

PROJECT: 1X800MW NORTH CHENNAI STPP, STAGE-III

Corrigendum-4 Dated 30.08.2021

LHP & GHP Package for FGD

Tender No. 77/21/6057/Raj Dated 03.08.2021

Please note the following point

SI.		
No.	Event Description	To Note
1	Techno-commercial	Corrigendum-4 is issued to include the following: 1. To extend the due date of submission of offers from 30.08.2021 to 09.09.2021 2. Technical pre-bid clarifications (Annexure-T3) 3. Appendix-3 4. Appendix-4 5. Appendix-5
2	All other terms & conditions	Remain unchanged.

Note:

Also, please note that the full tender document can be downloaded from the website https://eprocurebhel.co.in/nicgep/app

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All other terms and conditions remain the same as per the original enquiry and its subsequent amendment / addendum / corrigendum / clarification.

Any further addendum / corrigendum/ clarification/ notice of due date extension such issued shall be part of the bidding documents and this will be available at the web site from where the original documents have been received / downloaded by the bidder.

Hence, bidders are requested to visit the web site on regular basis.

TECHNICAL PRE-BID CLARIFICATIONS DATED 30.08.2021 1X800MW NORTH CHENNAI STPP, STAGE-III LHP & GHP OF FGD

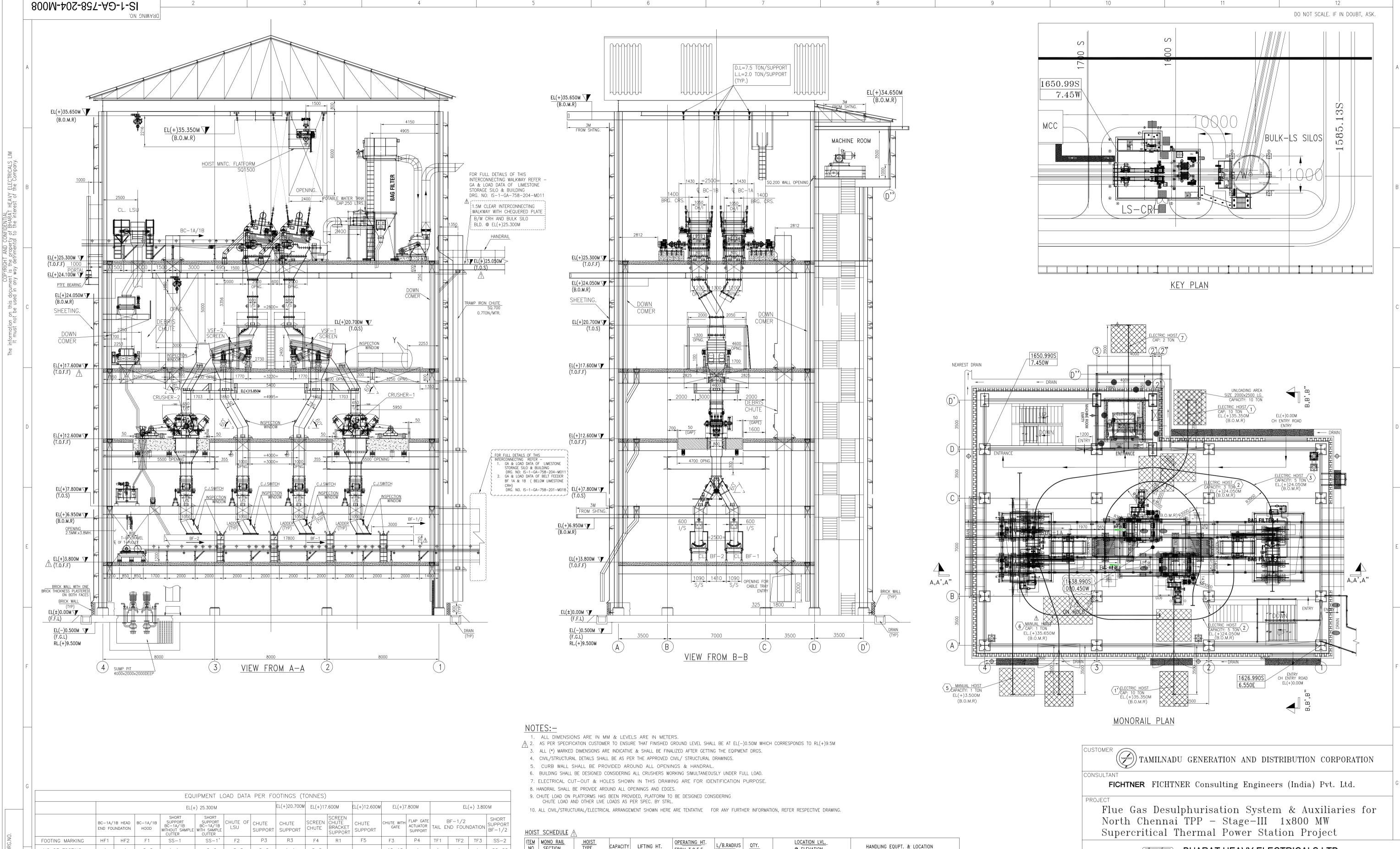
S. No.	Spec. Clause No.	Page No.	Specified in the Tender specification	Clarification Sought by Bidder	BHEL Replies dated 30.08.2021
1.	Corrigendum-3, Technical Pre Bid Clarifications dated 20.08.2021, Annexure – T2, SI. No 17		In corrigendum-3, BHEL clarified that tender specification prevails	It is noticed that, structural shed with sheeting is envisaged for Limestone stockpile and Gypsum stockpile. DE system will not be effective if stockpile area is not fully covered. In structural shed there will be various openings through which outside air will be sucked by dust extraction system which cannot be limited. Moreover, dust particles will also escape through the openings/ louvers etc. In view of above there is no proper basis to calculate the air capacity for selecting the DE equipment. So it can be differing in large quantity during detail engineering stage from the consideration during tendering stage. Accordingly it is requested kindly confirm the minimum Air Capacity which has to be considered for selecting the DE equipment in limestone and gypsum storage shed.	DE system for the entire shed length, where material is stacked, shall be divided into compartments for dust collection & suction. Number of suction points from each zone will be decided during detail engineering and sucked air will be then sent to the dust extraction system. So based on this philosophy system sizing is to be done which will subject to approval of TANGEDCO during detail engineering.
2.	Vol. II, SUB- SECTION - 2.2 Limestone Conveying System 5.0.0 DESIGN CRITERIA	3 of 36	Lump size of (-) 250mm can be handled by bucket elevator designed to handle the specified limestone.	Please note that the Lump size of (-)250mm shall be very big size to consider for bucket elevator design, as bucket elevator receives the material after the crusher which shall be (-)20mm. Please mention the feed size for bucket elevator design.	As Bucket elevator is after Crusher house, feed size for the Bucket elevator will be (-)20 mm as per spec so accordingly Bucket elevator to be designed.
3.	Flow Diagram Drg. No – IS-1-GA- 758-201-M001, Rev2		Height of the day silo is not mentioned in the Flow diagram.	Please provide the height of the day silo for BC-2A/B conveyor profile development.	Bidders to Refer Technical Enquiry specification Pt 66. in this regards.

