CORRIGENDUM TO TENDER ENQUIRY 2024 BHEL 38592 1

- 1. BID SUBMISSION DATE OF TENDER ENQUIRY EXTENDED TILL 26TH SEPTEMBER 2024 1345 HRS IST
- 2. QUALITY REQUIREMENT REVISED REVISED QAP ENCLOSED
- 3. EMD NOT REQUIRED FOR THIS TENDER ENQUIRY

MANUI	FACTURER'S NAME AT	ND ADDRESS			Y PLAN		PROJECT		,					
	VENDOR'S NAME	ITEM	STAINLESS	STEEL-CLAD	PLATES	QP NO.	QA/F/QP/0	35/NPCIL	PACKAGE					
		DRG. NO.	AS PE	R PO			REV.: 01		CONTRACT NO.	r NO.				
BHEL		SPEC	AA107	32					CONTRACTOR	BHEL	200			
		REV		R P.O.	THUTTER		Page 1 of 3							
		TDC	AS PE	R PO						2000	200		DEL (1 DI/C	
SL. NO.	COMPONENT & CH		ERISTICS	CLASS	TYPE OF CHECK		QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMA RECOR		AGENCY M C N	REMARKS	
1	2	3		4	5		6	7	8	9	D	10	11	

1.	BASE PLATE MATERIAL (SINGLE PIECE WITHOUT JOINT)	REVIEW OF TCs FOR (i)DIMENSIONAL CHECK (ii)CHEMICAL COMPOSITION (iii)MECHANICAL PROPERTIES (iv)ULTRASONIC TESTING (v)HEAT TREATMENT	MAJOR	VISUAL CHEMICAL MECHANICAL UT HT CYCLE	100%	ASME SA-516 Gr.70 (S1, S5 & S12)	ASME SA-516 Gr. 70 (S1, S5 & S12)	TC	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	P	V	V	* REFER NOTE-5 OF GR of customer approved QP. RAW- MATERIAL ON THE BASIS OF CO-RELATED ORIGINAL OR CO-RELATED COMPUTER GENERATED MATERIAL TEST CERTIFICATE (MTC),
2.	CLAD SHEET MATERIAL. (IN CASE OF EXPLOSION BONDING, ONLY ONE JOINT IS ALLOWED IN CLAD SHEET MATERIAL)	REVIEW OF TCs FOR (i)CHEMICAL COMPOSITION (ii)MECHANICAL PROPERTIES (iii)DIMENSIONAL CHECK	MAJOR	VISUAL CHEMICAL MECHANICAL	100%	ASTM A 240 Gr. 316L	ASTM A 240 Gr. 316L	ТС	1	P	V	V	ORIGINATED FROM OEM (SEALED AND SIGNED BY OEM) FROM NPCIL/BHEL APPROVED MATERIAL MANUFACTURER IS ACCEPTABLE. VENDOR TO PROVIDE CONFIRMATION FOR COMPLIANCE OF THIS REQUIREMENT. -HOLD POINTS OF
	(SINGLE PIECE WITHOUT JOINT FOR OTHER BONDING PROCESS)	1					Silver 1						CUSTOMER (NPCIL), WORK CAN NOT BE PROCEED FURTHER WITHOUT CUSTOMER CLERANCE FOR BASE PLATE MATERIAL MTC AND CLAD SHEET MATERIAL TC.
3.	3. WELD SEAM LOCATION AND ORIENTATION SHALL BE PROVIDED BY MANUFACTURER FOR APPROVAL, BEFORE SEAM WELDING OF CLAD SHEET.												CLAUSE 3, 4 AND 5 ARE ONLY APPLICABLE IN
4.	WELDING PROCEDURE OUALIFICATION	BHEL APPROVED WPS & PQR	MAJOR	REVIEW OF WPS & PQR	100%	ASME SEC.IX	ASME SEC.IX	WPS & PQR	1	P	V		CASE OF EXPLOSION BONDING.
5.	SEAM WELDING OF CLAD SHEET	SEAM WELDING	MAJOR	(i)RADIOGRAPH IC TEST (ii)DPT	100%	ASME SEC.VIII Div. 1	ASME SEC.VIII Div. 1	I.R.	1	P	V		7 0 1

