

BHARAT HEAVY ELECTRICALS LIMITED
UNIT: HEEP, RANIPUR, HARDWAR, UTTARAKHAND,
INDIA – 249 403 Tel.: 00911334285849; 284269

Date : 21.06.2018

CORRIGENDUM DOCUMENT

NIT NO- 38651-Open Tender B/4011/2017/4262/V1 for the requirement of LP BYPASS SYSTEM WITH SPARES

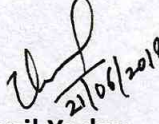
Project: Maitree (02 Sets)

With respect to above mention tender kindly note that there are the following changes in the tender;

1. IBR certificate as per Cl. No.5 of ST47050 Rev.02 is not required for LP Bypass Valve of above mentioned project. Applicable ASME code is to be followed in this regard.
2. Kindly confirm to follow revised quality plan no QA/BI/QP/114 rev.04 dtd 20.06.2018 (copy attached).

All other techno-commercial specifications will be as per initial documents only.

Last date of submission is: 02/07/2018 up to 01:45 PM
Opening date: 02/07/2018 at 14:00 Hrs.


21/06/2018
Kapil Yadav
DGM/PPX-BOI

MANUFACTURER'S NAME AND ADDRESS				STANDARD QUALITY PLAN				TO BE FILLED BY BHEL				TO BE FILLED BY BHEL							
BHEL		VENDOR'S NAME		LP BYPASS SYSTEM		QP NO. DATED		QA/B/114		20.06.2018									
		DRG. NO.		AS PER PO															
		SPEC.		AS PER PO															
		REV		04															
SL. NO.		3		CLASS		TYPE OF CHECK		QUANTUM OF CHECK		REFERENCE DOCUMENT		ACCEPTANCE NORMS		FORMAT OF RECORDS		AGENCY		REMARKS	
1		2		4		5		6		7		8		9		10		11	

LPBYPASS STOP & CONTROL VALVE																		
1.0	RAW MATERIAL																	
1.1	VALVE BODY	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PERHEAT	AS PER APPROVED DATASHEET	TC											
		B. MECHANICAL PROPERTIES	MAJOR	-MECH. TEST	PERHEAT	AS PER APPROVED DATASHEET	TC											
		C. NDT	MAJOR	UT	100% (EXCEPT WELD ENDS) ON WELD ENDS	AS PER APPROVED DATASHEET/DRAWING	TC											
				RT	100%													
				MPI	100%													
1.2	BONNET	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PERHEAT	AS PER APPROVED DATASHEET	TC											
		B. MECHANICAL PROPERTIES	MAJOR	-MECH. TEST	PERHEAT	AS PER APPROVED DATASHEET	TC											
		C. NDT	MAJOR	UT	100%	AS PER APPROVED DATASHEET	TC											
				MPI	100%													
1.3	NOZZLES	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PERHEAT	AS PER APPROVED DATASHEET	TC											
		B. MECHANICAL PROPERTIES	MAJOR	-MECH. TEST	PERHEAT	AS PER APPROVED DATASHEET	TC											
		C. NDT	MAJOR	UT/MPI	100%	AS PER APPROVED DATASHEET	TC											
1.4	TRANSITION PIECES	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PERHEAT	AS PER APPROVED DATASHEET	TC											
		B. MECHANICAL PROPERTIES	MAJOR	-MECH. TEST	PERHEAT	AS PER APPROVED DATASHEET	TC											
		C. NDT	MAJOR	UT/MPI	100%	AS PER APPROVED DATASHEET	TC											
1.5	SUSPENSION	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PERHEAT	AS PER APPROVED DATASHEET	TC											

MANUFACTURER/SUB CONTRACTOR		LEGEND:		FOR CUSTOMER USE	
 20/06/2018 संजीव कुमार भारद्वाज Sanjeev Kumar Bhardwaj वरिष्ठ अभियन्ता/Senior Engineer गुणता आश्वासन/Quality Assurance बी.एच.ई.एल., हरिद्वार/BHEL, Haridwar		RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.		APPROVED BY	
		M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER			
		INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION			

MANUFACTURER'S NAME AND ADDRESS				STANDARD QUALITY PLAN				TO BE FILLED BY BHEL				TO BE FILLED BY BHEL			
VENDOR'S NAME		ITEM	LP BYPASS SYSTEM	QP NO.	QA/B/QP/114										
BHEL		DRG. NO.	AS PER PO	DATED	20.06.2018										
		SPEC.	AS PER PO												
		REV	04												
		CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY						
SL. NO.	2	3	4	5	6	7	8	9	M	B	N	REMARKS			
1												10	11		

3.5	DIMENSION & WALL-THICKNESS CHECK	WELDING+ MAIN DIMENSION	MAJOR	MEASUREMENT	ALL VALVES	AS PER DRAWING	TC	N	P	V		
3.6	NDE MACHINED	PT	MAJOR	PT	ALL VALVES	ASMESEC. V/VIII	TC	N	P	V		
3.7	FUNCTION / PERFORMANCE TEST	FUNCTIONAL TEST AS PER APPROVED TEST PROCEDURE	MAJOR	PERFORMANCE	ALL VALVES	AS PER APPROVED DATASHEET / DRAWING	TC	N	P	W		ACTUATOR + VALVE
	NOISE LEVEL	CONFIRMATION FOR MEETING NOISE LEVEL	MAJOR	NOISE TEST					P	V		
3.8	CV TEST		MAJOR	CV TEST	PER DESIGN	AS PER APPROVED DATASHEET / DRAWING	TC	N	P	V		
3.9	PAINTING, PACKING AND PRESERVATION		MAJOR	VISUAL	ALL VALVES	VENDOR'S STANDARD	-	N	P			

