

BHARAT HEAVY ELECTRICALS LIMITED ,
Heavy Electrical Equipment Plant
Ranipur, Haridwar – 249 403 (UK), India



BHEL Tender Enquiry No. B/4011/2024/0640/V1 for the requirement of LP BYPASS SYSTEM WITH SPARES for Raigarh project on GeM Portal

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Sachin Gupta (Engineer/PPX-BOI)
Email: gupta.sachin@bhel.in
Ph. 01334-281690

Pankaj Kumar (Manager/ PPX-BOI)
Email: ssbgpankaj@bhel.in
Ph. 01334- 281690

PRE-QUALIFICATION REQUIREMENTS FOR "LP BYPASS SYSTEM"

Clause No.	Pre-Qualification Requirements	Vendor's Response
1.	<p>a. The Vendor to confirm that they have previously designed, manufactured, tested, supplied, erected & commissioned LP Bypass System (consisting of hydraulically actuated LP Bypass Valve along with Water Injection Valve and Hydraulic Power Supply Unit (HPSU)) for 660MW or higher capacity steam turbine unit. Further, design temperature for LP Bypass Valve should be 593° C or above.</p> <p>b. The vendor to confirm that the equipment(s) as per are Clause No. 1.a above are in successful operation in at least one (1) plant for a period not less than one (1) year as on date of issuance of enquiry.</p> <p>c. The vendor to submit experience details as per Annexure-A (copy enclosed) of supplied LPBP system complying the requirements mentioned at Clause No. 1.a & 1.b. above. Further the date of issue of experience certificate shall not be prior to 01.01.2012</p> <p>d. The vendor to confirm that they must have previously supplied & commissioned the required instrumentation i.e. Transmitters, switches and gauges compatible with HPSU/EHA's of LPBP system for steam Turbine applications.</p>	<p>(a) Yes/No</p> <p>(b) Yes/No</p> <p>(c) Yes/No</p> <p>(d) Yes/No</p>
2.	<p>a. A Joint Venture (JV)/ Subsidiary Company formed for manufacturing and supply of equipment(s) as listed at clause no. 1 above in India, should have a valid collaboration or licensing agreement for design, engineering, manufacturing of such equipment(s) in India with a qualified equipment manufacturer who meets the requirements stipulated at clause no. 1 above (or the technology provider of the qualified equipment manufacturer). Further, in such a case, such qualified equipment manufacturers should have, directly or indirectly through its holding company/ subsidiary company, at least 26% equity participation in the Indian Joint Venture Company/ Subsidiary Company, which shall be maintained for a lock-in period of seven (7) years from the date of issuance of enquiry.</p> <p style="text-align: center;">OR</p> <p>Indian Holding Company, of the Qualified Equipment Manufacturer who meets the requirements stipulated at clause no. 1.a above for the respective equipment(s), should have a valid collaboration or licensing agreement for design, engineering, manufacturing of such equipment(s) in India with the qualified equipment manufacturer. Further, in such a case, such Indian Holding company shall maintain at least 51 % equity participation in the Qualified Equipment manufacturing company either directly or indirectly, which shall be maintained for a lock-in period of seven (7) years from the date of issuance of enquiry.</p> <p>b. In case the qualification is sought as per clause 2.a, The details of vendor (JV / Subsidiary Company/ Indian Holding Company) shall be submitted as per Annexure-B & Experience details of vendor or collaborator (i.e. manufacturer of proven equipment meeting requirements as per clause-1.a. & 1.b.) shall be submitted as per clause-1.c.</p> <p>c. In addition, the vendor (JV / Subsidiary Company/ Indian Holding Company), shall furnish DJU in which executant of the DJU shall be jointly and severally liable for the successful performance of the equipment. The DJU shall be submitted prior to the placement of order.</p>	<p>(a) Yes/No</p> <p>(b) Yes/No</p> <p>(c) Yes/No</p>
3.	<p>In case the vendor qualifies as per clause-2 above: -</p> <p>a. The vendor should have established manufacturing and testing facilities at its works as per Collaborator/licenser's design, manufacturing and quality control system for such equipment duly certified by the Collaborator/licensor as on date of issuance of enquiry.</p> <p>b. Further for subject project, the Collaborator/Licenser shall provide all design, design calculation, manufacturing drawings and must provide technical and quality surveillance assistance and supervision during manufacturing, erection, testing & commissioning of equipment. Evidence/Confirmation to be furnished by the vendor.</p> <p>c. The Vendor to confirm to provide all design documents for offered equipment against this enquiry duly authored/vetted by its collaborator for review and approval by BHEL after placement of purchase order.</p> <p>d. The vendor to confirm that EHA, HPSU, Casting and Forgings shall be procured from its collaborator approved sub vendor only. Collaborator approved sub vendor list is to be furnished to BHEL.</p>	<p>(a) Yes/No</p> <p>(b) Yes/No</p> <p>(c) Yes/No</p> <p>(d) Yes/No</p>

Signature of authorized signatory.....

Notes: -

- Against vendor's replies, BHEL reserves the right to ask for more information/documents/clarifications. Vendor's offer shall not be considered if vendor fails to furnish the document/information/clarifications as mentioned above or vendor doesn't meet the above acceptance criteria.

ANNEXURE-A

Experience Details for LP Bypass System: -

S. No.	Details	BHEL Requirement	Vendor's Response
1.	Name of the station and its Location		
2.	Client name and its address, Fax no. & Tel. No.		
3.	Name, designation, e-mail ID & Mobile No. of the responsible person in client's organization		
4.	Purchase Order No. & Date		
5.	Capacity/Rating in MW of individual Steam Turbine Unit	≥ 660 MW	
6.	No. of Units		
7.	Date of Commissioning of LPBP system		
8.	Date of Commencement of Successful Operation		
9.	Years of successful operation as on date of issuance of enquiry	1 years (Min.)	
10.	Mandatory enclosures: - Certificate of satisfactory operation from their client/end user. Date of issue of experience certificate shall not be prior to 01.01.2012. Further, experience certificate shall contain at least the following information: i. Name of supplier ii. Name of power plant & Unit rating (in MW) in which LPBP system is installed iii. Design flow, pressure & temperature of LPBP valve iv. Operating flow, pressure & temperature of LPBP valve v. Performance status of LPBP system vi. Date of commissioning of LPBP system/Power plant start date/ plant synchronization date vii. Date of issuance of certificate		
11.	LPBP system designed & manufactured by		
12.	Control system designed & manufactured by		
13.	Design steam temp. for LPBP Valve	≥ 593 ⁰ C	
14.	Design steam flow & pressure		
15.	No. of LP Bypass Valves per unit		
16.	Type of LPBP Valve (Single Stem/Double Stem)/ size		
17.	Body material of LPBP Valve		
18.	Type of actuator of LPBP Valve	Hydraulic	
19.	Make & model no. of Actuator of LPBP Valve		
20.	Make & model no. of Servo/Proportional Valve		
21.	Make of Hydraulic Power Supply Unit (HPSU)		
22.	Operating Hydraulic Pressure		
23.	Working Fluid (Mineral Oil/Fire Resistant Fluid)		
24.	Design Spray Water Flow (T/hr)		
25.	Spray Water Press/Temp. (ata/deg.)		
26.	Type of Actuator of water injection valve		

Information against Sl. No.1-14 are to be mandatorily provided by the vendors. Further, the vendor to submit all supporting documents like datasheet & drawing of supplied LPBP Valve, Water Injection Valve and schematic drawings of actuators & HPSU along with their functional write-up for BHEL information.

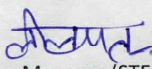
Signature of authorized signatory.....

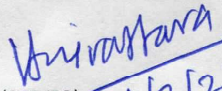
Annexure-B


Detail of subsidiary/JV company proposed for manufacturing of LPBP System as per clause no. 3 of Pre-qualification requirement			
SL. NO.	Item Description	BHEL Requirement	Applicable data
1	Name and address with telephone no. of the Indian JV /subsidiary company/ Indian holding Company proposed for manufacturing of LP Bypass system.		
2	Name and address with telephone no. of the promoter(s) of the JV/subsidiary company/ Indian holding company.		
3	% of the equity held by the promoter(s).		
4	Equity lock in period	Seven (7) years from the date of issuance of enquiry.	
5	Name and address with telephone no. of the promoter of JV /subsidiary company/ Indian holding Company formed at sl. no. 1 above who meets the requirement of clause 1 of Pre-qualification requirement (PQR).		
6	M/s. (JV/subsidiary company/ Indian holding Company) has a collaboration or valid licensing agreement with M/s..... (subsidiary/JV promoter) for design, Engineering, manufacturing & supply of LP Bypass system in India.	The vendor to furnish valid collaboration/licensing agreement which should be in existence before the date of issuance of enquiry & shall be maintained for a lock-in period of seven (7) years from the date of issuance of enquiry.	
7	If Equity held by the qualified equipment manufacturer (as per clause 2.a of PQR).		
i	Whether equity held directly or indirectly?		
ii	If indirectly, then furnish the relationship tree along with all relevant subsidiaries and holding company.		
8	The vendor to furnish commitment for lock in period as per requirement.	Confirmation to be provided by the vendor	

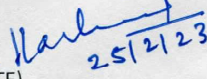
The vendor to submit documentary evidence in support of above requirements.

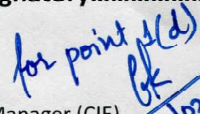
Signature of authorized signatory.....

