt. (AP)

**General Note:**

**Enclosures:**

Integrity pact enclosed is to be filled in and shall be sent along with your techno commercial offer.

The offers should reach us 30 minutes before the time of opening of tenders.  
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

CHANDRAMOULI. M  
Engineer  
Materials Management / BOI  
BHEL, TIRUCHY - 620 014.

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

*U. Sankaranarayanan*  
MANAGER / PURCHASE  
(FOSSIL BOILERS)  
Yours faithfully,



## PURCHASE SPECIFICATION FOR LRB ROCK WOOL MATTRESS

01. Material shall be Rock wool.
  02. Material shall conform to Group-3 and Group-4 of IS:8183(Latest), Density 100 Kg/cu.m for Group-3 and 150 Kg/cu.m for Group-4.
  03. **Wire netting :**  
Wire dia. = 0.56 mm (24 SWG) and Aperture 13 mm.
    - a). GI Wire netting on one side up to 400°C.
    - b). GI Wire netting on both sides up to 400°C
    - c). SS Wire netting on one side above 400°C
    - d). SS Wire netting on both sides above 400°C.
  04. **Tieing Wire:**
    - a). 0.4 mm GI Wire – for GI wire netting.
    - b). 0.4 mm SS Wire – for SS wire netting.  
– Continuous stitching of equal spacings.
  05. **Mattress:**  
Thickness : 40,50,60,70,75 mm
  06. **Inspection and Testing procedure :**  
As mentioned in the Annexure (Drg.No. 4-33-021-00834/04)
  07. **Packing:** The material shall be packed in polythene laminated HDPE or polythene laminated polypropelene bags with Marking details.
  08. **Marking:** The following details are to be legibly written on the packing as well as on a sheet of paper which is to be kept inside, between wool and wire netting.
    - a). Supplier's Name, b). Customer Number/Project,
    - c). Purchase Order Number/Date d). Serial No.of Packing,
    - e). Batch No. f). Thickness of Mattresses,
    - g). No.of Mattresses in the Packing, h). Weight of the packing in Kgs.
- Caution Note:**  
"Always store under covered shed and on raised platforms"  
shall also be marked on the packing.

REV: 03	ALTD: A.R.JOTHI	Group-04 and 150 Kg/cu.m added in sl.no.02.	REV: 06	ALTD:		
05.04.10	APPD: C.G.S			APPD:		
REV: 02	ALTD: A.R.JOTHI	Revision 01 marked on drg.no. 4-33-021-00834.	REV: 05	ALTD: A.R.JOTHI	Sl.nos. 03,04,06 and 07 text are altered.	
14.07.07	APPD: C.G.S		31.03.12	APPD: C.G.S		
REV: 01	ALTD: A.R.JOTHI	Packing details altered as per Purchase request.	REV: 04	ALTD: A.R.JOTHI	SS wire added in sl.no. 03 and 04.	
25.05.07	APPD: C.G.S		10.02.11	APPD: C.G.S		
<b>INSULATION</b>	PREPARED	A.R.JOTHI GURUNATHAN.		21.06.05	<b>DRAWING NO : 4-33-021-00833</b>	<b>REV 05</b>
	CHECKED	C.GUNASEKARAN		22.06.05		
	APPROVED	C.S.ATHITHYAN		22.06.05		



## INSPECTION & TESTING REQUIREMENTS FOR LRB ROCK WOOL MATTRESS (Annexure to 4-33-021-00833/05)

### 1.0 ROUTINE TEST:

The following tests are to be conducted for every batch.

- a). Bulk density Kg/Cu.m , Tolerance  $\pm 10\%$
- b). Shot content
- c). Percentage of moisture
- d). Chloride content
- f). Alkalinity
- g). Sulphur content

### 2.0 TYPE TEST:

The following type tests shall be done once in three months.

- a). Moisture absorption
- b). Incombustability
- c). Heat resistance at 550°C for Group-3 and 750°C for Group-4.
- d). Resistance to vibration and jolting
- e). Compressibility and resilience
- f). Fibre diameter (7 microns max.)

The above Tests are to be conducted as per IS:3144 (Latest) and acceptance standard shall be IS:8183 unless specified otherwise.

### 3.0 THERMAL CONDUCTIVITY TEST:

The above test shall be conducted once in twelve months at any one of the following approved laboratories as per IS:3346.

- a). Dept of Mechanical Engineering , IIT, Chennai.
- b). Central Building Research Institute, Roorkee.
- c). PIBCO, New Delhi.
- d). NIRMA University, Ahmedabad.

A Test Certificate containing all the above results shall be furnished.

