



A Maharatna Company

एन टी पी सी लिमिटेड

(भारत सरकार का उद्यम)

NTPC Limited

(A Govt. of India Enterprise)

(Formerly National Thermal Power Corporation Ltd.)

(केंद्रीय कार्यालय नोएडा)

Corporate Center NOIDA

Reference : CC-ENGG-9587-001-110-QVM-Q-162

Date : 09/04/2024

From : NAMRATA ZANAKRAJ NAYEK
ENGINEER

To : BHARAT HEAVY ELECTRICALS LTD
NEW DELHI
110049
IN

Cc : singhjp@bhel.in

Subject : EPC Package

Please find enclosed following drawings/ documents for necessary action at your end.

Vendor Drg. No. : HW-QAP-115

Orgn. Drg. No. : 9587-001-110-QVM-Q-162

Revision No. : 01

Drg. Title : LP TURBINE OUTER CASING (CASING UPPER PART, CASING SIDE
WALL (L&R), FRONT WALL (TS&GS)) - ENDORSEMENT'

App. Category : CAT-I

Release Date : 09/04/2024



Scan to verify

Comments : Approved in Cat-I.



Engineering Division
ISO 9001:2008 Certified



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Namrata

CAT-I

ENDORSEMENT SHEET FOR QP
REFERENCE / ~~STANDARD / FIELD~~ QUALITY PLAN (RQP / ~~SQP/RFQP/SFQP~~)

TO BE FILLED IN BY SUPPLIER AT TIME OF SUBMISSION				To be filled in by NTPC
PROJECT NAME	2 X 800 MW LARA PROJECT		REVIEW & ENDORSEMENT BY NTPC PROJECT SPECIFIC QP NUMBER ALLOTTED QP NO.: 9587-001-110-QVM-Q-162 DOC TITLE: LP TURBINE OUTER CASING (CASING UPPER PART, CASING SIDE WALL (L&R), FRONT WALL (TS&GS))- ENDORSEMENT REV. NO.: DATE:	
CONTRACT NO.:	CS-9587-001R-2-FC-NOA-7332			
MAIN SUPPLIER	BHEL			
MANUFACTURER WORKS & ADDRESS	M/S BHEL HEEP HARIDWAR			
ITEM /EQUIPMENT / SYSTEM/ SUB-SYSTEM DETAILS i.e. MODEL TYPE/SIZE/RATING etc.	LP TURBINE OUTER CASING (CASING UPPER PART, CASING SIDE WALL (L&R), FRONT WALL (TS&GS))	BHEL QP NO. : 1.03.01		
APPROVED QP NO.: RQP/ SQP /RFQP/SFQP	9915-371-110-HWR-QVM-Q-106	REV. NO.: 02	DATE: 18.01.2020	
Confirmation by Main Supplier (TICK WHICHEVER APPLICABLE)				(TICK APPLICABLE)
I. That the item/ component is identical to that considered for QP approval. OR.				The QP is endorsed for this project without any change
II. That there are minor changes in the item/ component with respect to that considered for QP approval, however the same do not affect the contents of QP. OR				
✓III. That there are minor changes in the item/ component with respect to that considered for QP approval, however the same affect the QP slightly, as indicated below / in attached sheet. <ul style="list-style-type: none"> - For cl. no. 1.000, characteristic (under column 3) to be read as “verification of supplier’s certificates (including chemical, heat treatment, mechanical, UT for plate thickness > 40 mm for AA10119 & for plate thickness >= 25 mm for AA10401”. - For cl. no. 2.100 to 2.700, remark under column 11 to be read as “* in case of off-loading on BHEL approved and NTPC agreed sub-contractors. The same shall be tied-up before offloading” - Cl. no. 2.100, S and B to be read as “P* & P/V*” respectively. - Legend: B=BHEL - Cl. no. 2.700, column 10C to be read as “W/V*” 				✓The QP is endorsed for this project with changes as indicated.
				<u>DISTRIBUTION OF ENDORSEMENT OF</u> A) RQP/SQP: 1. MAIN SUPPLIER (WITH A COPY OF QP) 2. MANUFACTURER 3. RIO 4. CQA-SPL 5. CQA-O/C B) RFQP/SFQP: 1. MAIN SUPPLIER (with a copy of QP) 2. MANUFACTURER 3. NTPC FQA (with a copy of QP) 4. NTPC Erection (with a copy of QP) 5. CQA-SPL 6. CQA-O/C
<i>Deepika Singh</i> SIGN.: (Main Supplier) DATE:06.04.2024	SIGN.: (Manufacturer)		DATE:	NTPC (Reviewed /Approved by/ Date & Seal)