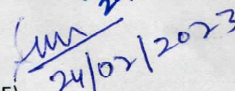

Dy. Manager (STE-TG) 24.02.23

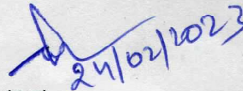

DGM (STE-TG) 24/2/23.


AGM (STE-TG & TM) 24/02/2023


AGM & HOD (STE) 25/2/23


Dy. Manager (CIE) 24/02.2023


SDGM (CIE) 24/02/2023


AGM (CIE) 24/02/2023

Purchase Indent No. 20240640 dtd 22.05.2024

1. Total scope of supply against 2x800 MW Raigarh project shall be as per the details given below:

SL. No.	Description	Qty per TG Unit	Total Qty for 02 units
1.	LP Bypass Valve with EHA & Desuperheater	02 Set	04 Set
2.	Hydraulic Power Supply Unit (HPSU)	01 Set	02Set
3.	Water Injection Control Valve with Hydraulic Actuator	02 Nos.	04 Nos.
4.	Flow Nozzle for WIV	02 Nos.	04 Nos.
5.	Dump Tube	02 No.	04 No.
6.	Steam Blowing devices for LPBP valves (Refer Point No.4)	02 Set	02 Set
7.	Hydraulic test devices for LPBP valve	02 Set	02 Set
8.	Assembly & disassembly device	01 Set	01 Set
9.	Flushing Device for Control Fluid System	01 Set	01 Set
10.	Filling and gauging device for hydraulic accumulator	01 No.	01 No.
11.	Motorized control fluid pump unit for filling of fluid in CF Tank for HPSU	01 No.	01 No.
12.	Special tools & tackles as per clause-8.0 of ST47050 (Refer Point No.3)	01 set	01set
13.	Mandatory spares as per BHEL Drg No.3-12300-32100 (Refer Point No.-5)		01 Set
14.	Commissioning Spares as BHEL Drg No.3-12300-56005	01 Set	02 Set
15.	Servo Valve (as spare)	01 No. each type	
16.	Solenoid Valve (as spare)	01 No. each type & module	
17.	Supervision and Training to customer during erection and commissioning at site for each TG set		

2. Following BHEL Drawings/specification may be referred:

- Drg. No.2-12300-32000 Rev.00 (Sh.01 & Sh.02) for 'LP Bypass System'.
- LPBP-TG ADDENDUM
- LPBP addendum for CIE system
- ST47050 Rev.02.
- ST22007 Rev.06.
- Drg. No.3-12300-32001 Rev.00 for 'Input/Process data for LPBP valve and actuators.
- Drg. No.3-12300-32002 Rev.00 for 'Arrangement of LPBP valve along with associated equipment'.
- Drg. No.2-12300-32003 Rev.00 for 'Water Injection valve with Actuator'.
- Drg. No.1-12300-32004 Rev.00 for 'System Diagram Hydraulic Supply Unit'.
- Drg. No.3-12300-56005 Rev.03 for 'Commissioning spare parts for LP Bypass System'.
- Drg. No.3-13360-89501 Rev.00 for 'Flow Nozzle for W.I.V.'
- Drg. No.3-12300-32100 Rev. 00 for 'Mandatory spares-LP Bypass System'.
- Drg. No.0-12321-30000 Rev.00 for 'Suspension of LP Bypass valve'.
- Drg. No.1-12300-56008 Rev. 00 for 'Recommended Spares'.
- Annexure-II (Check list to be submitted along with the offer).
- Annexure-III Rev.04 (Master list of documents).

- In case special tools & tackles are not offered, these will have to be supplied free of cost, if required, at any stage of the project in future.
- Additional 02 set of Packing/Gaskets applicable for Steam Blowing devices shall also be supplied by the vendor. The same shall be utilized against TG Unit-2.
- Mandatory spares shall be packed in a separate Box & shall be painted with Green colour for easy identification at site.

BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS**ITEM NAME: LP BYPASS SYSTEM with its spares****PROJECTS: 2X800 MW RAIGARH PH-II.****1. SCOPE OF ENQUIRY:**

E-bids on GeM portal are invited from bidders for the supply of **LP BYPASS SYSTEM with its spares** for 2X800 MW RAIGARH project as per requirement mentioned below:

Sl. No.	Material Code & Item Description	Total Quantity	LOT Quantity & Delivery schedule
1	W90312300590 DRG: 21230032000 REV:00 LPBP VALVE WITH EHA, DESUPERHEATER,HPSU,WATER INJECTION VALVE,FLOW NOZZLE AND DUMPTUBE SPEC: ST47050 REV: 00	02 SETS.	Lot-1: 01 ST, 22.12.2025 (Raigarh unit-1) Lot-2:, 01 ST, 22.04.2026 (Raigarh unit-2)
2	W99312301993 DRG: 31230032100 REV:00 MANDATORY SPARE FOR LP BYPASS SYSTEM	01 SET.	01 ST-, 22.04.2026 (Raigarh mandatory spares)

2. Project Detail:

Project Name	ITEMS TO BE DISPATCHED DIRECTLY TO 2X800 MW RAIGARH PH-II PROJECT
Consignee Address	Adani Power Limited, Village: Chhote Bhandar, PO: Bade Bhandar, Tehsil: Pussore Raigarh 496100, Chhattisgarh

3. 3. EARNEST MONEY DEPOSIT (EMD):

All interested vendors must submit their e-bid along with the proof of submission of following Earnest Money Deposit (EMD) details in GeM portal along with offer EMD is applicable to all the bidders irrespective of PMD bidders/GeM provisions.

Details	Amount In INR	Type
EMD	INR 40,00,000/- (Forty lakhs only)	Refundable

3.1: Modes of deposit: The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender opening).
- (ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer).
- (iii) Fixed Deposit Receipt (FDR).
- (iv) Bank Guarantee from any of the Scheduled Banks.
- (v) Insurance Surety Bonds.

(vi) The EMD shall remain valid for a period of 45 (forty-five) days beyond the final bid validity period as asked in NIT.

For E-Payment, the RTGS details are as mentioned below:

Bank Details	SWIFT Details of bank	Contact Details of Banker
STATE BANK OF INDIA RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA PIN CODE: 249403	SWIFT NO : SBININBB225 CC ACCOUNT NO : 10667995458 IFSC CODE : SBIN0000586	Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512

3.2: Exemption of EMD

As per GeM GTC following are the exempted category of EMD/Bid Security.

- a. Micro and Small Enterprises (MSEs) who are holding valid Udyam Registration and are manufacturer of the offered Productor Service (Primary Product / Service - in case of bunch bid with total value wise evaluation) and give specific confirmation to this effect at the time of bid submission and claim EMD exemption and whose credentials are validated online through Udyam Registration website of Ministry of MSME and also through supporting document uploaded during bidding process and validated by the Buyer. State Government Buyers may, however, choose to exempt only MSEs from the State of Bid Inviting Authority by specifying the same in ATC of the Bid. In case no such ATC is included, eligible MSEs of all states are exempted.
- b. Start-ups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT), holding valid Start-up Recognition Certificate which is to be uploaded while bidding and claiming EMD exemption and to be validated by the Buyer. Bidder to ensure that turnover for any of the financial years has not exceeded beyond limits prescribed in the certificate / Start Up scheme of DPIIT.
- c. KVIC, ACASH, WDO, Coir Board, TRIFED and Kendriya Bhandar.
- d. Sellers who have got their credentials verified through the process of Vendor Assessment by Vendor Assessment Agencies for the Primary Product / Primary Service for which Bid / RA has been invited and holding valid Vendor Assessment or Vendor Assessment Exemption Report / confirmation (Seller to upload VA report / VAE confirmation to be validated by the Buyer).
- e. Sellers / Service Provider having annual turnover of INR 500 Crore or more, at least in one of the past three completed financial year(s)
- f. Sellers / Service Providers holding valid BIS License for the Primary Product Category whose credentials are validated through BIS database and through uploaded supporting documents to be validated by the buyer.
- g. Central / State PSUs.
- h. In addition to above GeM conditions, offers directly from the manufacturer or their authorized agents are also exempted from submission of EMD.

3.3: Forfeiture of EMD:

- a. A bidder's EMD will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender.
- b. EMD by the tenderer to be withheld in case any action on the bidder is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines.

- c. Bid securities of the unsuccessful bidders shall be returned to them after expiry of the final bid validity period / latest by the 30th day after the award of the contract. Since it is a two-part bidding, bid securities of unsuccessful bidders during first stage i.e. technical evaluation shall be returned within 30 days of declaration of result of first stage i.e. technical evaluation.
- d. Bid security/EMD of the successful bidder shall be returned only on conclusion of the order and receipt of a Performance Security/Performance Bank Guarantee of 10% of contract value (excluding taxes) from contractor / Supplier.
- e. EMD/PBG/PS shall not carry any interest.

4. PERFORMANCE SECURITY/PERFORMANCE BANK GUARANTEE:

Successful bidder to submit Performance Security/Performance Bank Guarantee of 5% of the contract Value (Excluding Taxes). The Performance Security/PBG shall be submitted within 30 days of notification of the award of Contract and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.

PS/PBG shall be returned to the contractor without interest, after the contractor duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the warranty under the contract. The Performance Security/PBG shall not carry any interest.

4.1 Modes of deposit of PS/ PBG: Performance Security/Performance Bank Guarantee shall be furnished in the following forms:

- I. Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of BHEL.
- II. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- III. Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).
- IV. Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).
- V. Insurance Surety Bond.