REV: 03	ALTD: A.R.JOTHI	Annexure drg.no. revised as 4-33-021-00833/04.	REV: 06	ALTD:	
11.05.11	APPD: C.G.S			APPD:	
REV: 02	ALTD: A.R.JOTHI	Temp for heat resistance test for group-4 included.	REV: 05	ALTD:	
05.04.10.	APPD: C.G.S			APPD:	
REV: 01	ALTD: A.R.JOTHI	Periodicity of TC test changed from 6 to 12 months.	REV: 04	ALTD: A.R.JOTHI	Approved laboratories updated for TC test.
14.07.07	APPD: C.G.S		31.03.12	APPD: C.G.S	
<b>INSULATION</b>	PREPARED	A.R.JOTHI GURUNATHAN.	21.06.05	DRAWING NO : <b>4-33-021-00834</b>	
	CHECKED	C.GUNASEKARAN	22.06.05		
	APPROVED	C.S.ATHITHYAN	22.06.05		
					<b>REV 04</b>



# STANDARD QUALITY PLAN

**MANUFACTURER'S NAME & ADDRESS**  
**BHEL: TIRUCHIRAPPALLI /**  
**APPROVED**  
**SUB-CONTRACTOR**

**ITEM: LRB WOOL MATTRESS-IS 8183 GROUP-3 - 1993**

**QP NO.: CQP 4612**  
**REV.NO.00 DATE: 31/03/2012**  
**PAGE: 1 OF 2**

**SUB-SYSTEM : Steam Generator and Auxiliaries**

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	6	7	8	9	M C N	11

**1.0 RAW MATERIAL:**

1.1	Raw material (Rock & Binders.)	Chemical Properties	B	Lab analysis	1sample/lot	As per vendor standard.		MTC	✓	P	V	V		
		Wire diameter & Dimension of netting	B	Measurement	IS-3150 Append 'A'	IS 3150 / BHEL Approved Data Sheet		MTC	✓	P	W	W		
		Chemical	B	Lab analysis	-do-	IS 280 & IS 7887	IS 7887		MTC	✓	P	V	V	
		Tensile test	B	Lab analysis	-do-	IS 280 & IS 1608	IS 280		MTC	✓	P	V	V	
		Wrapping test	B	-do-	-do-	IS 280	IS 280		MTC	✓	P	V	V	
		Coating test	B	-do-	-do-	IS 280	IS 4826		MTC	✓	P	V	V	
		Dimensions of netting	B	Measurement	-do-	IS 3150			MTC	✓	P	W	W	
		Bend test	B	-do-	-do-	IS 280			MTC	✓	P	V	V	
		Gauge(wire diameter)	B	Measurement	IS :3150	IS 6528	BHEL Approved Data Sheet		MTC	✓	P	W	W	
		Dimension of netting	B	-do-	IS :6528	P.S. /IS 3150 & BHEL Approved Data Sheet			MTC	✓	P	W	W	
1.3	SS wire netting: Wire (Above 400 deg C)	Chemical	B	Lab analysis	-do-	IS 6528	GrX0.04Cr18 Ni10	MTC	✓	P	V	V		
		Reverse Bend Test	B	Lab analysis	-do-	-do-	-do-	MTC	✓	P	V	V		
		Wrapping test	B	Lab analysis	IS 6528	-do-	GrX0.04Cr18 Ni10		MTC	✓	P	V	V	
<b>IN PROCESS CONTROL:</b>														
2.0	Finished Mattress	Dimension	B	Measurement	IS-8183	IS:3144, IS:8183 / BHEL Approved Data Sheet		MTC	✓	P	W	W*	*At Random	
<b>3.0 FINAL INSPECTION : (PER BATCH)</b>														
3.1	Mattress	Bulk Density	B	Lab Test (R)	IS 8183 Appendix 'C'	IS:3144, IS:8183 / BHEL Approved Data Sheet		MTC	✓	P	W	W*	*At Random	
		Recovery after Compression	B	Lab Test (R)				MTC	✓	P	W	W		
		Shot content	B	Lab Test (R)				MTC	✓	P	W	W		
		Moisture content	B	Lab Test (R)	IS:8183 / BHEL Approved Data Sheet	IS:8183 Appendix A		MTC	✓	P	W	W	Refer Note: 4	
		Moisture absorption	B	Lab Test (T)				MTC	✓	P	W	W	Refer note: 1	
		Incombustibility	B	Lab Test (T)				MTC	✓	P	W	W	Refer note: 1	
		Thermal conductivity	B	Lab Test (Ts)	-do-	IS 3346		MTC	✓	P	V	V	Refer Note: 1 & 2	
		Suphur content	B	Lab Test (R)	-do-	IS 3144		MTC	✓	P	W	W	Refer Note: 4	
		Fibre Diameter	B	Lab Test (T)	-do-	IS 3144		MTC	✓	P	W	W	Refer Note: 4	

*J. Nanthini*  
31/03/2012  
PREPARED BY J.NANTHINI

*V. Kalvanarawan*  
31/3/2012  
APPROVED BY V.KALVANARAWAN

**LEGEND:** \* RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. \*\* M: MANUFACTURER C: MANUFACTURERS' QC N: BHEL / BHEL AIA P: PERFORM. W: WITNESS. V: VERIFICATION, CHP: CUSTOMER SHALL IDENTIFY IN COLUMN "N" AS "W" CLASS: A - CRITICAL; B - MAJOR; C - MINOR MTC - Mill /Manufacturer's Test Certificate; IR - Inspection Report. (R): Routine test. (T)/(Ts): Type test.