S. No.	Spec. Clause No.	Page No.	Specified in the Tender specification	Clarification Sought by Bidder	BHEL Replies dated 30.08.2021
4.	Vol. II, SUB- SECTION - 2.2 Limestone Conveying System 7.0.0 CONSTRUCTION REQUIREMENTS	10 of 26	Bucket elevators shall be double chain bucket type and shall be manufacturer's standard size and design, modified only as required and suitable for duty	Please note that the required capacity can be achieved easily by Single chain bucket elevator. As Bidder having a vast experience of the equipment, Bidder request to BHEL to give liberation for the selection of single chain bucket elevator for limestone feeding.	Tender specifications prevail.
5.	IS-1-20- 2003/CONV Clause 28	28 of 38	Bidder to note that time is the essence of the contract, thus bidder to adhere to the drg/doc. submission schedule as per enclosed ANNEXURE-12.	Please replace the word "essence" with "important aspect"	Tender specifications prevail.
6.	Vol.II Part 1 Clause 3.7.8	386 of 1194	11KV cables & control cables between Station Switchgear located at main plant building and FGD switchgear shall be laid on overhead cable trays, suitably providing structure support, all along Boiler and ESP	Please describe the cable routing for HT cablesfor bidder's scope of cable tray estimation.	11 KV HT cable and control cable for 11KV / 415 V Dry Type transformer for LHP MCC shall be laid from FGD MCC Building to LHP MCC Building. Supply of cable is in BHEL scope. Supply of Trays, supports and laying & termination of cables is in Bidder's scope. Please refer to remarks column of point no. 7 of ANNEXURE-2 ELECTRICAL AND C&I SCOPE MATRIX.
7.	General		Drawing	AutoCAD version of floor plan is required	LHP MCC Building floor plan is provided with the tender with all dimensions clearly marked. Bidder is requested to make their estimation based on the same. However BHEL to consider cable vaults instead of trench in LHP MCC Building.

Notes:

- A. All Bidders to Note Vol. II, Section 2 Page: 16 of 26 Vol 2 Sec 2-2_Limestone Sec. 2.2 Lime Stone Conveying System, 17. Technological structures a) Stringers/Short supports Min. stringer size shall be ISMC 100 Short post shall be provided with sufficient cross bracing and knee bracing wherever required.
- B. Bidder to note following appendix are being issued along with these clarifications:
 - a. Appendix 3
 - b. Appendix 4
 - c. Appendix 5