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		3	4	5	6	7	8
		Page 3 of 11					
		FOR CUSTOMER USE					
		LEGEND:					
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		ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER					
MANUFACTURER/SUB CONTRACTOR		APPROVED BY					

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SL. NO.	1	2	3	4	5	6	7	8	9	10	11				

HPSU													
I	INCOMING MATERIAL CONTROL												
I.1	OILTANK	DAMAGE	MAJOR	VISUAL	100%		MANUFACTURERDRAWING						
		DIMENSIONS	MINOR	MEASUREMENT	100%		MANUFACTURERDRAWING						
		VERIFICATION OF SUPPLIER CERTIFICATE, IDENTIFICATION & CORRELATION TOTCs FOR RAW MATERIAL PLATES	MAJOR	CERTIFICATE REVIEW	100%		MANUFACTURERDRAWING						
I.2	BOUGHT OUT ITEMS												
	LEVEL TRANSMITTER	DAMAGE, RUST	MAJOR	VISUAL	100%		DRG./DATASHEET						
		MODEL CODE	MAJOR	VISUAL	100%		DRG./DATASHEET						
		CALIBRATION	MAJOR	VISUAL	100%		DRG./DATASHEET						
	PRESSURE TRANSMITTER	DAMAGE, RUST	MAJOR	VISUAL	100%		DRG./DATASHEET						
		MODEL CODE	MAJOR	VISUAL	100%		DRG./DATASHEET						
		CALIBRATION	MAJOR	VISUAL	100%		DRG./DATASHEET						
	TEMPERATURE TRANSMITTER	DAMAGE, RUST	MAJOR	VISUAL	100%		DRG./DATASHEET						
		MODEL CODE	MAJOR	VISUAL	100%		DRG./DATASHEET						
		CALIBRATION	MAJOR	VISUAL	100%		DRG./DATASHEET						

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SL. NO.	COMPONENT & OPERATIONS	3	4	5	6	7	8	9	D	M	B	N	11		

1	THREEPHASE MOTORS	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
		MODEL CODE	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
		VERIFICATION OF SUPPLIER CERTIFICATE	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
	ACCUMUFATOR S	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
		MODEL CODE	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
		PRESSURE TEST	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
	PRESSURE RELIEF VALVES	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
		MODEL CODE	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
		ADJUSTMENT	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
	PRESSURE GUAGES	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
		MODEL CODE	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
		CALIBRATION	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
	THERMOMETER	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
	CF AIR COOLER	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			
	COOLING CUM FILTRATION	DAMAGE, RUST	MAJOR	VISUAL	100%	DRG./DATASHEET	COC	✓	P	V			

FOR CUSTOMER USE		APPROVED BY	
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MANUFACTURER/SUB CONTRACTOR	<i>[Signature]</i> 20/06/2018		

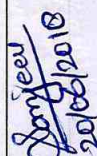
MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN					TO BE FILLED BY BHEL			TO BE FILLED BY BHEL								
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								DATED	20.06.2018										
			DRG. NO.		AS PER PO														
			SPEC.		AS PER PO														
			REV		04			Page 8 of 11											
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK		QUANTUM 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	TOPASSLY	A.DEMENSION / VISUAL B.PAINT	MAJOR	DIMENSIONAL/ VISUAL VISUAL	ALL VALVES ALL VALVES ALL VALVES	TOPASSLY DRWG. VENDOR'S STANDARD BHELP.O. VENDOR'S STANDARD	- - -	✓ ✓ ✓	P P P	ASSEMBLED WITH ACTUATOR
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1		2		3		4		5		6		7		8		9		10		11	

FLOW NOZZLE FOR WIV																					
1.0	RAW MATERIAL																				
	BRANCH PIPE	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PER LOT																
		B. MECHANICAL PROPERTIES		-MECH TEST																	
		C. NDT		UT																	
	FLOW NOZZLE	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	-DO-																
		B. MECHANICAL PROPERTIES		-MECH TEST																	
2.0	MANUFACTURING																				
2.1	MACHINING PARTS	VISUAL & DIMENSIONAL INSPECTION	MAJOR	VISUAL / DIMENSIONAL	PER PIECE																
2.2	WELDING & HEAT TREATMENT	SEED DRAWING	MAJOR		PER PIECE																
2.3	ASSEMBLY	SEED DRAWING	MAJOR	VISUAL	PER DESIGN																
3.0	TESTING & INSPECTION																				
3.1	NDE WELDING	RT OR UT	MAJOR	RT/UT	PER PIECE																
	NDE MACHINED WELD END	PT	MAJOR	PT	PER PIECE																
3.2	HYDROSTATIC PRESSURE TEST	PRESSURE TEST	MAJOR	HYDRO	PER PIECE																

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												M	B		
												N			
												10			
												11			
1	2	3	4	5	6	7	8	9	10	11					

DUMP TUBE													
1.0	RAW MATERIAL												
1.1	DUMP TUBE	A. CHEMICAL COMPOSITION	MAJOR	CHEMICAL ANALYSIS	PERHEAT	AS PER APPROVED DATASHEET		TC				P	V
		B. MECHANICAL PROPERTIES	MAJOR	-MECH. TEST	PERHEAT	AS PER APPROVED DATASHEET		TC				P	V
		C. NDT	MAJOR	UT	100	AS PER APPROVED DATASHEET		TC				P	V
2.0	IN PROCESS												
2.1	WELDING & HEAT TREATMENT	WPS	MAJOR	VISUAL TIME/TEMPERATURE	PERPIECE	ASMEIX / EN288						P	-
2.2	NDE WELDING	RT MPI/DPT	MAJOR	RT MPI/DPT	PERPIECE	ASMESEC. V/VIII		TC				P	W

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