(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

4.2: Forfeiture of Performance Security/Performance Bank Guarantee:

The Performance Security/ Performance Bank Guarantee will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.

5.BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS IN ADDITION TO GTC

Sl. No.	Terms	Description	Supplier confirmation
1.	Documents Checklist:	Please submit signed and stamped copy of your offer on each page along with following documents; <ul style="list-style-type: none"> Buyer Specific T&C. 	

		<ul style="list-style-type: none"> • Technical PQR & its supportive document. • Technical drawing & purchase specification. • Quality plan. • Integrity Pact • Certificate/self-certification for minimum local content as per PPP-MII order. • Replica of price bid schedule without prices with part-I offer. <p>Please note that technical documents shall be shared against submission of FCA (FCA copy enclosed) .</p>	
2.	Compliance of GTC on GeM	In addition to the terms & conditions mentioned in below table, General Terms and Conditions on GeM 4.0 (Version 1.16) Dt. 17th July 2024 or it's latest revision (if revised prior to issuance of enquiry) shall be applicable against this enquiry. Kindly confirm that the same is acceptable to you for this tender..	
3.	Pre-Qualification Requirements	The Pre-Qualification Requirements have been compiled. All the bidders should ensure submission of complete details and documents as called for in these requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.	
4.	Customer approval requirement	<p>End User approval is mandatory requirement for considering your offer in this tender. Kindly submit your credentials with all supporting documents along with your offer for take up your approval with End User.</p> <p>Price bid of the offer of only those bidders who will be approved by the End User will be considered for price bid opening.</p>	
5.	Make in India Clause	<p>"For this procurement, the local content to categorize a supplier as a Class-I Local Supplier / Class-II Local Supplier/ Non-Local Supplier and purchase preference to Class-I Local Supplier, is as defined in Public Procurement (Preference to Make in India), Order-2017 Ref. No. P-45021/2/2017-PP (BE-II) dtd. 04/06/2020 issued by DPIIT. In case of subsequent orders issued, by the nodal ministry, changing the definition of local content for the items of this NIT, but before opening of Part-II bids against this NIT</p> <p>As per Make in India Order, only Class-1 and Class-2 local supplies are eligible to bid in this tender enquiry.</p> <p>For this eligibility criteria, bidders are required to submit certificate of Minimum local content in attached Make In India certificate.</p> <p>The Certificate shall be from the Cost Auditor / CA of the Company.</p>	
6.	Compliance of Rule 144 (xi) of GFR 2017	Compliance of Restrictions under Rule 144 (xi) of GFR 2017 shall be as per GeM.	
7.	Bid validity/ Validity of offer	<p>Please note that validity of the offer shall be 180 days from the date opening of Techno-Commercial bid (Part-I bid) on GeM portal.</p> <p>Offer of bidder's having validity less than 180 days shall liable to reject. Please confirm.</p>	
		The required validity is considering that offer is complete & clear w.r.t. PQR and all techno-commercial conditions. Vendors need to extend their offer validity for the time taken by them in responding BHEL's comments/clarification sought during techno-commercial scrutiny of the offer. In case regret by any bidder for such validity extension, their offer shall liable to be reject. Please confirm.	
8.	Prices/Basis of Quotation	Prices: The offered prices of the items shall remain firm and fixed till execution of the project.	

		Ensure to quote your price inclusive of Freight & GST for Total quantity on GeM portal.									
		Transit Insurance would be arranged by BHEL. Please quote your prices accordingly.									
		The prices are to be quoted on Ex-Works with freight Pre-paid up to project destination basis. The goods must be dispatched through any Bank approved transporters having their branch at Haridwar. The names and addresses of transporters approved by IBA as well as BHEL are posted at our website www.bhelhwr.co.in. Please note that, if you dispatch the material by any BHEL un-approved transporter then you will necessarily be required to furnish the MRC (Material Receipt Certificate) from respective Project Site for processing of your invoice. No demurrage charges would be borne by BHEL.									
9.	Evaluation criteria	Evaluation shall be done project wise on total landed cost upto respective BHEL Project Site considering all material codes and services together.									
10.	Evaluation Currency	The evaluation currency for this tender shall be INR.									
11.	Payment terms:	<p>For Material portion- The payment term shall be done after issue of consignee receipt-cum acceptance certificate (CRAC)/confirmation of material receipt at site and submission of bill as per the below details:</p> <table><tr><th>Type of Bidder</th><th>Payment Terms (Number of Days)</th></tr><tr><td>Micro & Small Enterprises (MSEs)</td><td>45 days</td></tr><tr><td>Medium Enterprises</td><td>60 days</td></tr><tr><td>Non MSME</td><td>90 days</td></tr></table> <p>Subject to submission of non-discrepant documents.</p> <p>ii. For Supervision during E&C & Training at project site- Successfully commissioning Certificate of equipment /confirmation of Successfully commissioning the equipment at project site through site/commercial & invoice directly to BHEL..</p>	Type of Bidder	Payment Terms (Number of Days)	Micro & Small Enterprises (MSEs)	45 days	Medium Enterprises	60 days	Non MSME	90 days	
Type of Bidder	Payment Terms (Number of Days)										
Micro & Small Enterprises (MSEs)	45 days										
Medium Enterprises	60 days										
Non MSME	90 days										
12.	GeM charges	GeM charges if any shall be either side only i.e. buyer's GeM charges shall be in buyer's account and seller's GeM charges shall be on seller's account. Please confirm.									
13.	Contract execution	Bidder's are advised to read GeM related query & clarification carefully on GeM portal. Order shall be executed through GeM.									
14.	Delivery Period	<p>Please quote your lot wise delivery completion period in line with BHEL project site requirement as mentioned in para "1" of this ATC in number of weeks/months from the date of Purchase Order.</p> <p>For Mandatory spares (material code W99312301993) -Delivery mentioned in enquiry is indicative delivery. Actual delivery shall be taken up BHEL as per site requirement and clearance from customer, please confirm.</p>									
15.	Technical Requirement for Raigarh Project:	<p>Scope of supply & other special instructions have been mentioned in Annexure-I kindly submit your offer accordingly.</p> <p>Kindly ensure completeness of their offer & furnish the check list as per Annexure-II duly filled along with the offer.</p> <p>In case of order the vendor to furnish the documents as per the list of master documents (annexure-iii) within four weeks of the date of placement of P.O.</p> <p>THE vendor to include commissioning spares in their offer as per BHEL DRG. NO.3-12300-56005.</p> <p>IN the event of ordering the vendor shall furnish all the documents as per</p>									

		ANNEXURE-III (MDL), complying time schedule mentioned therein. further, BHEL approval on documents shall be given within 30 days subject to finalization of documents by vendor to the satisfaction of BHEL/end customer post all clarifications/comments	
		The document no. THE DOCUMENT "C&I ADDENDUM TO ST47050 REV02 (MAHAN)" is also a part of purchase specification and shall be complied BY bidder, kindly confirm.	
		Kindly furnish item wise price of each item referred IN BHEL DRAWING 31230032100.	
		THE vendor to provide 3D MODELS for the supplied equipment assemblies (having all the components included) complete with all connection points/interface for the purpose of 3d power plant layout to be done by BHEL as per customer specification requirements. the file format of 3d model shall be informed by BHEL and the same shall be subject to customer approval	
		In case of any conflict between stipulations in various portion of the specification, most stringent stipulation would be applicable for implementation by the vendor without any cost or delivery implication to BHEL. PL confirm.	
		Deviation, if any, whether major or minor, should be brought out very clearly on deviation sheet along with the offer. In the absence of any deviation, the offer shall be deemed to be in full conformity with the specification. Hidden deviation in the offer shall not be acceptable or binding on BHEL. PL note & confirm.	
		PAINTING of equipment shall be as per cl. no.-5.1 of BHEL DRG NO.21230032000 additionally, touch-up paint (5 % of total finish coat quantity) is also to be supplied, kindly confirm.	
		Drawings/Data sheets/documents & Quality plan as called for in the specifications/Drawings/Documents shall be submitted for approval to BHEL for BHEL/customer approval within 30 days of purchase order. Any delay in delivery on account of late submission of drawings shall be to vendors account. BHEL will arrange the approval of the drawings/data sheets/ documents within 30 days of their receipt provided those are complete in all respect. Any delay in documents submission/approval shall be on either side.	
		LPBP documents submitted by vendor for BHEL's approval shall also be subject to customer's approval. Therefore timely submission of the complete set of LPBP system documents must be ensured by the vendor.	
16.	Recommended Spares	Please furnish the itemwise priced list of recommended spares as per BHEL DRG. no.1-12300-56008 for our reference and future ordering along with main offer.	
17.	Supervision during Erection & Commissioning and Training	<p>The supplier to carry out the supervision work during E&C of the equipment at project site, kindly Confirm that following charges have been quoted separately in your offer :</p> <ol style="list-style-type: none"> 1. Per ManDay Charges for Training, Supervision during Erection & Commissioning (lump sum & inclusive of everything i.e. lodging, fooding, boarding etc.) 2. Per Visit Charges (to & fro to our site) for Training regarding design/construction features, operation & maintenance of the supplied equipments (Including C&I) to customer's/BHEL Engineers, Supervision during Erection & Commissioning. <p>A total period of 26 mandays (Inclusive of 02 days training) and 04 Visits will be taken for evaluation purpose for 02 TG Set. However payment will be made on actual number of days and visits involved in supervision of erection/ commissioning and training endorsed by project site.</p> <p>Please ensure that "Per Man Day" & "Per Visit" charges for Supervision during Erection & Commissioning and Training including every expense are quoted.</p>	
		Please note that the vendor should send a checklist to BHEL prior to deputation of	