	Blumoh	LEGEND:	REVIEWED BY	APPROVED BY
MANUFACTURER/SUB CONTRACTOR	For SI 100.	BY CONTRACTOR IN QA DOCUMENTATION. !! M: MANUFACTURER / SUBCONTRACTOR C: BHEL/ NPCIL APPROVED TPIA N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION	4.7	
	- I	ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF NTPC		

	UFACTURER'S NAME			OFFICE OF LA	QUALITY P		(IOA E A IDGII	PROJECT					
	VENDOR'S NAME	and the second second second second		STEEL-CLAI	D PLATES QP 1	REV.: 0	//035/NPCIL	PACKAGE CONTRACT NO.					
BHE		DRG. NO			THE RESERVE OF THE PERSON OF T	KEV U		CONTRACTOR	BHEL				
Brie		SPEC	AA10			Page 2 of	22	CONTRACTOR	Driel		71170		
		TDC	AS PE			Page 2 of	3				ZVIII.	1000	
SL.	COMPONENT &		TERISTICS	CLASS	TYPE OF	OUANTUM	REFERENCE	ACCEPTANCE	FORM	AT OF	1	GENCY	REMARKS
NO.	OPERATIONS	CHARAC	ERISTICS	CLASS	CHECK	OF CHECK	DOCUMENT	NORMS	RECORDS				
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1	4		3	1 7	1 3	1 0	,	1	1 /	1 2		10	
6.	BASE PLATE	Visual and dime	ension	MAJOR	Visual and	100%	AA 10732	AA 10732		TV	TP	W	-BASE PLATE MATERIA
	MATERIAL and	7 ISHUI UIIG GIII		111111111111111111111111111111111111111	measurement			For thickness -	1	-			(SINGLE PIECE WITHOU
	CLAD SHEET							ASME SA 264	1	8	13		JOINT).
	MATERIAL						The same of the sa	Cl. 11.2		. 1			- CLAD SHEET
				WENT -			and the second second second	01. 11.2	100				MATERIAL: (1. IN CASE
					to the second second	DEPOSIT A CONTRA	BESTAND THE PER	a construction	10000			MAR	OF EXPLOSION BONDIN
													ONLY ONE JOINT IS
									13 - 15 - 1				ALLOWED IN CLAD SHE
					Mary Mary No.							MATERIAL. 2. SINGLE PIECE WITHOUT JOINT	
										10			FOR OTHER BONDING
					100				Marie S		180		PROCESS)
7.	BONDING	BONDING		MAJOR	VISUAL	100%	AA 10732	AA 10732	I.R.	1	P	V	11100000)
	BONDING	DOMBING		THE WOR	130113								
8.	CLADDED PLATE	Visual and dime	ension	MAJOR	Visual and	100%	AA 10732	AA 10732		V	P	W	-BASE PLATE MATERIA
	AFTER BONDING				measurement			For thickness -		115			(SINGLE PIECE WITHOU
								ASME SA 264					JOINT).
								Cl. 11.2					- CLAD SHEET
													MATERIAL. (1. IN CASE
									NAME OF THE OWNER.				OF EXPLOSION BONDIN
													ALLOWED IN CLAD SHE
													MATERIAL, 2. SINGLE
										•			PIECE WITHOUT JOINT
										1		FOR OTHER BONDING	
													PROCESS)
9.	In Case of any non-b	onding beyond	acceptable li	mits, cladde	d tube plate shall	be repaired onl	y after prior appro	val from BHEL and	NPCIL, PI	ease i	efer	custome	er approved QP for inspection
	stages and BHEL/BH	IEL TPIA & Cus	tomer interfac	ces.					F-48 - 1, 23		1		
10.	STRESS RELIEVING	STRESS RELII	EF	MAJOR	TIME-TEMP	100%	VENDOR	VENDOR	TC	V	P	V	
		The second			CHART		STANDARD	STANDARD					The state of the s
					1	1000	111111111	1.1.10000	10	17	-		
11.	FLATTENING	FLATNESS		MINOR	STRAIGHT	100%	AA 10732	AA 10732	I.R.	V	P	V	The statement of the statement of the
					EDGE								12
10	NA GURINIO	MACHINING	TO UDIAL	MAJOR	DIMENSION	100%	BHEL PO AND	BHEL PO AND	I.R	1	P	V	
12.	MACHINING	MACHINING DIMENSION	10 FINAL	MAJOR	DIVIENSION	10076	STANDARD	STANDARD	1.K	1	1		and the second second
		DIVIENSION					Biritbrito	o minorino			1000		
		0 0						REVIEWED B	V	LADE	POV	EDBY	
		Blumon	LEGEND:	DE DENTE	TED WITH STORY	CHALL DE ECCE	STIALLY INCLUDE			APP	KUV.	DBI	
MAN	UFACTURER/SUB	CONTRACTOR			A DOCUMENTATION		NTIALLY INCLUDE	aD .					
IVIAI	TRACTOR	CONTRACTOR					IL APPROVED TPIA						AND THE CONTRACTORS OF THE PERSON NAMED IN CONTRACT
CON	INACION				SUBCONTRACTO	C. BREL/ NPC	L ALIKOVED ITIF						
CON			N. CHETCHA				CONTRACTOR OF THE PROPERTY OF THE PARTY OF T		100				
CON			N: CUSTOM INDICATE '		'W' WITNESS AN	D 'V' VERIFICA'	TION						

