### **ADDENDUM-1**

DATE: 14.03.2025

**Dust Suppression and Water Systems Package for Singrauli STPP Stage-III (2x800 MW)** 

Tender Ref: 77/24/6170/BPA

NIC Tender ID: 2025\_BHEL\_45056\_1

### "Extension of due date for submission of offer"

Due date for submission of Offer has been extended to 24.03.2025

Submission of offer by 1.00 PM on 24.03.2025

Opening of Techno commercial bid at 4.00 PM on 24.03.2025

Any further addendum such issued carry 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.

### Pre-Bid Clarification-01 is enclosed.

### For Further Queries if any, Contact:

For Commercial:

Smt. Bhubaneswari Parida Manager / PG-III BHEL-ISG, Prof.C.N.R.Rao Circle, Bangalore-560 012 Off: 080 2218 4116,

e-mail: bparida@bhel.in

For Technical:

Sh. Muralinarayan N Sr. Engineer / PE / Mech BHEL-ISG, Prof.C.N.R.Rao Circle, Bangalore-560 012 Off: 080 2218 4219, e-mail: mna95@bhel.in

SI. No.	Tender Document Description	Clause No.	Page No.	Existing Provision	Bidder's Query	Clarification by BHEL
1	Technical Enquiry Specification with enclosures	-	-	-	In the technical specification documents and other annexures and drawings provided by the client, the scope of work and work area of each individual systems are not Cleary mentioned. Kindly provide detailed clarity of the same.	Scope of work is amply clear in Technical specifications and annexures.  Bidder to raise specific query if any.
2	NTPC approved vendor list	-	ı	-	Kindly provide NTPC's approved vendor list.	NTPC Indicative vendor list is already given as Annexure-12 in technical enclosures of NIT documents. Bidder to kindly refer the same. However, bidder has to submit the vendor list for approval of NTPC/BHEL post ordering.
3	Technical Enquiry Specification with enclosures	A.3	4	-	In the technical documents, specification of pipes in accordance with the sizes, specification of valves, pumps and other equipments are not mentioned, kindly confirm briefly.	These details are available in NTPC
4	Technical Enquiry Specification with enclosures	A.4	4	-	In the technical documents, specification of pipes in accordance with the sizes, specification of valves, pumps and other equipments are not mentioned, kindly confirm briefly.	specifications provided in NIT.
5	Technical Enquiry Specification with enclosures	-	-	-	Dimensions of the stock yards are not provided in the specifications and also in the tender drawings, kindly provide the same.	Dimensions of stockyards are clearly indicated in the Stockpile Layout & Civil Inputs for Stacker Cum Reclaimer Machine drawing (Dwg No: 1150-001-155-PVM-B-177) given in Annexure-5 of technical enclosures of NIT documents. Bidder to kindly refer the same.
6	Technical Enquiry	A.1, A.2	3	-	In the technical documents, specification of pipes in accordance	These details are available in NTPC

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	Specification with enclosures				with the sizes, specification of valves, pumps and other equipments are not mentioned, kindly confirm briefly.	specifications provided in NIT.
7	Technical Enquiry Specification with enclosures	A.7	-	-	Specification, capacity of the sump pumps and its conjugated system is not mentioned, kindly provide the same	As per NIT, complete system design is in the scope of bidder. Capacity of sump pump and its conjugated system to be decided by bidder based on system requirements meeting NIT and same will be subject to approval by NTPC/ BHEL during detail engg after award of order. Specifications are amply clear in this regard.
8	Technical Enquiry Specification with enclosures	A.8	-	-	Kindly provide the requirement of compressed air quantity at what pressure.	Bidder to design and provide the compressed air system for BOBR wagon as per NIT specifications.  Compressed air quantity and pressure shall be decided by bidder as per the design and system requirement.
9	Technical Enquiry Specification with enclosures	A.5	-	-	There is no clarity of the Zero liquid discharge system in the client's documents, kindly provide and clarify the entire specification if the system as well as detailed information of exact locations from where water is to be treated.	PI. refer NIT spec and also ZLD related documents in Annexure-6 of technical enclosures.  Bidder to design the ZLD system accordingly. Also, refer the CHP, BMHP, LHP & GHP flow diagrams and plot plan attached in Annexure-3 in technical enclosures for facilities/ buildings to be considered in this package for ZLD design.
10	Technical Enquiry Specification	A.6	-	-	There is no clarity of the coal slurry settling system in the client's documents, kindly provide and clarify	Pl. refer NIT spec and CSSP related documents attached in