		competent representative for Commissioning. BHEL will confirm the checklist prior to issuing Commissioning Call to the vendor. After receipt of checklist from BHEL, the vendor would send the competent representative within 15 days of confirmation of site readiness. <u>In case, any additional work is required which is beyond the scope/warranty/guarantee of the vendor, the work would be commenced only after signed agreements with site representative & the vendor.</u>	
		Kindly note that you have to make a visit of 02-03 days to project site at a suitable point of time during erection, to streamline all the erection & commissioning activities of your supplied equipments and to ensure completeness of all equipments/tools etc., which are required for commissioning of the equipments. This visit is included in the above mentioned 02 visits to be taken for evaluation	
		Please confirm that the charges quoted for Supervision during Erection & Commissioning and Training shall be inclusive of applicable GST .	
18.	SPECIAL INSTRUCTION	<p>Please note that as per BHEL's Policy, we cannot allow Price impact for the requirement / scope of supply, which is a part of specifications of our tender enquiry. Hence please read all specification / documents thoroughly and submit your offer as per specifications of tender enquiry.</p> <p>In case of any confusion / un-clarity on any of the clause / requirement of specification, please clarify the same from BHEL before submission of offer.</p> <p>No deviation & request regarding un-clarity / contradictory conditions / ambiguity of specifications would be entertained after opening of techno-commercial offers. Further no price impact would be allowed for the requirement which is already part of the specifications of the tender enquiry, after opening of techno-commercial offers. Please note and confirm.</p>	
19.	Packing and Storage	<p>Kindly confirm the following packing requirements;</p> <ul style="list-style-type: none"> Storage & handling instructions of the equipments shall be furnished by the vendor separately and 2 copies of the same shall be supplied to site along with main equipment. Mandatory spares shall be packed in a separate box & shall be painted with green colour for easy identification at site. 	
20.	Special Instructions:-	<p>For Raigarh Projects: - Kindly confirm the following dispatch instructions:</p> <ul style="list-style-type: none"> 8 DIGIT GST HSN code of item to be provided & same is required to mentioned in PO for Raigarh PROJECT. Documents (GR/LR, PACKING list, test certificates) are required in original. Material is to be despatched on door delivery basis 	
21.	Liquidated Damages (LD) for late delivery	<p>Liquidated Damages for late delivery w.r.t to contractual delivery shall be applicable @ 0.5% of the "lot-wise total order value" per week of delay or part thereof subject to a maximum of 10% of the "lot-wise total order value".. Kindly confirm.</p>	
		The date of LR//GR would be treated as the date of delivery for penalty purposes.	
22.	MDCC clause	<p>Please note that, material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) end customer. For issue of MDCC, vendors are required to submit all test certificates (TC) and inspection report of third party (IR) to BHEL. After review & acceptance of the quality document, BHEL will forward the same to end customer for issuance of MDCC.</p> <p>After receipt of complete quality documents / TCs, minimum 7 days would be required by BHEL for issuance of MDCC. Material shall be dispatched within 7 days from the the date of issuance of MDCC.</p>	
23.	Action against Bidders /	In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings, who either fail to	

	vendor / supplier / contractor in case of default:	<p>perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc.</p> <p>Suspension of Business Dealings could be in the form of “Hold” or “Banning” a supplier/ contractor or a bidder and shall be as per “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” available at BHEL’s website “https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors”</p>													
24.	Arbitration/settlement of disputes clause	In case of any dispute arising out of as in connection with this contract, the same shall be referred to arbitration under Arbitration & Conciliation Act 1996 of a sole arbitrator who shall be appointed by mutual consent of the parties. The seat & venue of arbitration shall be Haridwar. The proceedings shall be conducted in English. The Governing law of contract shall be the substitutive law of India.													
25.	Breach of contract	<p>In case bidder to fail to full-fil the contractual obligations as per contract, Performance Security/Performance Bank Guarantee available with BHEL against the contract value, the same be encashed by BHEL.</p> <p>Further, legal remedies be pursued, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions/extant guidelines of BHEL. Please confirm.</p>													
26.	Integrity Pact	<p>(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.</p> <table border="1"><thead><tr><th>SI</th><th>IEM</th><th>Email</th></tr></thead><tbody><tr><td>1.</td><td>Shri Otem Dai, IAS (Retd.)</td><td>iem1@bhel.in</td></tr><tr><td>2.</td><td>Shri Bishwamitra Pandey, IRAS (Retd.)</td><td>iem2@bhel.in</td></tr><tr><td>3.</td><td>Shri Mukesh Mittal, IRS (Retd.)</td><td>iem3@bhel.in</td></tr></tbody></table> <p>(b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three-part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.</p> <p>(c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.</p>	SI	IEM	Email	1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in	2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in	3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in	
SI	IEM	Email													
1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in													
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in													
3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in													
27.	Guarantee/ Warranty	<p>Kindly confirm the following Guarantee/Warranty clause;</p> <ul style="list-style-type: none">Guarantee/Warranty period shall be provided for a period of 36 months from the date of supply or 18 months from commissioning, whichever is earlier. In case of any failure or trouble reported from site, the supplier should depute their representative immediately to attend the problem and replace the defective component/part if required, without any additional cost to BHEL.The supplier to provide technical support/services or alternative solutions against any issues; reported in the equipment supplied by the vendor for up to at least 10 years from the supply date. BHEL reserve the rights to reject/load the offers having lesser guarantee period as mentioned above.													
28.	Performance Security/ Performance	Successful bidder to submit Performance Security/Performance Bank Guarantee of 5% of the contract Value (Excluding Taxes). The Performance Security/PBG shall be submitted within 30 days of notification of the award of Contract and it should													

	Bank Guarantee:	remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including Guarantee/warranty obligations. PS/PBG shall be returned to the contractor without interest, after the contractor duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the Guarantee/Warranty under the contract. The Performance Security/PBG shall not carry any interest. Please confirm.	
29.	Order Acceptance :	Ink signed order acceptance shall be furnished within 15 days of order placement. In case, order acceptance do not received within 15 days of order placement, PO deemed to be accepted by you.	
30.	Beneficiary of PO	Kindly confirm on whom the PO will be placed in the event of ordering.	
31.	Delivery	Bidders are requested to offer best possible delivery (project/Lotwise) from PO placement.	
32.	Additional Conditions for Assessment	BHEL reserves the right to consider / Not-consider the offers based on the evaluation of documents submitted for the Pre-Qualification Criteria (PQR).	
		BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.	
33.	O&M Manuals	Kindly confirm that in the event of ordering O&M manuals will be provided in 22 nos. of Hard Copies and 04 CD ROMs as per MDL (Annexure-III) . Out of these, 19 Nos. Hard Copies & 3 CD ROMs of O&M Manuals would be supplied directly to BHEL Haridwar and balance O&M Manuals shall be supplied along with the equipment at site and description of the same should be mentioned in packing list.	
		Kindly note that your documents including O&M Manual shall bear the details as per cover page (Annexure-IV). Further the cover page of the O&M Manual shall be bilingual in Hindi & English Language.	
34.	Quality Requirement	<ul style="list-style-type: none"> Kindly submit endorsed copy of customer approved quality plan no QA/BI/QP/114 (Copy attached). Kindly specifically confirm to follow customer approved QP. Inspection shall be done by Third Party Inspection agency TUV & End User as per End User approved quality plan, kindly confirm. For spares items, kindly confirm to submit test certificates endorsed by third party inspection agency as per End User approved QP. 	
		Inspection charges will be borne by BHEL. All coordination with third party inspection agency shall be done by the supplier only. Inspection call to third party inspection agency may be raised directly by the supplier; however 15 days are to be provided for deputation of representative of third party inspection agency for inspection.	

SPECIAL NOTE FOR BIDDERS:

Following documents are an integral part of this Tender Enquiry and endorsed copies of these documents (duly signed and stamped on each page, as a token of acceptance) are to be submitted/uploaded along with offer on GeM portal against this bid.

1. Please submit replica of Price schedule (without prices) showing "quoted" in place of price along with techno-commercial bid (Part-I).
2. Please submit signed & Stamped copy (each page) of duly filled of confirmation column of "Buyers Specific Additional Terms & Conditions (ATC)" and its clause wise supporting documents where required.
3. Please submit signed & stamped copy (each page) of General Terms and Conditions of GeM.
4. Please submit signed & stamped copy (each page) of PQR documents with proper filled information and related supporting documents as mentioned in PQR.
5. Please submit signed & stamped copy of QP .
6. Updated MSE/UAM certificate (if any).
7. Certification of Local content as per PPP-MII Order-2017 as per enclosed format .

Format for preference to Make in India order

Certificate

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020, we hereby certify that we M/s _____
(supplier name) are local supplier. The percentage of local content in the items _____ offered by us against Enquiry No. _____ is _____% (percentage).

Details of location at which local value addition will be made is as follows:

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

The Certificate shall be from the Cost Auditor / CA of the Company.