CAT-I

		MANUFACTURING QUALITY PLAN						PROJECT: KHURJA STPP (2 X 660 MW) PACKAGE: MAIN PLANT PACKAGE CONTRACT NO. 9915-371 MAIN SUPPLIER: BHEL, Haridwar						
		ITEM: LP TURBINE OUTER CASING (CASING UPPER PART, CASING SIDE WALL (L&R), FRONT WALL (TS&GS))											QP NO.: 1.03.01	
													REV. 02	
													DATE: 18-JAN-2020	
		PAGE 1 OF 1												
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS	
									D	S	B	C		
1	2	3	4	5	6	7	8	9	D	10			11	
1.000	Material receiving inspection.	Verification of supplier's Certificates of plates > 40 mm thickness.	Major	Certificate review	100%	Test Certificate	AA10119/ AA10401	List of Q. Nos.	✓	-	P	V	Refer Note-1	
2.000	In process inspection													
2.100	Visual inspection	Visual inspection of welds	Major	Visual	100%	Drawing	Drawing	Obs. Sheet		-	P	-		
2.200	Stress relieving	Stress relieving Records	Major	Record Review of SR Graph	100%	Drawing	Drawing	SR Graph	✓	P*	P/ V*	V	* in case of sub-contracting on BHEL approved sub-contractors List attached.	
2.300	NDT	RT of butt welds (if applicable)	Major	NDT	As per Drg.	Drawing	Drawing	Report	✓	P*	P/ V*	V		
2.400		UT of butt welds (if applicable)	Major	NDT	As per Drg.	Drawing	Drawing	Report	✓	P*	P/ W*	W/ V*		
2.500		DPT of welds	Major	NDT	As per Drg.	Drawing	Drawing	Report	✓	P*	P/ W*	V		
2.600		DPT of welds for lifting lugs	Major	NDT	As per Drg.	Drawing	Drawing	Report	✓	P*	P/ W*	V		
2.700	Dimensions	Verification of machined dimensions & visual inspection after Machining	Major	Measurement	Random	Drawing	Drawing	Obs. Sheet/ Logsheet	✓	P*	P/ W*	W/ V*		
3.000	Final inspection													
3.100		Predepasch inspection	Major	Visual	100%	Drawing	Drawing	COC		-	P	-		

Note: 1) BHEL approved source of original plate manufacturer. Q number is to be verified by NTPC as per MOM dated: 17.10.07 pt. n

 (B K Kumar)		Legend: Records identified with "tick" shall be submitted to customer as a QA Documentation package. S= sub-vendor, B= BHEL/ BHEL nominated inspection agency, C= Customer/ customer representative, P= Perform, V= Review of records W= Customer witness (not hold, BHEL to give advance notice and customer to Associate but work will not stop. CHP= Customer Hold Point (work will not proceed unless the clearance from customer)	Digitally signed by HIRENDRA SONKAR Date: 2020.01.22 10:32:19 IST Reason: CAT I			
			Location: NTPCEOC DOC. NO. 9915-371-110-HWR-QVM-Q-106 REV 02 CAT			
MANUFACTURER/ SUB-CONTRACTOR	MAIN-SUPPLIER		FOR CUSTOMER USE	REVIEWED BY	APPROVED BY	APPROVAL SEAL
SIGNATURE						