SI. No.	Tender Document Description	Clause No.	Page No.	Existing Provision	Bidder's Query	Clarification by BHEL
	with enclosures				the entire specification if the system as well as detailed information about location of tanks, tank specs, etc.	Annexure-6 of technical enclosures.  Bidder to design the CSSP system accordingly. Also, refer the tentative SLD attached as Annexure-8 in technical enclosures for CSSP design.
11	Technical enquiry specification for Dust Suppression & Water Package of Coal, Biomass, Limestone & Gypsum Handling System — Document No.IS-1-23- 2008/DS	03.02.12	12 OF 47	Input water terminal point shall be at approx. E 877, N 1358 for Pump House (for both service & potable water) with 1 kg/cm2 pressure. Bidder9s scope shall start from here. All interconnecting piping & pumping system (if required) from this location up to RCC tanks of pump house including motorized & manual isolation valves, puddle flanges shall be in bidder's scope of supply & execution.	Does the common RCC tank have any partition for DFDS / SWS / Plain Water System? In that case we have to consider separate supply lines with its accessories. Please confirm.	Bidder to refer Annexure-8 of technical enclosures
12	Technical enquiry specification for Dust Suppression & Water Package of Coal, Biomass, Limestone & Gypsum Handling System — Document No.IS-1-23- 2008/DS	03.02.13	13 of 47	Inside CHP crusher house where both dust suppression and dust extraction systems are envisaged, DFDS/ cold fog DS system has to be provided by bidder at conv. 26A/B discharge points, receipt points of conv. 27A/B.	Please note that there is an ILMS at discharge of Conv.26A/B. These area is usually uncovered at the discharge. So fog nozzles cannot be provided at this location since we need a covered enclosure for the same. Kindly confirm if we have to consider fog nozzles. If Yes, PG cannot be provided at this location. Please confirm.  Accordingly discharge points of conv.31A / 31B / 28A / 28B also has ILMS. So fog nozzles cannot be provided at this location since we need a covered enclosure for the same. Kindly confirm if we have to	Bidder's proposal shall be subject to acceptance by NTPC during detail engineering.

SI. No.	Tender Document Description	Clause No.	Page No.	Existing Provision	Bidder's Query	Clarification by BHEL
					consider fog nozzles If Yes , PG cannot be provided at this location.Please confirm.	
13	Technical enquiry specification for Dust Suppression & Water Package of Coal, Biomass, Limestone & Gypsum Handling System — Document No.IS-1-23- 2008/DS	03.02.13	13 of 47	SI. Area Skirt board height in mm front end of chute of rear en  1 CHP conveyors 750 3000 50  2 Belt feeders 1000 3000 50	Please note for proper dust by the pression we require we require at the start and the start and the start and the start are the	Any additional skirt length if required by bidder for proper dust suppression shall be under this package bidder's scope (design, supply, erection etc. including the interconnection with the existing skirt board already provided by conveyor package vendor of BHEL).
14	Technical enquiry specification for Dust Suppression & Water Package of Coal, Biomass, Limestone & Gypsum Handling System — Document No.IS-1-23- 2008/DS	06.24.00	33 of 47	Specifically, for DFDS/ cold fog system, make of nozzles considered by bidder shall be from an NTPC approved source. In case, make of nozzles proposed/ considered by bidder is rejected by NTPC, then bidder has to go ahead with other NTPC approved source for nozzles, without any commercial implication.	Make of nozzles is not available in the approved make list. As we are the system provider, we shall provide nozzles as per make previously supplied in NTPC project. Please confirm.	Refer indicative vendor list, BOIs for DFDSS shall be from NTPC approved sources.
15	Annexure – 8 – Piping SLD tender purpose.	-	1 of 1	SWS / DWS shall be provided MCC / Control rooms/ toilets / etc.	Kindly provide GAD / details with no of floors of all other buildings applicable for SWS and DWS System	MCC GA drawings attached