Framework Confidentiality Agreement cum Undertaking

This Agreement made on this the _____ day of (month) _____ 20____
("Effective Date") by and between
M/s BHARAT HEAVY ELECTRICALS LIMITED, having registered office at "BHEL
House", Siri Fort, New Delhi – 110049 (India), acting through its _____ Unit
(hereinafter may be referred to as "BHEL" or "the Company").

And

M/s _____ (address) _____
represented by authorized representative Sri _____ (herein after
referred to as the "Supplier").

The Supplier and the Company may, unless the context otherwise requires, hereinafter be
collectively referred to as "Parties" or singly as the "Party".

RECITALS

Whereas, BHEL is engaged in the design, engineering, manufacturing, construction, testing,
commissioning and servicing of a wide range of products, systems and services for the core
sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable
energy, Oil & Gas and Defence and providing associated services to varied customers in
relation to which BHEL/its affiliates own valuable information of a secret and confidential
nature.

Whereas the Company may, in connection with Contract(s) (as defined hereunder) placed or
to be placed upon the Supplier, or otherwise, from time to time, make available, Technical
Information as is defined hereunder.

And Whereas BHEL is willing to provide such Technical Information to the Supplier from
time to time and the Supplier understands and acknowledges that such Technical Information
is valuable for the Company and as such is willing to protect confidentiality of such
information, subject to the terms and conditions set out hereunder.

Now therefore, in view of the foregoing premises and in consideration of the mutual
covenants and agreements hereinafter set forth, the Parties agree as under:

1. Definitions:

Unless the context so requires, in this Agreement, the following terms will bear the meaning
ascribed to the said term in this clause.

- A. **"Contract"** means the Contract entered into with a Supplier and includes a Purchase
Order, or a Work Order for procurement of any goods or for provision of any services.
- B. **"Effective Date"** means the date of this Agreement as mentioned in the preamble of
this Agreement.

- C. **“Supplier”** includes a Contractor or a Vendor of the Company whether for supplying of goods or for providing any services under a Contract or both.
 - D. **“Technical Information”** includes Drawings, and/or Product Standards and/or Specifications and/or Corporate / Plant Specifications and/or Technological Process Sheets and/or Technical Data Sheets and/or Jigs & Fixtures and/or Pattern & Dies and/or Special Gauges and/or Tools etc. belonging to or wherein the Company has acquired from a third party a right of user and includes any improvement thereto from time to time whether carried out by the Company or by the Supplier.
 - E. **“Intended Purpose”** means the purpose for which the Technical Information is provided to the Supplier under or in connection with a Contract.
 - F. **“Improvement”** includes any modification made to, or adaptation of, the Technical Information which enhances or is calculated to enhance the performance (whether in terms of effectiveness or in terms of efficiency or both) of the product and/or the service to be provided by the Supplier under a Contract.
2. This Agreement shall come into force/deemed to have come into force, as the case may be, on the Effective Date; or, on the first date when the Technical Information or any part thereof is provided by BHEL to the Supplier; whichever is earlier.
3. **Agreement deemed to be incorporated in each Contract:** Unless and to the extent otherwise stipulated in the Contract, the conditions of this Agreement are deemed to be incorporated in all Contracts which may be entered into between the Company and the Supplier. Further, unless otherwise stipulated, the obligations under this Agreement are and will be independent of the obligations under the Contracts and such obligations of the Supplier hereunder will remain of full effect and validity notwithstanding that the period of validity of the Contracts has expired by efflux of time stipulated therein; or, the contract has been discharged by performance or breach; or, the termination of the Contracts for any reason whatsoever.
4. **Ownership:**
- 4.1 The Company may, from time to time, make available to the Supplier, Technical Information on a non-exclusive basis by way of loan.
- 4.2 The Supplier acknowledges and agrees that all Technical Information and copies thereof that are or may be provided by the Company to the Supplier, are and shall remain the property of BHEL or that of the concerned entity from whom BHEL has obtained the Technical Information and such Technical Information are and shall constitute trade secrets of the BHEL. Nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any patent, copyright or design or any other intellectual property rights of whatsoever description that subsists or may hereinafter exist in the Technical Information. Furthermore, nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any license or rights of use of such patent, copyright or design or any other

intellectual property rights of whatsoever description which may now or hereafter exist in the Technical Information except for use of the Technical Information strictly in accordance with this Agreement and the Contract and/or as directed in writing by the Company, solely for the Intended Purpose under the Contract.

4.3 Neither Party is obligated by or under this Agreement to purchase from or provide to the other Party any service or product and that any such purchase/sale of any product and/or service by one Party to the other Party will be governed by the Contract if any, that may be entered into by and between the Company and the Supplier.

4.4 The Supplier is/has been made well aware and acknowledges that the Technical Information being/which may be shared with it by the Company has been either generated by the Company by incurring huge investment and cost or obtained from foreign collaborators under Technical Collaboration Agreement (TCA) with stringent confidentiality conditions.

4.5 The Supplier agrees and undertakes to adhere to confidentiality requirements as applicable to BHEL under a TCA and also ensure that the confidentiality requirements are adhered to by all its concerned employees or sub-contractors/suppliers (where permitted to be engaged by BHEL). Any damages, losses, expenses of any description whatsoever, arising out of or in connection with a breach of the confidentiality requirements under a TCA owing to any act or omission on the part of the Supplier or its employees or sub-contractors/suppliers that is claimed by a foreign collaborator from the Company shall be wholly borne by the Supplier and it shall keep BHEL fully indemnified in this behalf. The demand by the Company shall be conclusive upon the Supplier who shall thereupon forthwith pay to the Company without demur, dispute or delay the amount as demanded without demanding any further proof thereof.

4.6 The Supplier agrees and undertakes that unless so decided and advised by the Company in writing all rights/title to any Improvement to the Technical Information shall vest in the Company. The Supplier undertakes and agrees to inform forthwith to the Company of any such Improvement made to the Technical Information and transfer all drawings/documents or other materials connected with such Improvement to the Company and also agrees to fully cooperate with the Company for protecting the Company's interests in such Improvement in the Technical Information including but not limited to obtaining necessary protection for the intellectual property rights in such improvement, if so desired by the Company. If a question arises whether a modification amounts to Improvement to the Technical Information, the same shall be decided by the Company and such decision shall be final and binding upon the Supplier.

5. Use and Non-Disclosure:

5.1 Unless otherwise stipulated by the Company, all Technical Information made available to the Supplier, by the Company shall be treated as Confidential irrespective of whether the same is marked or otherwise denoted to be Confidential or not.

- 5.2 The Supplier undertakes and agrees that the Technical Information in its possession shall be held in strict confidence and will be used strictly in accordance with this Agreement and solely for the Intended Purpose under the Contract. Use of the Technical Information for any other purpose other than Intended Purpose is prohibited.
- 5.3 In particular, the Supplier shall not use Technical Information or any Improvement in its possession for the manufacture or procurement of the Product(s) or components or parts thereof or use the Technical Information or any portion thereof or any modification or adaptation thereof in any form to provide any product and/or service to any third party, without the prior written consent of the Company.
- 5.4 The Supplier shall not disclose any of such Technical Information to any third party without the prior written consent of the Company. The Supplier agrees that without prior written consent of the Company, the Supplier shall not disclose to a third party about the existence of this Agreement, or of the fact that it is/was in possession of or has experience in the use of any Technical Information nor shall the Supplier share in any manner whatsoever, with a third party, the name or details of any Contract(s) awarded by the Company to it or performed by the Supplier or the scope of work thereof or share any document or correspondence by and between the Company and the Supplier in or in connection with this Agreement or such Contract(s). Notwithstanding what is stated elsewhere, the overall responsibility of any breach of the confidentiality provisions under this Agreement shall rest with the Supplier.
- 5.5 The Supplier undertakes and agrees not to make copies or extracts of and not to disclose to others any or all of the Technical Information in its possession, except as follows:
- (a) The Supplier may disclose the Technical Information to such of its officers and employees strictly to the extent as is necessary for such officer or employee for the Intended Purpose, provided that the Confidential Information (or copies thereof) disclosed shall be marked clearly as the confidential and proprietary information of Company and that such officers and employees shall similarly be bound by undertakings of confidence, restricted use and non-disclosure in respect of the Technical Information. The Supplier shall be responsible for any breach of such confidentiality provisions by such officers and employees.
 - (b) With the prior written consent of Company, the Supplier may disclose for the Intended Purpose such Technical Information as is provided for in such consent to such of its professional advisers: consultants, insurers and subcontractors who shall be similarly bound by undertakings of confidence, restricted use and non-disclosure in respect of such Technical Information.
 - (c) The Supplier shall not be prevented to make any disclosure required by (i) order of a court of competent jurisdiction or (ii) any competent regulatory authority or agency where such disclosure is required by law, provided that where the Supplier

intends to make such disclosure, it shall first consult Company and take all reasonable steps requested by it to minimize the extent of the Technical Information disclosed and to make such disclosure in confidence and also shall cooperate with the Company in seeking any protective order or any other remedy from proper authority in this matter.

6. Exceptions:

The obligations of the Supplier pursuant to the provisions of this agreement shall not apply to any Confidential Information that:

- a) was/is known to, or in the possession of the Supplier prior to disclosure thereof by the Company;
- b) is or becomes publicly known, otherwise than as a result of a breach of this agreement by the Supplier.
- c) is developed independently of the Disclosing Party by the Supplier in circumstances that do not amount to a breach of the provisions of this Agreement or the Contract;
- d) is received from a third party in circumstances that do not result in a breach of the provisions of this Agreement.

