

Tender No. Tender Enquiry No. B/4222/2019/4517V2_Welded SS Tubes for 2X660MW Khurja STPP

Corrigendum-II

A. Change in Quantity as tabulated below:

Sl. No.	Material Code & Item Description	Initial QTY.		Revised QTY.	
		Total Quantity	LOT Quantity	Revised Total Quantity	Revised LOT Quantity
1	Material Code W97716001531 WELDED AUSTENITIC SS TUBE GR 316L (FOR CONDENSER) SPEC: AA10753 REV: 09 SIZE: 25X0.7112,L=13600MM DIM.: ODXTK,L GRADE: SS316L	104746 Nos.	Lot-1, 52373 Nos. Lot-2, 52373 Nos	104538 Nos.	Lot-1, 52269 Nos. Lot-2, 52269 Nos
2	Material Code W97716001540 WELDED AUSTENITIC SS TUBE GR316L (FOR CONDENSER) SPEC: AA10753 REV: 09 SIZE: 25X0.889,L=13600MM DIM.: ODXTK,L GRADE: SS316L	1384 Nos.	Lot-1, 692 Nos. Lot-2, 692 Nos.	1382 Nos.	Lot-1, 691 Nos. Lot-2, 691 Nos.
3	Lifting Beam	02 No.		02 No.	

B. Change in QP as under:

Sl. No.	Initial QAP	Revised QAP
1	QP no. QA/BI/QP/306 (Rev. 02) dtd. 28/02/2020	QP no. QA/BI/QP/306 (Rev. 03) dtd. 07/11/2020

Price Schedule (Rev. 01) Tender Enquiry No. B/4222/2019/4517V2 Welded Austenitic SS Tubes (for Condenser) Project: 2X660MW Khurja STPP							
Sl. No.	Item Description	Unit	Quantity Required	Basic Material Price for each number Ex-works (Duly Packed) INR / No.	Total Material Prices Ex-Works (INR)	Freight Charges upto Khurja Project Site	Total Value
1	Material Code W97716001531 WELDED AUSTENITIC SS TUBE GR316L (FOR CONDENSER) SPEC: AA10753 REV: 09 SIZE: 25X0.7112,L=13600MM DIM.: ODXTK,L GRADE: SS316L	Number	"A"	"B"	"C=A X B"	"D"	"E=C+D"
			104538				
2	Material Code W97716001540 WELDED AUSTENITIC SS TUBE GR316L (FOR CONDENSER) SPEC: AA10753 REV: 09 SIZE: 25X0.889,L=13600MM DIM.: ODXTK,L GRADE: SS316L	Number	1382				
3	Lifting Beam	Number	2				
Total Package Price							

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN						TO BE FILLED BY BHEL						
BHEL		ITEM	WELDED AUSTENITIC SS TUBES		QP NO.	QA/BI/QP/306									
				REV.	03										
		DRG. NO./ SIZE		AS PER PO											
		SPEC.		AA10753											
		REV		AS PER PO		Page 1 of 2									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK		QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS		FORMAT OF RECORDS		AGENCY		REMARKS
											M	B	N		
1	2	3		4	5		6	7	8		9	D	10		11

1	RECEIVING COIL INSPECTION	IDENTIFICATION & VERIFICATION OF SUPPLIER'S CERTIFICATE VISUAL & DIMENSIONS CHEMICAL / MECHANICAL PROPERTIES	MAJOR	VERIFICATION OF MILL TC & VISUAL INSPECTION	100%	VENDOR'S STD.	BHEL SPEC	MILL TC IR	√	P	V	-	REFER NOTE-1
2	FORMING & WELDING	WELDING PARAMETERS	MAJOR	VISUAL	100%	-DO-	VENDOR'S STD	IR	√	P	V	-	
3	ID BEAD ROLLING	ID BEAD HEIGHT	MAJOR	MEASURE	100%	-DO-	BHEL SPEC	IR	√	P	V	-	
4	TUBE CLEANING	SURFACE CLEANLINESS	MAJOR	VISUAL	100%	-DO-	VENDOR'S STD	IR	√	P	V	-	
5	BRIGHT ANNEALING	TIME & TEMP	MAJOR	MEASURE	100%	BHEL APPROVED VENDOR'S STANDARD	BHEL SPEC	IR	√	P	V	-	
6	STRAIGHTNESS	STRAIGHTNESS	MAJOR	MEASURE	100%	BHEL SPEC	BHEL SPEC	IR	√	P	V	-	
7	ECT	EDDY CURRENT TEST	CRITICAL	VISUAL	100%	BHEL SPEC/ ASTM E 426	BHEL SPEC	TC	√	P	W*	-	* 10% RANDOM
8	HYDRO OR AIR UNDER WATER TEST	LEAKAGE, PRESSURE & DURATION WATER QUALITY IN CASE OF HT / AIR UNDER WATER	CRITICAL MAJOR	MEASURE MEASURE	100% 100%	BHEL SPEC BHEL SPEC	NO LEAKAGE BHEL SPEC	TC	√	P	W* V	- -	Air differential pressure test is acceptable in place of hydro / air under water test as per BHEL approved procedure
9	TEST ON TUBES	PRODUCT ANALYSIS	CRITICAL	CHEMICAL	1/HEAT	BHEL SPEC	BHEL SPEC	TC	√	P	V	-	** RANDOM

		LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' 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	FOR CUSTOMER USE	
MANUFACTURER / SUBCONTRACTOR		ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		APPROVED BY

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL				
BHEL		ITEM	WELDED AUSTENITIC SS TUBES	QP NO.	QA/BI/QP/306							
				REV.	03							
		DRG. NO./ SIZE	AS PER PO									
		SPEC.	AA10753									
		REV	AS PER PO	Page 2 of 2								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
									M	B	N	
1	2	3	4	5	6	7	8	9	D	10		11

		TENSILE TEST HARDNESS		MECH.	2/LOT						W		
		FLATTENING FLANGE			1/LOT						W		
		REVERSE BEND			1/450 MT						W**		
		INTERGRANULAR TEST		CORROSION	1/HEAT						W		
		SURFACE ROUGHNESS		MEASURE	1/HEAT						W		
		RERSIDUAL STRESS		MEASURE	1/LOT	BHEL APPROVED VENDOR'S STD					W**		
10	FINAL INSPECTION	OD / WT / SEAM HEIGHT / STRAIGHTNESS / VISUAL/LENGTH	MAJOR	MEASURE	100%	BHEL SPEC & PO	BHEL SPEC & PO	IR	√	P	W*	-	* 10% RANDOM
11	IDENTIFICATION / PACKING		MAJOR	VISUAL	100%	BHEL APPROVED PACKING BOX DRAWING	BHEL SPEC	IR	√	P	V	-	

TC: TEST CERTIFICATE

IR: INSPECTION RECORD

NOTE 1: TUBES SHALL BE FORMED FROM THE STRIPS HAVING NOMINAL THICKNESS OF 0.7112MM (22 BWG) AND 0.889 MM (20 BWG) RESPECTIVELY. IN SUPPORT OF THIS, BIDDER TO FURNISH PO/TEST CERTIFICATE FOR THE STRIPS PROCURED SAME AS NOMINAL THICKNESS OF THE FINISHED TUBES. EITHER OF THE DOCUMENTS MUST CLEARLY INDICATE THE QUANTITY.

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MANUFACTURER / SUBCONTRACTOR		ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		APPROVED BY