SI. No.	Tender Document Description	Clause No.	Page No.			Clarification by BHEL		
16	General Layout for Plant DWG NO. PE-DG- 512-100-M001	-	1 of 1	-	Pipelines from Pump House to Gypsum Storage Shed shall be routed through available pipe racks /trestle. Please Confirm.	Noted, however bidder shall provide hume pipes for underground piping in line with NIT spec.		
17	Annexure-2 Electrical & C&I scope matrix for DS & Water package of 2x800MW Singrauli TPP Stage-III	K.3	5 of 8	In general sprinkling system is used for Dust suppression. However same is used for suppression of Hot Spots. (Hot Spot detection system is supplied by BHEL). Commands for operation of Solenoid is issued from Hot Spot detection system. Scheme of sequential timer panel to be made such that it can be operated from DCS in sequential Mode and operate individual solenoids through commands from Hot Spot detection system.	The points are contradictory to each other. We presume that the stockpile's solenoid valves shall be operated through sequential timer panel and sequential timer panel can be operated from DCS/PLC. – Please confirm	Bidder to follow specification		
	enquiry specification for DS & Water system, Doc no - IS-1-23- 2008/DS	03.02.17	14 of 48	Mentioned solenoids shall be operated automatically through PLC of Automatic sprinkler System				
	Annowire 2	A.6	1 OF 8	LT Switchgear excluding bidder supplied				
18	Annexure-2 Electrical & C&I scope matrix for DS & Water package of 2x800MW Singrauli TPP Stage-III	A.7 K.1	1 OF 8	LT Switchgear-Bidder supplied like Compressor LCP for this package etc  All electrical panels for supplied Mechanical equipment such as Isolator panels, Local control Panel, FCU, Solenoid Box, local starter panel, Distribution	The points are contradictory to each other. We presume that starter feeder for pump motors & power feeders for compressor for all DSS, water & BOBR system are in BHEL's scope of supply. – <b>Please confirm</b>	Bidder to follow specification		

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19	-	-	-	boards, local push button station, Emergency Stop PBs etc., for all drives required for this package is in bidder scope.  General Query	1. Flow drg. of each system	1. Bidder to refer Annexure-3 in
					<ol> <li>Layout drg. of plant</li> <li>Conveyor Details (length, width, capacity, etc.)</li> <li>Location of pump house</li> <li>Location of control room</li> </ol>	Technical enclosures of NIT documents which has the flow diagrams of CHP, BMHP, LHP & GHP indicating the facilities/buildings and the flow path. Bidder to develop the P&ID of each DS & water systems and submit the same for approvals.
						<ol> <li>Bidder to refer the Plot plan attached as Annexure-3 in Technical enclosures of NIT documents</li> <li>Bidder to refer Conveyor profiles attached as Annexure-4, plot plan in Annexure-3 and Conveyor/Building GA drawings in Annexure-5 in Technical enclosures of NIT documents which has the necessary details.</li> </ol>
						4. Tentative location of Pump house is already indicated in Plot Plan (Annexure-3) beside Conv-30A/B near TP-20 and also mentioned in NIT spec. Further snap taken from plot plan highlighting the pump house is attached below for your ready reference.

SI. No.	Tender Document Description	Clause No.	Page No.	Existing Provision	Bidder's Query	Clarification by BHEL
						5. Control room located near TP-24 marked in plot plan. Further snap taken from plot plan highlighting the control room is attached below for your ready reference
20	-	-	-	General Query	1. GA of building for SW and PW System other than TPs. (for LHP System, MCC buildings, Toilets, Etc.)	Bidder to refer SI No. 6 i) to xii) of Annexure-5 of technical enclosures for drawings of Buildings and conveyors.