		EQUIPMENT LOAD DATA PER FOOTINGS (TONNES)																	
				EL(+) 25.300M							EL(+)17.600M EL(+)12.600M			EL(+)7	EL(+) 3.800M				
			/	1B HEAD JNDATION	BC-1A/1B HOOD	SHORT SUPPORT BC-1A/1B WITHOUT SAMPLE CUTTER	SHORT SUPPORT BC-1A/1B WITH SAMPLE CUTTER	CHUTE OF LSU	CHUTE SUPPORT	CHUTE SUPPORT	SCREEN CHUTE	SCREEN CHUTE BRACKET SUPPORT	CHUTE SUPPORT	CHUTE WITH GATE	FLAP GATE ACTUATOR SUPPORT		BF-1/2 ND FOUN	IDATION	SHORT SUPPORT BF-1/2
	FOOTING	MARKING	HF1	HF2	F1	SS-1	SS-1'	F2	P3	R3	F4	R1	F5	F3	P4	TF1	TF2	TF3	SS-2
	NO OF F	FOOTING	4	4	6+6	4+4	6+6	2+2	2+2	4+4	2+2	4+4	4+4	12+12	4	4	4	4	20+20
-	DEAD LOAD	DL	3.525	5.48	0.7	0.6	1.2	1.0	0.85	1.5	2.0	3.5	1.0	2.5	2.0	1.1	0.74	0.74	0.6
	LIVE LOAD	LL	0.2	0.2	1.8	0.3	1.0	3.0	1.5	2.5	4.5	5.5	1.5	3.5		0.2	0.2	0.2	0.3
		Hx(Starting)	2.60	2.60	_	_	_	_		_	_	_	-	_		-1.84	-2.00	-2.00	_
		Hx(Running)	2.10	2.10	_	_	_	_		_	_	_	_	_		-1.94	-2.20	-2.20	_
Н	BELT PULL	Vy ±(Starting)	±4.0	±4.10	_	_	-	_		_	_	_	_	_		±4.31	±4.27	±4.27	_
┦¨		Vy ±(Running)	±3.19	±3.18	_	_	ı	_		_	_	_	_	_		±4.22	±4.2	±4.2	_
	NOTES FOR	R LOAD DATA	DIRECTI	ON:															

1. (-) SYMBOL -VE IMPLIES VERTICAL UPWARD FORCE AND +VE IMPLIES

FORM-66.101

VERTICAL DOWN WARD FORCE

2. DIRECTION OF HORIZONTAL LOADS AS INDICATED IN THE TABLE SHALL 3. DYNAMIC LOAD FACTOR OF 1.2 TO BE CONSIDERED FOR DESIGN. TOWARDS TAIL PULLEY= (+) VE TOWARDS HEAD PULLEY= (-) VE

/2		<u>HOIST</u>	SCHEDULE /	Λ									
20		ITEM MONO RAIL HOIST CAPACITY LIFTING HT.		OPERATING HT. FROM T.O.F.F	L/B.RADIUS	QTY.	LOCATION LVL. @ ELEVATION		HANDLING EQUPT. & LOCATION				
	A		FABRICATED MB 600	ELECTRICAL	10 T	35.350 MTRS.	10.050 MTRS.	3.0M	01 NO.	EL.(+)35.350M (B.O.		BELOW ROOF FOR ILMS AND HEAD PULLEY OF CONV. BC-1A/1B	JOI No
	A	1'	FABRICATED MB 600	ELECTRICAL	10 T	35.350 MTRS.	10.050 MTRS.	0.0M	01 NO.	EL.(+)35.350M (B.O.		BELOW ROOF FOR ILMS AND HEAD PULLEY OF CONV. BC-1A/1B	
		2	FABRICATED MB 400	ELECTRICAL	3 T	24.050 MTRS.	6.500 MTRS. 11.500 MTRS.	3.0M	01 NO.	EL.(+)24.050M (B.O.	.M.R)	3T FOR SCREEN EQUIPMENTS	
		3	FABRICATED MB 400	ELECTRICAL	5 T	24.050 MTRS.	6.500 MTRS. 11.500 MTRS.	3.0M	01 NO.	EL.(+)24.050M (B.O.	.M.R)	5T FOR CRUSHER & SCREEN EQUIPMENT	
		4	FABRICATED MB 400	ELECTRICAL	5 T	24.050 MTRS.	6.500 MTRS. 11.500 MTRS.	2.5M	01 NO.	EL.(+)24.050M (B.O.	.M.R)	5T FOR CRUSHER & SCREEN EQUIPMENT	RE
		5	ISMB 250	MANUAL	1 T	6.950 MTRS.	3.200 MTRS.	0.0M	01 NO.	EL(+)6.950M (B.O.M	1.R)	TAIL PULLEY OF CONV. BF-1/2	
	\triangle	6	FABRICATED MB 300	MANUAL	1 T	35.650 MTRS.	10.350 MTRS.	2.5M	01 NO.	EL.(+)35.650M (B.O.	.M.R)	FOR LSU	ZC
		7	FABRICATED MB 300	ELECTRICAL	2 T	34.650 MTRS.	3.500 MTRS.	_	01 NO.	EL.(+)34.650M (B.O.	.M.R)	FOR ELEVATOR	