MAN	UFACTURER'S NAME	AND ADDRESS			QUALITY PLA	IIN		PROJECT							
	VENDOR'S NAME	ITEM ST	AINLESS S	TEEL-CLAD	PLATES QP NO		035/NPCIL	PACKAGE	Charles State		1,00				
	The state of the s	DRG. NO.	AS PER			REV.: 01	CHARLES OF STATE	CONTRACT NO.							
BHEI		SPEC	AA1073	the same of the sa				CONTRACTOR	BHEL	1					
JI ILJI		REV	AS PER		SPECIFICATION OF THE SPECIFIC	Page 3 of 3	3								
		TDC	AS PER								100				
SL.	COMPONENT &	CHARACTERI		CLASS	TYPE OF	OUANTUM	REFERENCE	ACCEPTANCE	FORMA"		F AGENCY			REMARKS	
NO.	OPERATIONS	CHARACTER	STICS	CEITO	CHECK	OF CHECK	DOCUMENT	NORMS	RECOR	_	M	C	N	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
1.		3		4	5	6	7	8	9 D		10			11	
11				12000											
13.	TENSILE TEST	SILE TEST TENSILE TEST		MAJOR	MECHANICAL	100%	AA10732	AA10732	TC	1	P	W	V	CUSTOMER (NPCIL),	
100					The second secon									WORK CAN NOT BE	
14.	DUCTILTY TEST	DUCTILITY BEND	TEST	MAJOR	(i)CLADDING MATERIAL IN TENSION (ii)CLADDING	100%	AA10732	AA10732	TC.	1	P	W	V	PROCEED FURTHER WITHOUT CUSTOMER CLERANCE FOR BASE PLATE MATERIAL MTC AND CLAD SHEET MATERIAL TC.	
					MATERIAL IN COMPRESSION	1000/	AA10732	AA10732	TC.	J	P	W	V		
10/7/01	SHEAR STRENGTH TEST	SHEAR TEST		MAJOR	MECHANICAL	100%						W	V		
	ULTRASONIC TEST & VISUAL	UT & VISUAL	Linkon Linkon Stania	MAJOR	NDT	100% SCAN	ASTM A 578 acceptance level Level C and SA264 Quality level 1	ASTM A 578 acceptance level Level C and SA264 Quality level 1	TC	V	P	W	V		
17.	CORROSION RESISTANCE	IGC TEST		MAJOR	TESTING	1 PER HEAT OF SS/HT BATCH	ASTM A 262 PRACTICE- E	ASTM A 262 PRACTICE- E	TC	1	P	W	V		
18.	DRILLING OF HOLES IN CLAD & PLATE	Dimension of tube hole, Ligaments, Pitch & Overall Dimension, OVALITY, SURFACE FINISH		MAJOR	MEASUREMEN T	100%	DRAWING, TDC	DRAWING, TDC	DIEMSI ONAL REPOR T		P	W	* *	*For Tube Sheet holes: 10% by NPCIL	
19.	DIMENSIONAL INSPECTION	LENGTH, WIDTH, THICKNESS, FLATNESS		MAJOR	DIMENSIONAL	100%	AA10732 & BHEL PO	AA 10732 & BHEL PO For thickness - ASME SA 264	DIEMSI ONAL REPOR T		P	W		1	