SI. No.	Tender Document Description	Clause No.	Page No.	Existing Provision	Bidder's Query	Clarification by BHEL
					2. Conveyor profiles of LHP.	Further, following latest drawings of buildings and conveyors are attached for bidder's reference:  GA & LOAD DATA OF BELT CONVEYOR - 27AB  GA & LOAD DATA OF BELT CONVEYOR - 30AB  GA & LOAD DATA OF BELT CONVEYOR - 32AB  GA & LOAD DATA OF BELT CONVEYOR - 32  GA & LOAD DATA OF BELT CONVEYOR - 33  GA & LOAD DATA OF BELT CONVEYOR - 31B  GA OF TP-22 WITH LOAD DATA  GA OF TP-23 WITH LOAD DATA  GA OF TP-24 WITH LOAD DATA  GA OF TP-25 WITH LOAD DATA  GA OF TP-26 WITH LOAD DATA  GA OF TP-27 WITH LOAD DATA  GA OF TP-27 WITH LOAD DATA  GA & LOAD DATA OF BELT CONVEYOR - 25AB (CAT-II).  GA & LOAD DATA OF BELT CONVEYOR - 26AB (CAT-II).  GA OF COAL CRUSHER HOUSE WITH LOAD DATA  (CAT-II)  GA OF GYPSUM STORAGE SHED WITH LOAD DATA

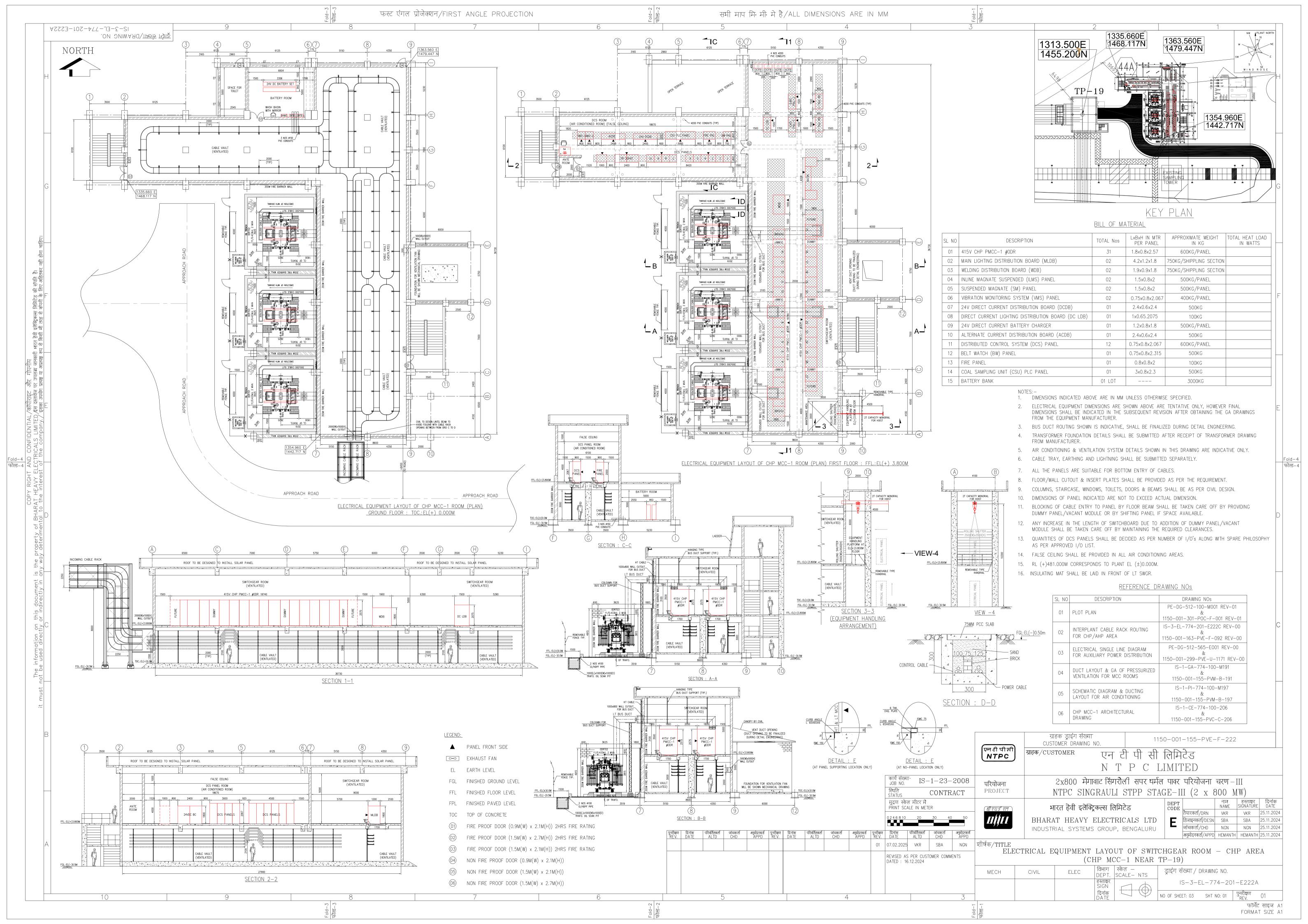
Dust Suppression and Water Systems Package for NTPC Singrauli STPP Stage-III (2x800MW), Uttar Pradesh BHEL Tender ref. No. 77/24/6170/BPA