# STANDARD QUALITY PLAN

**MANUFACTURER'S NAME & ADDRESS**  
**BHEL: TIRUCHIRAPPALLI / APPROVED**  
**SUB-CONTRACTOR**

**ITEM: LRB WOOL MATTRESS-IS 8183 GROUP-3 - 1993**

**QP NO.: QP 4612**  
**REV.NO.00 DATE: 31/03/2012**  
**PAGE: 2 OF 2**

**SUB-SYSTEM : Steam Generator and Auxiliaries**



SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS	
									M	C	N		
1	2	3	4	5	6	7	8	9	D	**	10	11	
3.10	Mattress	Resistance to Vibration	B	Lab Test (T)	IS 8183 Appendix 'C'	IS 3144	IS 8183	MTC	✓	P	W	W	Refer note: 1
3.11		Resistance to Jolting	B	Lab Test (T)	-do-	-do-	-do-	MTC	✓	P	W	W	Refer note: 1
3.12		Heat resistance at 550 deg C	B	Lab Test (T)	-do-	-do-	-do-	MTC	✓	P	W	W	Refer note: 1
3.13		Alkalinity	B	Lab Test (R)	-do-	IS 8183 - Annexure-B	-do-	MTC	✓	P	W	W	Refer Note: 4
3.14		Chloride content (corrosives)	B	Lab Test (R)	-do-	-do-	-do-	MTC	✓	P	W	W	
4.0	<b>PACKING, MARKING AND PRESERVATION:</b>												
4.1	Packing, Marking and Preservation.	Identification	B	Visual	IS 8183	BHEL Purchase specification/ BHELApproved Data Sheet / BHEL Purchase Order		TC		P	W	V	Refer Note: 7
4.2		Protection	B	-do-	-do-								
5.0	CERTIFICATION	Test certificate	B	The supplier shall furnish the certificates indicating the Date of manufacture, Test values, batch number, batch quantity, date of testing, specification to which the material is tested for the routine tests conducted and type test conducted.									

**BATCH - Entire production made in identical conditions viz., total production of Wool mattress for BHEL Purchase order from start up to close of furnace for a particular period.**  
**The batch shall be constituted of same size in thickness of the mattress.**

**NOTES:**

1. Type test marked as '(T)' shall be done once in 3 months in the presence of BHEL/BHEL AIA for BHEL Purchase order and '(T/s)' shall be done once in 12 month. The valid type test reports shall be submitted for review at the time of inspection.
2. Thermal Conductivity test shall be carried out on the sealed sample jointly selected by manufacturer and BHEL, in any one of the laboratories: (1) IIT CHENNAI. (2) CBRI, Roorkee. (3) PIBCO, New Delhi. (4) NIRMA University, Ahmedabad. The original test certificate shall be submitted to BHEL Engineering/QA for review and approval. Shall be produced during the inspection of the product at the manufacturing works.
3. All routine tests shall be carried out in the Manufacturers own laboratory (Shall be approved by BHEL).
4. Products shall be inspected by BHEL/BHEL Authorized Inspection Agency/Customer- as indicated in the BHEL purchase order. The internal test records of routine tests shall be submitted for review during inspection. **Sample identified from the finished lot shall be subjected to routine tests and witness by BHEL BHEL AIA.**
5. Manufacturer shall prepare and submit a separate manufacturing quality plan wherever BHEL's customer approval is envisaged (as specified in the BHEL purchase order).
6. The mattress shall be handable without any lump formation and disintegration of material.
7. The relevant IS Nos & year of issue: IS: 8183-1993; IS:3150-1982; IS:280-2006; IS:7887-1992; IS:1608-2005; IS:4826-1979; IS:6528-1995; IS:3144-1992; IS:3346-1980
8. The mattresses shall be packed in Polythene laminated polypropylene or HDPE bags. Mattresses of same thickness shall be packed in one bag.
9. All material test certificates of Routine test and type test shall be submitted during witness / final inspection to inspection agency as indicated in the PO.
10. P.S - Purchase Specification - BHEL Drawing No: 4-33-021-00833 Rev 05 & 4-33-021-00834 Rev 04.