7. The obligation of maintaining confidentiality of the Technical Information on each occasion, shall subsist for the entire duration during which the Technical Information / equipment is in possession of the Supplier and shall thereafter subsist for a further period of --- years from the date when the complete Technical Information has been returned to the Company and if Technical Information has been returned in portions on different dates then, the period of ---- years will be reckoned from the date when the last portion of the Technical Information has been returned. Notwithstanding the expiry of the confidentiality obligation, the obligation of the Supplier under clause 5.4 shall continue to subsist for a further period of ----- years.

8. Warranties & Undertakings:

- a) The Supplier undertakes to ensure the due observance of the undertakings of confidence, restricted use and non-disclosure by its persons to whom it discloses or releases copies or extracts of the Technical Information.
- b) The Supplier shall keep the Technical Information or improvement made therein properly segregated and not mix up the same with any other material/documents belonging to him/it or to any other third party.
- c) The Supplier further undertakes that he/it shall not hypothecate or give on lease or otherwise alienate or do away with any of the Technical Information and/or equipment of the Company, made available to him/it, and undertakes that he/it shall hold the same as a trustee, in capacity of custodian thereof and use/utilise the same solely for the purpose of executing the Contract awarded by the Company.
- d) The Supplier further undertakes that he/it shall return all the equipment and/or Technical Information as far as practicable in the same condition in which the same was made available to him/it by the Company together with any Improvement thereon and the documents connected with such Improvement, to the Company forthwith upon completion of the scope

of work or Contract for which such Technical Information was provided by the Company to it or as directed by the Company together with a confirmation by way of an affidavit or in such manner as directed by the Company that it has not retained any equipment and/or Technical Information/Improvement thereof. In case any such equipment and/or Technical Information or Improvement thereof shall remain in his possession or is not capable of being returned, the retention and use of such Technical Information or Improvement thereto shall continue to be governed by this Agreement.

e) The Supplier undertakes to indemnify the Company for all the direct, indirect and/or consequential losses, damages, expenses whatsoever including any consequential loss of business, profits suffered by the Company owing to breach by the Supplier of its obligations under this Agreement and/or the confidentiality requirements, if any, contained in the Contract and that the Supplier hereby agrees that the decision of the Company in all such or any such matter/s shall be final and binding on the Supplier. On mere written demand of the Company, the Supplier shall forthwith and without demur or delay pay to the Company any such sum as determined by the Company as the amount of loss or damage or expense which has been suffered by the Company. The Supplier agrees that the Company shall be entitled to withhold and appropriate any amount payable to the Supplier under any Contract then existing between the Company and the Supplier, in case the Supplier fails to make payment, in terms of the written demand, within 7 days thereof. Without prejudice to the foregoing actions, in respect to any breach of this Agreement, the Company shall be entitled to take any other action against the Supplier as per applicable laws, the Contract, Company's applicable policies, guidelines rules, procedures, etc.

9. Without prejudice to any other mode of recovery as may be available to the Company for recovery of the amount determined as due as per Clause 8(e) hereinabove, the Company shall have a right to withhold, recover and appropriate the amount due towards such losses, damages, expenses, from any amount due to the Supplier in respect of any other Contract (s) placed on him/it by any department/office/Unit/Division of the said Company.

10. Arbitration & Conciliation:

a) In case amicable settlement is not reached between the Parties, in respect of any dispute
or

difference or claim or controversy arising out of the formation, breach, termination, validity or execution of the Contract(or Agreement) or the respective rights and liabilities of the parties or in relation to interpretation of any provision of the Contract or in any manner touching upon the Contract, then, either Party may, by a notice in writing to the other Party refer such dispute or difference or controversy or claim, (except as to any matters, the decision of which is specifically provided for therein) to the sole arbitration by the arbitrator appointed by Head/In-Charge of the Unit/Division/Region.

b) The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties to the dispute.

c) Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India), or other statutory modifications or re enactments thereof and the rules made thereunder and for

the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be at ----- **(Insert the name of the city/town of the concerned BHEL Unit/Division).**

d) In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred to by either party to the arbitration of one of the arbitrators in the department of public enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the parties hereto finally and conclusively.

e) Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Supplier shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner.

11. Governing Law & Jurisdiction:

This Agreement shall be governed by and be construed as per applicable Indian Laws in force at the relevant time.

Subject to clauses 10(a) and 10(d) hereinabove, all matters in connection with the subject agreement shall be subject to exclusive jurisdiction of Courts situated at -----**(insert the name of the place where the BHEL Unit/Division is located)**

SIGNATURE

WITNESSES

1.

Name

Address:

2.

Name:

Address:

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) with its registered office at _____² hereinafter referred to as the ' Vendor / Contractor / Supplier ', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs -- -----⁶ (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till

all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

WeBANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier 's liabilities.

This Guarantee shall remain in force upto and including..... ⁷ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁸we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed..... ⁶
- b) This Guarantee shall be valid up to⁷
- c) Unless the Bank is served a written claim or demand on or before⁸ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

Annexure-1

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 _____

_____ (hereinafter referred to as "Contract"). 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 panel of Independent External Monitor(s) (IEMs), 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. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during 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 Indian Penal Code (IPC) and Prevention of Corruption 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 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. 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.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

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, terminate the contract, if already awarded, exclude from future business dealings and/ 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 (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above, the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) 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 or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

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 panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are 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 IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs 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 IEMs the option to participate in such meetings.

- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption 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 IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact 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 Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

For & On behalf of the Principal
(Office Seal)

Place _____

Date _____

Witness: _____
(Name & Address) _____

For & On behalf of the Bidder/ Contractor
(Office Seal)

Witness: _____
(Name & Address) _____

MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		PROJECT: M/S MEL 2380MW (PHASE-II) MAHAN THERMAL POWER PROJECT, SINGRAULI, M.P.			
BHEL	VENDOR'S NAME	ITEM	LP BYPASS SYSTEM		Q/P NO.	QA/BU/02/134		2380 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-II), SINGRAULI, M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: BHEL, WARIDWAR			
		DWG. NO.	AS PER PD		DATED	18/03/2004					
		SPEC.	AS PER PD								
		REV.	02		Page 3 of 11						
S. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	

LP BYPASS STOP & CONTROL VALVE										
1.0	RAW MATERIAL									
1.1	VALVE BODY	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V
		B. MECHANICAL PROPERTIES	MAJOR	Mech. Test	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V
		C. NDT	MAJOR	UT	100% ACCEPT RTD ENDG ON WELD ENDS 100%	AS PER APPROVED DATA SHEET DRAWING	TC	S	P	V
1.2	BOUNNET	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V
		B. MECHANICAL PROPERTIES	MAJOR	Mech. Test	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V
		C. NDT	MAJOR	UT MPI	100% 100%	AS PER APPROVED DATA SHEET	TC	S	P	V
1.3	NOZZLES	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V
		B. MECHANICAL PROPERTIES	MAJOR	Mech. Test	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V
		C. NDT	MAJOR	UT MPI	100%	AS PER APPROVED DATA SHEET	TC	S	P	V
1.4	TRANSITION FITTS	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V
		B. MECHANICAL PROPERTIES	MAJOR	Mech. Test	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V
		C. NDT	MAJOR	UT MPI	100%	AS PER APPROVED DATA SHEET	TC	S	P	V
1.5	SUSPENSION	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PER HEAT	AS PER APPROVED DATA SHEET	TC	S	P	V

MANUFACTURER/SUB CONTRACTOR	LEGEND: I RECORDS IDENTIFIED WITH "IIC" SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE "P" PERFORM "W" WITNESS AND "V" VERIFICATION ALL "W" INDICATED IN COLUMN "W" SHALL BE "CMP" OF CUSTOMER	FOR CUSTOMER USE
	APPROVED BY	

Kamal Sehgal
Manager, QAX



MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN			TO BE FILLED BY BHEL		PROJECT: M/S MEL 2X600MW (PHASE-II) MAHAN THERMAL POWER PROJECT, SINGRAULI, M.P. 2X600 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-II), SINGRAULI, M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: BHEL, HANWARR				
BHEL	VENDOR'S NAME	ITEM	LF 8PASS SYSTEM	QF NO.	QA/R/QP/114	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY	REMARKS		
		DWG. NO.	AS PER PO	DATED	30/06/2014							
		SPEC.	AS PER PO									
		REV.	02									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK							
1	2	3	4	5	6	7	8	9	10	11		