SI. No.	Tender Document Description	Clause No.	Page No.	Existing Provision	Bidder's Query	Clarification by BHEL
	Document					STOCKPILE LAYOUT & CIVIL INPUTS FOR STACKER CUM RECLAIMER MACHINE (CAT-II) GA & LOAD DATA OF BELT CONVEYOR - 28AB (CAT-II)
						Bidder to refer LHP flow diagram and plot plan (Annexure-3) for details pertaining to LHP. Profiles will be furnished to successful bidder after placement of order

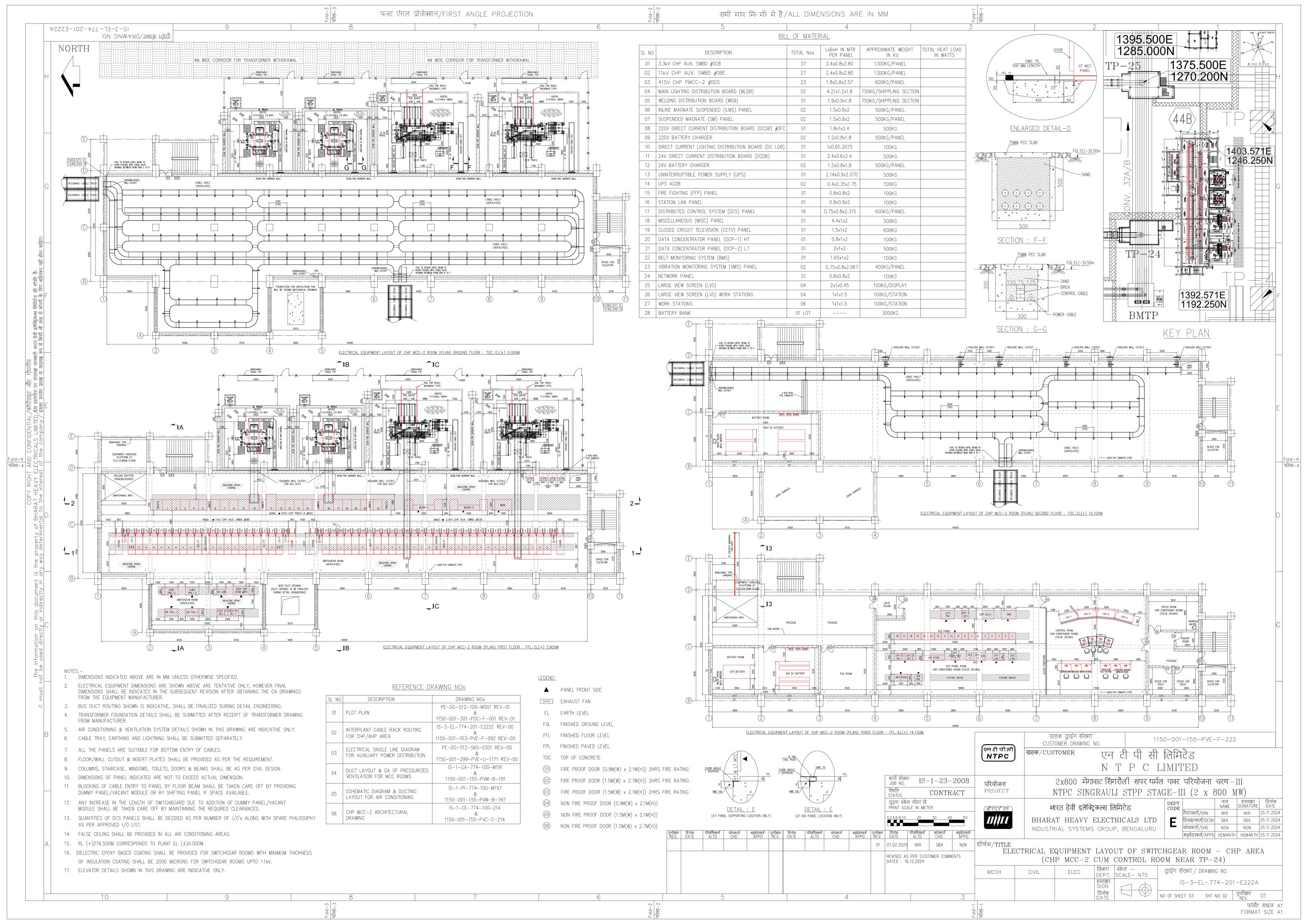
Kindly download the latest building/conveyor drawings from the below mentioned wrench link:

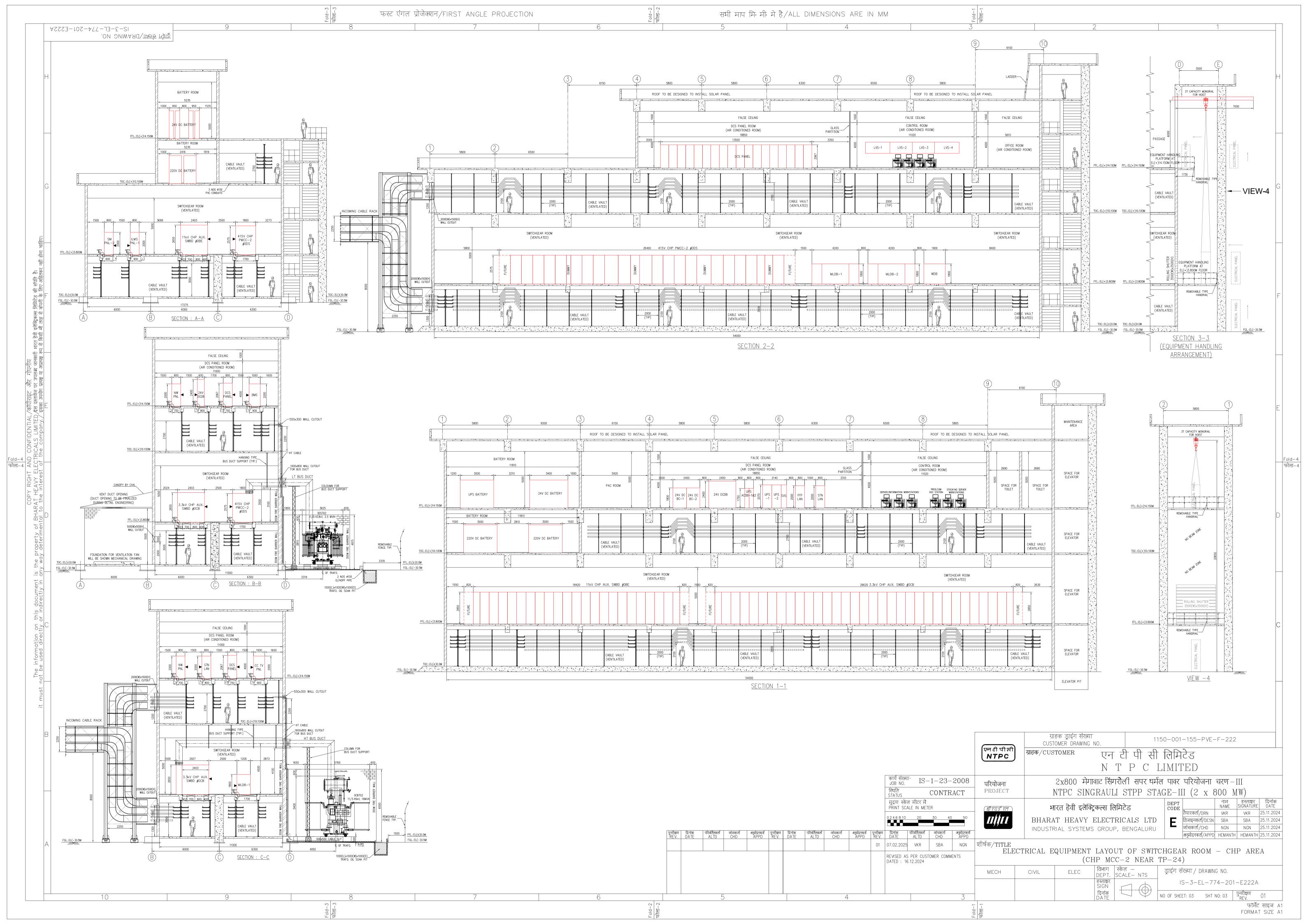
https://isgdms.bhel.in/isgdms/Guest/DownloadDocs?token=S5xDXnJ0W0ysBsCeg78HjKLWVcrb2ZrmTMbaBlaguiFKdrmj2H%2fkECyrbJd1JIAMAQCqOgoEOD3o4hidvXHKsn7UlkYidP0mN3fQillaBjM%3d