<p><i>J. Nanthini</i>  <b>31/03/2012</b>          PREPARED BY</p>	<p><i>V. Kalayanaraman</i>  <b>31/3/2012</b>          APPROVED BY</p>
<p>SIGNATURE</p>	
<p><b>LEGEND: * RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. ** M: MANUFACTURER C: MANUFACTURERS' QC N: BHEL / BHEL AIA P: PERFORM W: WITNESS V: VERIFICATION, CHP: CUSTOMER SHALL IDENTIFY IN COLUMN "N" AS "W" CLASS: A - CRITICAL; B - MAJOR; C - MINOR MTC - Mill /Manufacturer's Test Certificate; IR- Inspection Report. (R): Routine test (T)/(T/s): Type test.</b></p>	

	MANUFACTURER'S NAME AND ADDRESS <b>BHEL : TIRUCHIRAPPALLI / APP SUB - CONTRACTOR</b>		<b>REFERENCE QUALITY PLAN</b>					TO BE FILLED IN BY INSURANCE					
	ITEM /EQUIPMENT : <b>LRB WOOL MATTRESS-IS 8183 GROUP-3 - 1993 SUB-SYSTEM : STEAM GENERATOR AND AUX</b>		QP NO.: CQP 1474 REV. NO.: 05 DATE :30-4-09 PAGE...1... OF...4.		SIGN. OF MFGR'S <i>[Signature]</i>		QP NO.: 0000-999-QVM- P -261 REV. NO.: 02 DATE : 06-05-09 PAGE...1... OF...4 VALID UPTO: 05.05.12		REVIEWED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i>		APPROVED NTPC, NOIDA		
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CL	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			
1	2	3	4	5	6	7	8	9	D*	M	C	N	11
										** 10			

1.0	<b>MATERIAL:</b>													
1.1	Raw material (Rock wool)	Chemical	B	Lab analysis	1sample/lot	As per vendor	standard	MTC		P	V	-		
1.2	GI wire netting Wire	Wire dia & dimension of netting	B	Measurement	IS3150 Append 'A'	IS:3150-\$/ Col.-2 / approved Data	NTPC sheet	MTC		P	W	V	Upto 400 deg.C	
		Chemical	B	Lab analysis	-do-	IS:280	IS:7887	IS:7887	MTC		P	V	V	\$-Note - 2
		Tensile test	B	-do-	-do-	IS:280	IS:1608	IS:280	MTC		P	V	V	
		Wrapping test	B	-do-	-do-	IS:280	IS:280	IS:280	MTC		P	V	V	
		Coating test	B	-do-	-do-	IS:280	IS:280	IS:4826	MTC		P	V	V	
		Dimensions of netting	B	Measurement	-do-	-do-	IS:3150		MTC		P	W	V	
		Bend test	B	-do-	-do-	-do-	IS:280		MTC		P	V	V	
1.3	SS wire netting:	Gauge(wire dia)	B	-do-	IS3150	IS:6528 &	NTPC approved Data sheet	MTC		P	W	V	Above 400 deg.C	
		Dimension of netting	B	-do-	IS6528	P.S. /IS:3150	IS:3150 & NTPC Approved data sheet	MTC		P	W	V		
		Chemical	B	Lab analysis	- do-	IS:6528	IS:6528	GrX0.04Cr18 Ni10	MTC		P	V	V	
		Reverse bend test	B	-do-	- do-	-do-	-do-	-do-	MTC		P	V	V	
		Wrapping test	B	Lab analysis	IS6528	IS:6528	IS:6528	Gr X0.04Cr18Ni10	MTC		P	V	V	

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




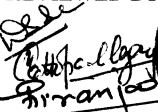
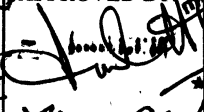
**Note:#** NTPC Inspection Engineer to check, approval date/ revision no. of reference documents at the time of inspection

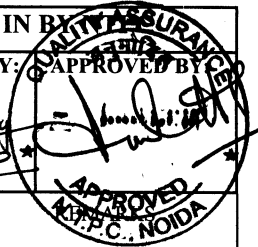
	MANUFACTURER'S NAME AND ADDRESS BHEL : TIRUCHIRAPPALLI/ APP SUB - CONTRACTOR		<b>REFERENCE QUALITY PLAN</b>					TO BE FILLED IN BY					
			ITEM /EQUIPMENT : LRB WOOL MATTRESS-IS 8183 GROUP-3 - 1993 SUB-SYSTEM : STEAM GENERATOR AND AUX	QP NO.: CQP 1474 REV. NO.: 05 DATE :30-4-09 PAGE...2... OF...4.	SIGN. OF MFGR'S <i>[Signature]</i>		QP NO.: 0000-999-QVM- P -261 REV. NO.: 02 DATE : 06-05-09 PAGE 2... OF...4 VALID UPTO: 05-05-12	REVIEWED BY: <i>[Signature]</i> APPROVED <i>[Signature]</i> M.T.P.C., NOIDA					
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CL	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			
1	2	3	4	5	6	7	8	9	D*	M	C	N	11
												** 10	