		MECHANICAL PROPERTIES	MAJOR	MET TEST	PERFECT	AS PER APPROVED DATA SHEET	TC		P	R	V	
		CNDT	MAJOR	UT/RT	IMP.	AS PER APPROVED DATA SHEET	TC		P	R	V	
1.6	BOILER TUBES	MECHANICAL PROPERTIES	MAJOR	CHEMICAL ANALYSIS	PERFECT	AS PER APPROVED DATA SHEET	TC		P	R	V	
		MECHANICAL PROPERTIES	MAJOR	MET TEST	PERFECT	AS PER APPROVED DATA SHEET	TC		P	R	V	
1.7	ACTUATOR	CHECKS ON ACTUATOR	MAJOR	PERFORM	PERFECT	AS PER APPROVED DATA SHEET	CC		P	R	V	
2.0	MANUFACTURING											
2.1	MALFUNCTION PARTS	VISUAL/ DIMENSIONAL INSPECTION	MAJOR	VISUAL MEASUREMENT	PERFECT	NEEP TRAVELLER			P			
2.2	WELDING & HEAT TREATMENT	WPS	MAJOR	VISUAL TIME TEMPERATURE	PERFECT	ENQA/USDEX			P			
2.3	ASSEMBLY	ASSEMBLY	MAJOR	VISUAL	PERFECT	AS PER APPROVED DATA SHEET			P			
3.0	TESTING & INSPECTION											
3.1	NON WELDING	REUT	MAJOR	REUT	PERFECT	AS PER APPROVED DATA SHEET	TC		P	R	V	IN CASE OF RT VERIFICATION OF X-RAY FILM
3.2	NON WELDING	MEPT	MAJOR	MEPT	PERFECT	AS PER APPROVED DATA SHEET	TC		P	R	V	IN CASE OF RT VERIFICATION OF X-RAY FILM
3.3	HYDROSTATIC PRESSURE TESTING	ASSEMBLY	MAJOR	HYDRAULIC TEST	WELLY ALVEN	AS PER APPROVED DATA SHEET	TC		P	R	V	HYDROSTATIC PRESSURE TESTING
3.4	MECHANICAL	ASSEMBLY	MAJOR	UT/RT TEST	WELLY ALVEN	AS PER APPROVED DATA SHEET	TC		P	R	V	HYDROSTATIC PRESSURE TESTING

MANUFACTURER/SUB CONTRACTOR	LEGEND:	FOR CUSTOMER USE
	1. RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. ME: MANUFACTURER/SUBCONTRACTOR; B: BHEL/NDM; INSPECTION AGENCY; RE: CUSTOMER. INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION. ALL 'W' INDICATED IN COLUMN 'A' SHALL BE CNF OF CUSTOMER.	
	APPROVED BY	

Kamal Sehgal
Manager, QAX



MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		PROJECT: M/S MEL 2X600MW (PHASE-B) MAHAN THERMAL POWER PROJECT, SINGRAULI, M.P. 2X600 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-B), SINGRAULI, M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: BHEL, RAIPUR			
BHEL	VENDOR'S NAME	ITEM	LP BYPASS SYSTEM	QIP NO.	QA/8/CP/114	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY	REMARKS	
		DWG. NO.	A5 PER PD	DATED	10/06/2014						
		SPEC.	A5 PER PD								
		REV	02								
S. NO.		COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK					
1	2	3	4	5	6	7	8	9	10	11	

ITEM										
1	INSTRUMENT SYSTEM CONTROL									
1.1	ON TASK	DAMAGE	MAJOR	VISUAL	100%	MANUFACTURE DRAWING	COC		P	V
		DIMENSIONS	MINOR	MEASUREMENT	100%	MANUFACTURE DRAWING	COC		P	V
		VERIFICATION OF SUPPLIER CERTIFICATE IDENTIFICATION CORRELATION TO SC, PURCHASE MATERIAL PLATES	MAJOR	CERTIFICATE REVIEW	100%	MANUFACTURE DRAWING	COC		P	V
1.2	BOUGHT OUT ITEMS									
	LEVEL TRANSDUCER	DAMAGE, TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V
		MODEL CODE	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V
		CALIBRATION	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V
	PRESSURE TRANSMITTER	DAMAGE, TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V
		MODEL CODE	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V
		CALIBRATION	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V
	TEMPERATURE TRANSMITTER	DAMAGE, TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V
		MODEL CODE	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V
		CALIBRATION	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC		P	V

MANUFACTURER/SUB CONTRACTOR	LEGEND:	FOR CUSTOMER USE
	1 RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.	
	M: MANUFACTURER / SUBCONTRACTOR; B: BHEL / NDM; I: INSPECTION AGENCY; C: CUSTOMER	APPROVED BY
	INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION	
ALL 'W' INDICATED IN COLUMN 'W' SHALL BE 'COC' OF CUSTOMER		

Kamal Sehgal
Manager, QAX



MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		PROJECT: M/S BHEL 2300MW (PHASE-II) MAHAJAN THERMAL POWER PROJECT, SINGRAULI, M.P. 2300 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAJAN (PHASE-II), SINGRAULI, M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: BHEL, VARANASI			
BHEL	VENDOR'S NAME	ITEM	UP Bypass SYSTEM	QIP NO.	QAM/QP/134	DATE	10/09/2023	Page 5 of 11			
		DWG. NO.	AS PER PO								
		SPEC.	AS PER PO								
		REV.	00								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY	REMARKS	
3	2	3	4	5	6	7	8	9	10	11	

	THREE PHASE MOTORS	DAMAGE, RE-TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
		MODEL CODE	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
		VERIFICATION OF SUPPLIER CERTIFICATE	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
	ACTUATOR S	DAMAGE, RE-TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
		MODEL CODE	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
		PRESSURE TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
	PRESSURE RELIEF VALVES	DAMAGE, RE-TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
		MODEL CODE	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
		ADJUSTMENT	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
	PRESSURE GAUGES	DAMAGE, RE-TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
		MODEL CODE	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
		CALIBRATION	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
	THERMOWELDER	DAMAGE, RE-TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
	CHAMBERLAIN	DAMAGE, RE-TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	
	COOLING TOWER	DAMAGE, RE-TEST	MAJOR	VISUAL	100%	DWG. DATA SHEET	COC	N	P	V	V	

MANUFACTURER/SUB CONTRACTOR	LEGEND: 1. RECORDS IDENTIFIED WITH 'TIC' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / AGM, INSPECTION AGENCY M: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'W' SHALL BE 'CIP' OF CUSTOMER	FOR CUSTOMER USE
	APPROVED BY	

Karnal Sehgal
Manager, QAX



MANUFACTURER'S NAME AND ADDRESS			STANDARD / QUANTITY PLAN				TO BE FILLED BY BHEL		PROJECT: M/S REL 2X800MW (PHASE-III) MAHAN THERMAL POWER PROJECT, SINGRAULI, M.P. 2X800 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-III), SINGRAULI, M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: BHEL, HARDWAR			
BHEL	VENDOR'S NAME	ITEM	LP BYPASS SYSTEM	OP NO.	QA/BA/CP/114	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY	REMARKS		
		DRG. NO.	AS PER PO	DATED	18/09/2004							
		SPEC.	AS PER PO									
		REV	02									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK							
1	2	3	4	5	6	7	8	9	10	11		

Main supply

	CHIMNEY	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG/DATA SHEET	COC	S	P	N	W
	Regenerative Pump	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG/DATA SHEET	COC	S	P	N	W
	COC PLUGS	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG/DATA SHEET	COC	S	P	N	W
	FILTERS	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG/DATA SHEET	COC	S	P	N	W
1	FUNCTION TEST FINAL INSPECTION										
2.1	IRISU	DIMENSIONS	MAJOR	MEASUREMENT	100%	AS PER DRAWING	TC	S	P	N	W
2.2	IRISU	CORRECT FITMENT	MAJOR	VISUAL	100%	AS PER DRAWING / CIRCUIT DIAGRAM	TC	S	P	N	W
2.3	IRISU	FUNCTION TEST	MAJOR	MEASUREMENT	100%	DRG/DATA SHEET / VENDOR PROCEDURE	TC	S	P	N	W
2.4	IRISU	PAINTING	MAJOR	VISUAL	100%	DRG/DATA SHEET / VENDOR PROCEDURE As per approved data sheet/drawing		S	P	N	W

MANUFACTURER/SUB CONTRACTOR	LEGEND: 1 RECORDS IDENTIFIED WITH "TICK" SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR S: BHEL / NCR, INSPECTION AGENCY R: CUSTOMER INDICATE "Y" PERFORM "W" WITNESS AND "V" VERIFICATION ALL "W" INDICATED IN COLUMN "V" SHALL BE "YHP" OF CUSTOMER	FOR CUSTOMER USE	APPROVED BY 

Kamal Sehgal
Manager, QAX

MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		PROJECT: M/S BHEL 3X860MW (PHASE-I) MAHAN THERMAL POWER PROJECT, SINGRAULI, M.P. 3X860 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-I), SINGRAULI, M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: BHEL, HARDWAR			
BHEL	VENDOR'S NAME	ITEM	LP Bypass SYSTEM		Q/P NO.	QA/50/DP/134					
		DRD NO.	AS PER PD		DATED	10/09/2014					
		SPEC.	AS PER PD								
		REV	02		Page 7 of 11						
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	

WATER INJECTION VALVES											
LO	RAW MATERIAL										
1.1	BODY AND NOZZLE	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PER LOT	AS PER APPROVED DATA SHEET	IT	S	P	V	W
		B. MECHANICAL PROPERTIES	-	Mech Test	PER LOT	AS PER APPROVED DATA SHEET	IT	S	P	V	W
		C. APPEARANCE	-	VISUAL INSPECTION	PER LOT	MSS SP-21	IT	S	P	V	W
1.2	STUD GASKETS	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PER LOT	EN 16847 P.1.1 ASTM A182 HT ASTM A184 2H	IT	S	P	V	W
		MECHANICAL PROPERTIES	-	Mech Test	PER LOT	EN 16847 P.1.1 ASTM A182 HT ASTM A184 2H	IT	S	P	V	W
2.0	ASSEMBLY										
2.1	STEM	DIMENSION VISUAL	MAJOR	VISUAL & DIMENSIONAL INSPECTION	PER LOT	DRAWING	COC	S	P		W
2.2	PLUG	DIMENSION VISUAL	MAJOR	VISUAL & DIMENSIONAL INSPECTION	PER LOT	DRAWING	COC	S	P		W
2.3	SEATING	DIMENSION VISUAL	MAJOR	VISUAL & DIMENSIONAL INSPECTION	PER LOT	DRAWING	COC	S	P		W
2.4	BODY ASSY	HYDRO	MAJOR	HYDRO	ALL LOTS	AS PER APPROVED DATA SHEET DRG.	TEST REPORT	S	P	S	W
		LEAKAGE	MAJOR	LEAKAGE	ALL LOTS	AS PER APPROVED DATA SHEET DRG.	TEST REPORT	S	P	S	W
		FUNCTION	MAJOR	FUNCTION & DIMENSION & PAINT	ALL LOTS	AS PER APPROVED DATA SHEET DRG.	TEST REPORT	S	P	S	W
											ASSEMBLED WITH ACTUATOR