# ELECTRICAL EQUIPMENT LAYOUT FOR CHP MCC-1 NEAR TP-19



# ELECTRICAL EQUIPMENT LAYOUT FOR **CHP MCC-2** CUM CONTROL ROOM NEAR TP-24





USTON	MER : NTPC LIMITED						
RAWIN	NG TITLE : ELECTRICAL EQU	IPMENT LAYOU	IT OF SWITCHGEAR	ROOM COM	IBINED FOR	CHP MCC-3 & AHP MCC-2 (NEAR TP-21)	
USTON	MER DRAWING No : 1150-0	01-155-PVE-F-2					
SL NO	DRAWING / DOCUMENT No	OLD REV No	CLIENT's APPROVAL CAT	NEW REV No	SL NO	NTPC COMMENTS DATED : 16.12.2024	BHEL REPLY DATED : 03-02-2025
				Com	ments on do	ocument no: 1150-001-155-PVE-F-222A, SHT NO 04 OF 04	
						storage tanks. This is in line with TEAMS meeting with BHEL dated 04.12.2024	This drawing has been submitted with separate drawing No: 1150-001-155-PVE-F-222A, ELECTRICAL EQUIPMENT LAYOUT OF SWITCHGEAR ROOM COMBINED FOR CHP MCC-3 & AHP MCC-2 (NEAR TP-21) Earlier location of CHP MCC-3 near Lime Silo had to relocated to accommodate FO tanks as discussed with NTPC & PEM. Hence, the CHP loads are now relocated based on the nearest MCC building. LHP-GHP MCC is located inside ESP CR building Unit-9 and CHP loads related to DSPH and Bunker are located in the combined MCC building near TP-21
					62	shall be provided as per provision indicated in tech	Noted.
					63	ventilation System, Fire detection & Protection System  etc has not been submitted & finalised BHFL to ensure	Noted. Electrical layout prepared based on preliminary inputs available. The details of bought out items like Air conditioning, ventilation, fired detection etc. will be updated as and when equipment details are receive from vendor.
					64	shall be provided as per provision indicated in tech	Noted.
					66	shall be provided as per provision indicated in tech	Noted.
					67	Explain bus duct connections	Incorporated in the revised drawing.
					69	Typ. Comment: All related mechanical drawings (pertaining to Air conditioning syste\Ventilation System	Noted & Drawing no mentioned in table under "reference drawing list"
				_	71	& ventilation system	Noted.
					72	Refer the comments on the sheet -1	Noted
					73	the same shall be finalised during detailed as per tech specification. Include the list of related drawings in the	Noted & Drawing no mentioned in table under "reference drawing list"