2.0	IN-PROCESS CONTROL												
2.1	Finished mattress	Dimension	B	Measurement	IS8183	IS:3144, IS:8183 / NTPC approved Data sheet	MTC			P	V	-	
3.0	FINAL INSPECTION												
3.1	Mattress	Bulk density	B	Lab test (R)	IS8183 Appendix 'C'	IS:3144, IS:8183 / NTPC approved Data sheet	MTC			P	W	W	Upto 400 deg.C - 100Kg/Cubic m & Above 400 deg.C 150Kg/Cubic metre @ Note - 4
3.2		Recovery after compression	B	(T)@	- do-	IS:8183 Appdx-A IS:8183/ NTPC approved Data sheet	MTC			P	W	W	
3.3		Shot content	B	(R)	-do-	- do-	MTC			P	W	W	
3.4a		Moisture content	B	(R)	-do-	IS:3144	MTC			P	W	W	
3.4 b		Moisture absorption	B	(T)@	-do-	IS 3144	MTC			P	W	W	@ Note - 4
3.5		Incombustibility	B	(T)@	-do-	-do -	MTC			P	W	W	@ Note - 4
		Incombustibility*	B	(T)@	-do-	-do-	MTC			P	W	W	*After 100 hours exposure to service temperature @ Note - 4
3.6		Thermal conductivity	B	(Ts) @	-do-	IS:3346	MTC			P	W	W	@ Note - 4
3.7		Sulphur content	B	(R)	-do-	IS:3144	MTC			P	W	W	

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			ITEM /EQUIPMENT : LRB WOOL MATTRESS-IS 8183 GROUP-3 - 1993 SUB-SYSTEM : STEAM GENERATOR AND AUX	QP NO.: CQP 1474 REV. NO.: 05 DATE :30-4-09 PAGE...3... OF...4.	SIGN. OF MFGR'S 		QP NO.: 0000-999-QVM-P-261 REV. NO.: 02 DATE : 06.05.09 PAGE...3... OF...4 VALID UPTO: 05.05.12	REVIEWED BY:  APPROVED BY: 					
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CL	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			11
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													** 10



4.0	Other Tests												
4.1		Resistance to Vibration	B	(T)@	IS 8183 Appendix 'C'	IS : 3144	IS:8183	MTC		P	W	W	@ Note - 4
4.2		Resistance to Jolting	B	(T)@	-do-	-do-	-do-	MTC		P	W	W	@ Note - 4
4.3		Heat resistance at 550 deg.C	B	(T)@	-do-	-do-	-do-	MTC		P	W	W	@ Note - 4
4.4		Alkalinity	B	(R)	-do-	IS:8183&Appd ix-B	IS:8183	MTC		P	W	W	
4.5		Chloride content (corrosives)	B	(R)	-do-	-do-	IS:8183	MTC		P	W	W	
5.0	Marking, preservation & packing	Identification	B	-do-	IS8183	IS: 8183	IS:8183	TC		P	W	W	
		Protection	M	Visual	IS:8183	Note-3				P	W	V	




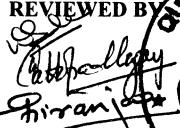
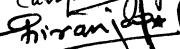
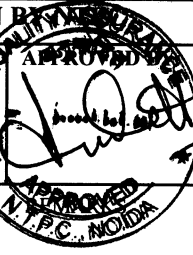

Legend : (R) : Routine Test (T)/(TS) : Type Test MTC : Manufacture's Test Cert.

Note - 1: List of NTPC approved vendors for procuring the item:

1. Mineral Wool Rock Fibres Ltd., Rajnandgaon
2. Lloyd Insulation Chennai, Works at: Rockwool Industries, Bhilai
3. Rockwool India Ltd., Medak, A.P.
4. Lapinus Rockwool Ltd., Gwalior

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 <b>MANUFACTURER'S NAME AND ADDRESS</b> BHEL : TIRUCHIRAPPALLI / APP SUB - CONTRACTOR		<b>REFERENCE QUALITY PLAN</b>							TO BE FILLED IN BY				
		<b>ITEM /EQUIPMENT :</b> LRB WOOL MATTRESS-IS 8183 GROUP-3 - 1993 SUB-SYSTEM : STEAM GENERATOR AND AUX		<b>QP NO.:</b> CQP 1474 <b>REV. NO.:</b> 05 <b>DATE :</b> 30-4-09 <b>PAGE...</b> 4... <b>OF...4.</b>		<b>SIGN. OF MFRG'S</b> 	<b>QP NO.:</b> 0000-999-QVM- P -261 <b>REV. NO.:</b> 02 <b>DATE :</b> 06-05-09 <b>PAGE...</b> 4... <b>OF...4</b> <b>VALID UPTO:</b> 05-05-12		<b>REVIEWED BY</b>   <b>APPROVED</b>  <b>APPROVED</b>  N.T.P.C., MOONDA				
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												** 10	

Note-2: The relevant IS Nos.& year of issue: IS : 8183-1993 ;  
 IS:3150-1982 ; IS:280-1978 ; IS:7887-1992 ; IS:1608-2005  
 IS:4826-1979 ; IS:6528-1995 ; IS:3144-1992 ; IS:3346-1980

Note-3: The mattresses shall be packed in polythene sheets.  
 Further it shall be put in polythene bonded hessian bag.  
 Mattresses of same thickness shall be packed in one bag.