MANUFACTURER/SUB CONTRACTOR	LEGEND: I RECORDS IDENTIFIED WITH 'I' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'COP' OF CUSTOMER	FOR CUSTOMER USE	APPROVED BY

Kamal Sehgal
Manager, QAX



MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY SHEL		PROJECT: M/S MEL 33000MW (PHASE-B) MAHAN THERMAL POWER PROJECT, SINGRAULI R.A.P. 33000 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-B), SINGRAULI M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: SHEL, HARDWAR			
SHEL	VENDOR'S NAME	ITEM	LP SPRAYS SYSTEM		Q.P. NO.	QA/SP/DP/114					
				DATED	10/04/2014						
		DWG. NO.	AS PER PO								
		SPEC.	AS PER PO								
		REV	00		Page 8 of 11						
S.L. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TITLE OF CHECK	QUANTITY OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY		REMARKS
1	2	3	4	5	6	7	8	9	D	M B N	11
2.5	THROATLES	ADJUSTMENT VISUAL	MAJOR	THROAT (N/A) VISUAL	ALL N/A YES	THROAT (N/A) VISUAL	THROAT (N/A) VISUAL	-		P	CONTINUED WITH ACTIVITY
		REPAIR	-	VISUAL	ALL N/A YES	REPAIR (N/A) VISUAL	REPAIR (N/A) VISUAL	-		P	
		C.P. MARKING	-	VISUAL	ALL N/A YES	REPAIR (N/A) VISUAL	REPAIR (N/A) VISUAL	-		P	

MANUFACTURER/SUB CONTRACTOR		LEGEND:	FOR CUSTOMER USE	APPROVED BY
		1 RECORDS IDENTIFIED WITH "1" SHALL BE ESSENTIALS PROVIDED BY CONTRACTOR IN QA DOCUMENTATION M: MANUFACTURER / SUBCONTRACTOR B: SHEL / NGVA, INSPECTION AGENCY R: CUSTOMER INDICATE IF PERFORM "W" WITNESS AND "V" VERIFICATION ALL "W" INDICATED IN COLUMN "5" SHALL BE "1" OF CUSTOMER		

Kamal Sehgal
Manager, QAX



MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY SHEL		PROJECT: M/S MEL 2X860MW (PHASE-B) MAHAN THERMAL POWER PROJECT, SINGRAULI NLP 2X860 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-A), SINGRAULI NLP PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: SHEL, HAWAAR			
BHEL	VENDOR'S NAME	ITEM	LP BYPASS SYSTEM	QIP NO.	QA/MSQP/134	QUANTITY OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY	REMARKS
		DRG. NO.	AS PER PD	DATED	10/09/2014						
		SPEC.	AS PER PD								
		REV	02								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	Page 9 of 31						
1	2	3	4	5	6	7	8	9	10	11	12

FLOW NOZZLE FOR W/T											
1.8	RAW MATERIAL										
	BRANCH PIPE	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PERFECT	AS PER APPROVED DATASHEET/ DRG.	TC	S	P	W	V
		MECHANICAL PROPERTIES		-MECH TEST		AS PER APPROVED DATASHEET/ DRG.	TC	S	P	W	V
		UNIT		UT		AS PER APPROVED DATASHEET/ DRG.	TC	S	P	W	V
	FLOW NOZZLE	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	DO	AS PER APPROVED DATASHEET/ DRG.	TC	S	P	W	V
		MECHANICAL PROPERTIES		-MECH TEST		AS PER APPROVED DATASHEET/ DRG.	TC	S	P	W	V
2.0	MANUFACTURING										
2.1	STRUCTURAL PARTS	VISUAL DIMENSIONAL INSPECTION	MAJOR	VISUAL DIMENSIONAL	PERFECT	SHOP TRAVELER		S	P		
2.2	WELDING/HEAT TREATMENT	RETHROWING	MAJOR		PERFECT	ENGR APPROX		S	P		
2.3	ASSEMBLY	RETHROWING	MAJOR	VISUAL	PERFECT	AS PER APPROVED DATASHEET/ DRG.		S	P		
3.0	TESTING & INSPECTION							S	P		
3.1	NON DESTRUCTIVE	RT DRIFT	MAJOR	RT UT	PERFECT	ASME SEC V B1 PRO 990.5.6	DC	S	P	W	V
		MT DRIFT	MAJOR	PT	PERFECT	ASME SEC V B1 PRO 990.5.6	DC	S	P	W	V
3.2	HYDROSTATIC PRESSURE TEST	PRESSURE TEST	MAJOR	HYDRO	PERFECT	AS PER APPROVED DUT AND D.T DRG. (Refer IFA 0000029)	DC	S	P	W	V

MANUFACTURER/SUB CONTRACTOR	LEGEND:	FOR CUSTOMER USE
	I RECORDS IDENTIFIED WITH "ICK" SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M- MANUFACTURER / SUBCONTRACTOR B- BHEL / NOM. INSPECTION AGENCY N- CUSTOMER INDICATE "P" PERFORM "W" WITNESS AND "V" VERIFICATION ALL "W" INDICATED IN COLUMN "W" SHALL BE "CWP" OF CUSTOMER	
	APPROVED BY	

Kamal Sehgal
Manager, QAX



MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		PROJECT: M/S MEL 2480MW (PHASE-III) MAHAN THERMAL POWER PROJECT, SINGRAULI, M.P. 2480 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-III), SINGRAULI, M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: BHEL, HARDWAR				
BHEL	VENDOR'S NAME	ITEM	LP BYPASS SYSTEM		OP NO.	QA/BS/OP/114						
		DWG. NO.	AS PER PO		DATED	30/05/2014						
		SPEC.	AS PER PO									
		REV	02		Page 10 of 11							
S. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY		REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12	
3.3	DIMENSION CHECK	WELDING - MAIN DIMENSION	MAJOR	DIMENSIONAL	PURPOSE	DRAWING		EC		P	Q	R
3.4	CALIBRATION REQUEST		MAJOR	VISUAL	PURPOSE			EC		P	Q	R
4	FINAL INSPECTION PACK (SHIPPING)	VERIFICATION OF COMPLETION SHIPPING PACKING	MAJOR	VISUAL	IMP.	WITH APPROVED DRAWING/DATASHEET		EC		P	Q	R

MANUFACTURER/SUB-CONTRACTOR	LEGEND: 1 RECORDS IDENTIFIED WITH '100' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NDM / INSPECTION AGENCY M: CUSTOMER INDICATE 'P' PERFORM BY WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'M' SHALL BE 'CMP' OF CUSTOMER	FOR CUSTOMER USE	 APPROVED BY: <i>[Signature]</i> 10/06/2023

Kamal Sehgal
Manager, QAX

MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		PROJECT: M/S BHEL 2X880MW (PHASE-4) MAHAN THERMAL POWER PROJECT, SINGRAULI, M.P. 2X880 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-4), SINGRAULI, M.P. PACKAGE: MAIN PLANT PACKAGE MAIN SUPPLIER: BHEL, HARDWARE			
BHEL	VENDOR'S NAME	ITEM	LP BYPASS SYSTEM	OP RD.	Q2/75/CP/134						
				DATED	16/09/2024						
		ORD. NO.	AS PER PO								
		SPEC.	AS PER PO								
		REV	02								
Page 11 of 11											
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTITY OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY		REMARKS
1	2	3	4	5	6	7	8	9	10	11	

DEVIATION											
1.0	RAW MATERIAL										
1.1	DRUM TUBE	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	POSSIBLE	AS PER APPROVED DATA SHEET	TC	N	P	R	V
		B. MECHANICAL PROPERTIES	MAJOR	METAL TEST	POSSIBLE	AS PER APPROVED DATA SHEET	TC	N	P	R	V
		CNDT	MAJOR	UT	FOR	AS PER APPROVED DATA SHEET	TC	N	P	R	V
2.0	IN PROCESS										
2.1	WELDING & HEAT TREATMENT	WPS	MAJOR	VISUAL THICKNESS MEASUREMENT	POSSIBLE	AS PER EN-15000		N	P	R	V
2.2	NON WELDING	RT MPI/PT	MAJOR	RT MPI/PT	POSSIBLE	AS PER EN-15000	TC	N	P	R	V

MANUFACTURER/SUB CONTRACTOR	LEGEND: 1. RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / MOM INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN '11' SHALL BE 'CNP' OF CUSTOMER	FOR CUSTOMER USE	
		APPROVED BY	

Kamal Sehgal
Manager, QAX