	Blumoh	LEGEND: 1 D: VRECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED	REVIEWED BY	APPROVED BY
MANUFACTURER/SUB CONTRACTOR	CONTRACTOR	BY CONTRACTOR IN QA DOCUMENTATION. !! M: MANUFACTURER / SUBCONTRACTOR C: BHEL/ NPCIL APPROVED TPIA N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION		
		ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF NTPC		

MA	MANUFACTURER'S NAME AND ADDRESS				QUALITY PL		PROJECT										
	VENDOR'S NAME	DRG, NO.	STAINLESS S AS PER		O PLATES QP NO	QA/F/QP/ REV.: 01	035/NPCIL	PACKAGE CONTRACT NO.									
BHE		SPEC SPEC	AA1073			KEV 01		CONTRACT NO.	BHEL		7						
Din	21.		REV AS PER			Page 4 of	2	CONTRACTOR	BREL								
		TDC	AS PER			rage 4 01	3	The second second									
SL.	COMPONENT &	CHARACTI		CLASS	TYPE OF	QUANTUM	REFERENCE	ACCEPTANCE	FORMA	TOF	LACI	ENCY	REMARKS				
NO.		CHARACTI	ERISTICS	CLASS	CHECK	OF CHECK	DOCUMENT	NORMS	RECOR				REMARKS				
1	OPERATIONS	2		4	5	6	7	8	9	D	M C N		11				
1	1	1 3		1 4	1 3	1 0		0	1 9	1 D	1	10	11				
	MARKING AND	VISUAL		MAJOR	VISUAL	100%	TDC, AA10732	TDC, AA10732	I.R.	IVI	PI	N I					
	PACKING	1) There shall	he no	THE WORL	1100145	10070	&	& BHEL PO	1.10								
	THORING						BHEL PO	a billibiro		1							
		visual debonding at the															
		edges of clad		property and the													
		2)The cladded plates															
		shall be dispar							1 8 5 6								
		piles/stack. W	leight of						7 (2)		Neg I						
		phes/stack. w	eight of		and the second	D. 1886			1000								
		each stack/pile	e shall be														
		covered with							100								
-		polythene/rub	ber/any														
		soft material s															
		avoid any dan															
							25 (100)										
		surface. Top r							1000								
		cladded plate															
		pile/stack shall															
		completely co	overed with						100 000								
		minimum 2m		Tax 100													
		GI/any metal															
		covering its S	S surface														
	*	with				1000											
		polythene/rub	ber/any	March 1						1000							
		soft material s	sheet. Each														
		Stack of clade	ded plates														
		and facilitate															
		stack by sling						The second second second									
		to be done as	per					A SECOND CONTRACTOR		1							
		vendor's dra	wing duly														
		approved fro			The state of the s												

For customer clearance: customer approved QP shall be followed.

	Blumoh	LEGEND: 1 D: VRECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED	REVIEWED BY	APPROVED BY
MANUFACTURER/SUB CONTRACTOR	CONTRACTOR	BY CONTRACTOR IN QA DOCUMENTATION. !! M: MANUFACTURER / SUBCONTRACTOR C: BHEL/ NPCIL APPROVED TPIA N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION		
		ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF NTPC		