Note-4: @ Type test marked as 'T' shall be done once in 3 months. ( BHEL Witness once in 3 months & NTPC witness once in 6 months. )  
 Type test marked as 'Ts' shall be done once in 12 months.  
 Thermal Conductivity test – NTPC will verify test report of jointly (BHEL-NTPC) sealed samples if tested at :  
 1. IIT Chennai  
 2. CBRI Roorkee

Note-5 :All review documents shall be submitted during witness / final inspection to BHEL- QC/ Customer Nominated agency

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3169



# NATIONAL THERMAL POWER CORPORATION LTD.

(ENGINEERING DIVISION)  
ENGINEERING OFFICE COMPLEX  
A-8A, SEC-24, NOIDA, U.P. 201301  
PH.: 011-8-4596276 FAX: 011-91-4410208

## TRANSMITTAL FOR DOCUMENTS

FROM : SR MANGER (QA)

REF. : 01/CQA/0000-SPL-

DATE : 12/06/2009

TO:   
Attn: Shri V. Sai Raman Sr. Mgr QA  
CC-RIO-Trichy

CC: DGM (QA-MECH)

SUB : Approved RQP

Please find enclosed following documents for necessary action at your end as indicated in purpose code

S. No.	Item	RQP No	Rev No	No. of Copies	Purpose code	Remarks
01	LRB WOOL MATTRESS-IS 8183 GROUP-3-1993	0000-999-QVM-P-261	02	1	11	

1. Approved in CAT-1
2. Approved in CAT-II With comments resubmit
3. Not APPROVED- CAT-III
4. Approved in CAT-IV(For information only)
5. Released for Fabrication/Construction

6. for your comments
7. Revised as per your comments
8. For your approval
9. for your information
10. As-built
11. Approved for Reference subject to approval of Endorsement sheet

Note: All previous revisions shall be destroyed/marked "superseded"

*Shri V. Sai Raman  
M/O  
for info necessary for the  
action of  
V. Sai Raman  
28/5/09*

SIGNATURE :

NAME :

O.P. NIRANJAN

FORMAT NO. : QS-01-DIV-P-02/F2-

ENGINEERING DIVISION

## **INTEGRITY PACT**

### **Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi – 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

### **and**

\_\_\_\_\_, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

### **Preamble**

The Principal intends to award, under laid-down organizational procedures, contract/s for

\_\_\_\_\_  
\_\_\_\_\_. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

## **Section 1 – Commitments of the Principal**

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
  - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
  - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

## **Section 2 – Commitments of the Bidder(s)/ Contractor(s)**

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
  - 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved

in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

### **Section 3 – Disqualification from tender process and exclusion from future contracts**

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors". framed by the Principal.

### **Section 4 – Compensation for Damages**

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

### **Section 5 – Previous Transgression**

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

## **Section 6 – Equal treatment of all Bidders/ Contractors/ Sub-contractors**

- 6.1 The Bidder(s)/ Contractor(s) undertake(s) to obtain from all subcontractors a commitment consistent with this Integrity Pact and report Compliance to the Principal. This commitment shall be taken only from those sub-contractors whose contract value is more than 20 % of Bidder's/ Contractor's contract value with the Principal. The Bidder(s)/ Contractor(s) shall continue to remain responsible for any default by his Sub-contractor(s).
- 6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

## **Section 7 – Criminal Charges against violating Bidders/ Contractors /Sub-contractors**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

## **Section 8 –Independent External Monitor(s)**

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- 8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or heal the situation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- 8.6 The Monitor will submit a written report to the CMD, BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- 8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.8 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC / PC Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the

Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8.9 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.

8.10 The word 'Monitor' would include both singular and plural.

### **Section 9 – Pact Duration**

9.1 This Pact begins and shall be binding on and from the submission of bid(s) by bidder(s). It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.

9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

### **Section 10 – Other Provisions**

10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

10.5 Only those bidders/ contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

-----

-----

For & On behalf of the Principal

For & On behalf of the Bidder/ Contractor

(Office Seal)

(Office Seal)

Place-----

Date-----

Witness: \_\_\_\_\_

Witness: \_\_\_\_\_

(Name & Address) \_\_\_\_\_

(Name & Address) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**BHEL / Trichy  
MM / BOI**

Ref : RC-Wool

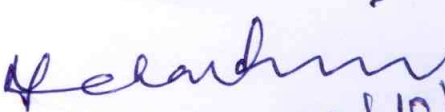
Dt 12.10.13

**SPECIAL CONDITIONS**


1. This tender is for the supply of LRB Wool as per Enq. Sizes and quantities are mentioned in Annexure – 1 attached to this enquiry.
2. The vendor shall have adequate experience as per supplier registration form in manufacturing and supply of LRB Wool.
3. Vendor shall indicate in their offer clearly the monthly tonnage that can be spared against this requirement and also their total manufacturing capacity in MT / Month. Vendor also have to send an intergrity pact as per format enclosed as annexure.
4. The tender shall be in two parts. One part consisting of commercial and technical conditions and other with price details. Techno-commercial bid and price bid are to be submitted in separate sealed covers. In addition to technical and commercial conditions, vendors who are not registered with BHEL Trichy, have to submit the filled in "supplier registration Forms" along with the technical bid. ***New vendors may download vendor registration forms from BHEL web site in [www.bhel.com](http://www.bhel.com) and submit all relevant data for formal registration.*** Both these covers are to be put in a single cover duly super scribing the Enquiry Number. The technical and commercial bid will be opened on the due date and based on the acceptance of techno-commercial bid and vendor evaluation, the price bid/RA of the qualified vendors will be opened on a suitable date with due intimation

Following will be the criteria for vendors to qualify:

- a) Vendor should have been approved by BHEL / Trichy for this item.  
(OR)
- b) Vendor should submit the following documents for considering them for approval and evaluation of offer.
  - i. Duly filled-in supplier registration forms
  - ii. Availability of minimum manufacturing, handling, testing and measuring facilities as detailed in the Supplier Registration Form
  - iii. Qualifying to our techno commercial requirements of the enquiry.

  
12/10/13

- iv. PO's & delivery certificate for having manufactured and supplied a minimum of 500 MT in a single order to any power plant in the recent past. (Failing to this, the offer will not be considered for this enquiry. However, we shall register those vendors for future enquiries after spot assessment).
5. BHEL reserves the right to increase or decrease the tendered quantity.
6. BHEL reserves the right to negotiate with L1 vendor and L1 rate will be counter offered to all other vendors restricting to 8 qualified vendors. Rate contract will be concluded for 24 months form the date of Rate Contract. The price should be firm till the completion of the contract. No PVC is acceptable. Original L1 and L2 vendor will be given preference up to 20% and 15% of the total enquired quantity in terms of Tons. Rest of the quantity will be distributed to remaining vendors, who accepts for counter offering rates.
7. BHEL reserves the right to re-float the tender opened, if L1 price is not the lowest acceptable price to BHEL .
8. Vendors have to submit their confirmation to the commercial Terms and Special Terms & Conditions attached.
9. BHEL's standard LD condition shall be accepted.
10. Payment term 100% direct in 45 days against site Acknowledgement.

  
Engineer/MM/BOI 12/10/13

### **General conditions to RC**

1. The projects which are covered in the tender will be ordered at the time of finalization of rate contract as per their eligibility among the Rate contract vendors.
2. Distribution shall be restricted to a maximum of 8 vendors.
3. If the same size on single project is more than 100MT , the same may be ordered on more than one vendor.
4. Vendor shall deliver minimum of 300MT/Month, and supply shall start within 30 days from the date of clearance for a particular project.
5. Minimum 1/3<sup>rd</sup> of clearance quantity subjected to a minimum of 100 MT has to be supplied within 45 days from the date of dispatch clearance..
6. In case vendor is not able to fulfill the above condition, that quantity shall be diverted to other vendors.
7. Vendor, who receives order for diverted quantity, shall necessarily start supply within 15 days from the date of order.
8. Future requirements if any shall be ordered using the same RC. Distribution shall be as per the proportion indicated in the RC.
9. Contract period is for 18 months for ordering, and further 6 months for supply.
10. For projects where customer approved vendors are involved, distribution shall be among the Customer approved vendors according to their ranking position.

*H. Chaudhri*  
12/10/13.

Annexure 1-Rate Contract terms and conditions for wool Mattress		
Sl no	Terms	Vendor confirmation
1	Offers to be submitted in two part bid system	
2	The Quantity indicated in the tender is only tentative and BHEL reserves the right to increase or decrease the tender quantity and split the tendered quantity among more than one vendor and place orders accordingly in any proportion, based on project requirement and vendor capacity	
3	Compliance of specification as per Drg no 4-33-021-00833/05 & 4-33-021-00834/04 are to be confirmed	
4	Quality Plan for NON NTPC projects - CQP-4612/31.03.12 - to be confirmed -	
5	Rate /SQM for LRB Wool mattresses for thickness 40,50,60 with bulk densities 100KG/CUM. & 150 KG/CUM with wirenetting GI and SS are to be quoted as per Enquiry .	
6	L1 will be finalized for each item no in the Enq considering Ex-works + freight	
7	Site details and quantities are enclosed in annexure 2 .	
8	Ordering shall be 20% on L1 , and 15 % on L2 , Subject to sparing capacity , performance , and customer approval.Balance quantity will be equally distributed to the rest of the suppliers , who accepts for L1 counter offered rate .	
9	Counter offering will be for each item in the Enquiry	
10	Confirmation on capacity per month which can be spared to BHEL to be indicated along with lead time for delivery. Also every month vendor should inform the capacity which can be spared for the subsequent two months .	
11	BHEL require confirmation to release order on FOR Site basis	

*Handwritten signature*  
12/10/13

12	Data Sheet to be Submitted for each project for Customer /NTPC approval.	
13	Compliance of RQP to be Complied for NTPC projects as per RQP No . 0000-999-QVM-P-261 enclosed.	
14	Firm Price Shall be quoted for a period of 24 months from the date of conclusion of Rate Contract.	
15	Taxes and Duties shall be Clearly indicated like ED ,Cess ,CST Octroi and other Statutory levies with documentary proof.	
16	Inspection will be carried out by eaither BHEL/BHEL approved Authorised agency or Customer depending on contract conditions	
17	Material shall be guaranteed against all manufacturing defects , bad workman ship. For a period of 18 Months from the date of despatch . If defect is noticed during the period the defective materials shall be replaced at free cost immediately.	
18	Liquidated Damages shall be applicable at the rate of 0.5% of the value of the orders delayed for week or pert there of , subjected to a maximum of 15%.	
19	Risk Purchase : Purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the Risk and cost of the supplier , if the party fails to deliver goods in a stipulated time( fails to meet the site requirement ) . If there is any extra cost implication on account of risk purchahse the same will be recovered from the original supplier	
20	If L1 vendor fails to meet our requirement due to poor performance or any other reason , the proportion of 20% of enquired quantity will not be guaranteed .	
21	Payment term 100% direct with in 45 days against site acknowledgement	
22	Orders will not be released on vendors wherever VAT is applicable	
23	Marking details on packing shall be legible in bold letters , also vendor name shall be printed on the packing covers. Material description along with type of netting shall be clearly mentioned.	

*[Handwritten Signature]*  
12/10/13.

**Annexure -2 -RC Quantities Size wise**

Sl no	Project	Qty -MT	100KG/CUM Density GI Wireneeting -SQM												150 KG/CUM GI		150 KG/CUM SS	
			40 MM		50 MM GI		60 MM GI		40 MM GI		50 MM GI		60 MM GI		Wirenett -SQM		Wirenett -SQM	
			GI	O/S	O/S	O/S	B/S	B/S	B/S	B/S	B/S	B/S	O/W	O/W	50 mm	60 mm	50 mm	60 mm
1	Nabinagar 3	804	25	20720	21880	3300	12130	8195										
2	Nabinagar 4		25	20720	21880	3300	12130	8195										
3	BARA 2	1203		64305	6800	24435	11950	895	44430	13800						385	11540	
4	BARA 3	1203		64305	6800	24435	11950	895	44430	13800						385	11540	
5	Mouda 3	1204		62980	5560	30990	12850	185	43650	12910						555	11200	
6	Mouda 4	1204		62980	5560	30990	12850	185	43650	12910						555	11200	
7	Ravalaseema	612	12975	75610	21250													
8	Vindhyachal	775		41148	43763	18385	28789	40										
9	Lalitpur 1	1203		64305	6800	24435	11950	895	44430	13800						385	11540	
10	Lalitpur 2	1203		64305	6800	24435	11950	895	44430	13800						385	11540	
11	Lalitpur 3	1203		64305	6800	24435	11950	895	44430	13800						385	11540	
12	Bellary	1203		64305	6800	24435	11950	895	44430	13800						385	11540	
13	Yermarus 1	1203		64305	6800	24435	11950	895	44430	13800						385	11540	
14	Yermarus 2	1203		64305	6800	24435	11950	895	44430	13800						385	11540	
15	Nabinagar 1-Sup	1204		62980	5560	30990	12850	185	43650	12910						555	11200	
16	Nabinagar 2-Sup	1204		62980	5560	30990	12850	185	43650	12910						555	11200	
17	Nabinagar 3-Sup	1204		62980	5560	30990	12850	185	43650	12910						555	11200	
18	Gadarwara 1	1204		62980	5560	30990	12850	185	43650	12910						555	11200	
19	Gadarwara 2	1204		62980	5560	30990	12850	185	43650	12910						555	11200	
20	Sagardhigi-4	756		29145	48040		35655	9665										
21	SCCL Pegadalli -1	738		80295	8620	23005	20875	20										
22	SCCL Pegadalli -2	738		80295	8620	23005	20875	20										
23	Obra R&M 10,11,12&13	596	33000	34200	40120													
Total		23071	46025	1337433	307493	483405	316004	34590	660990	200770						6965	170720	
Our Wt KG /SQM			4.5	5.5	6.5	5	6	7	8	9.5						8.5	10	
Wt in -MT			207.113	7355.882	1998.705	2417.025	1896.024	242.13	5287.92	1907.315						59.2025	1707.2	23078.52

  
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