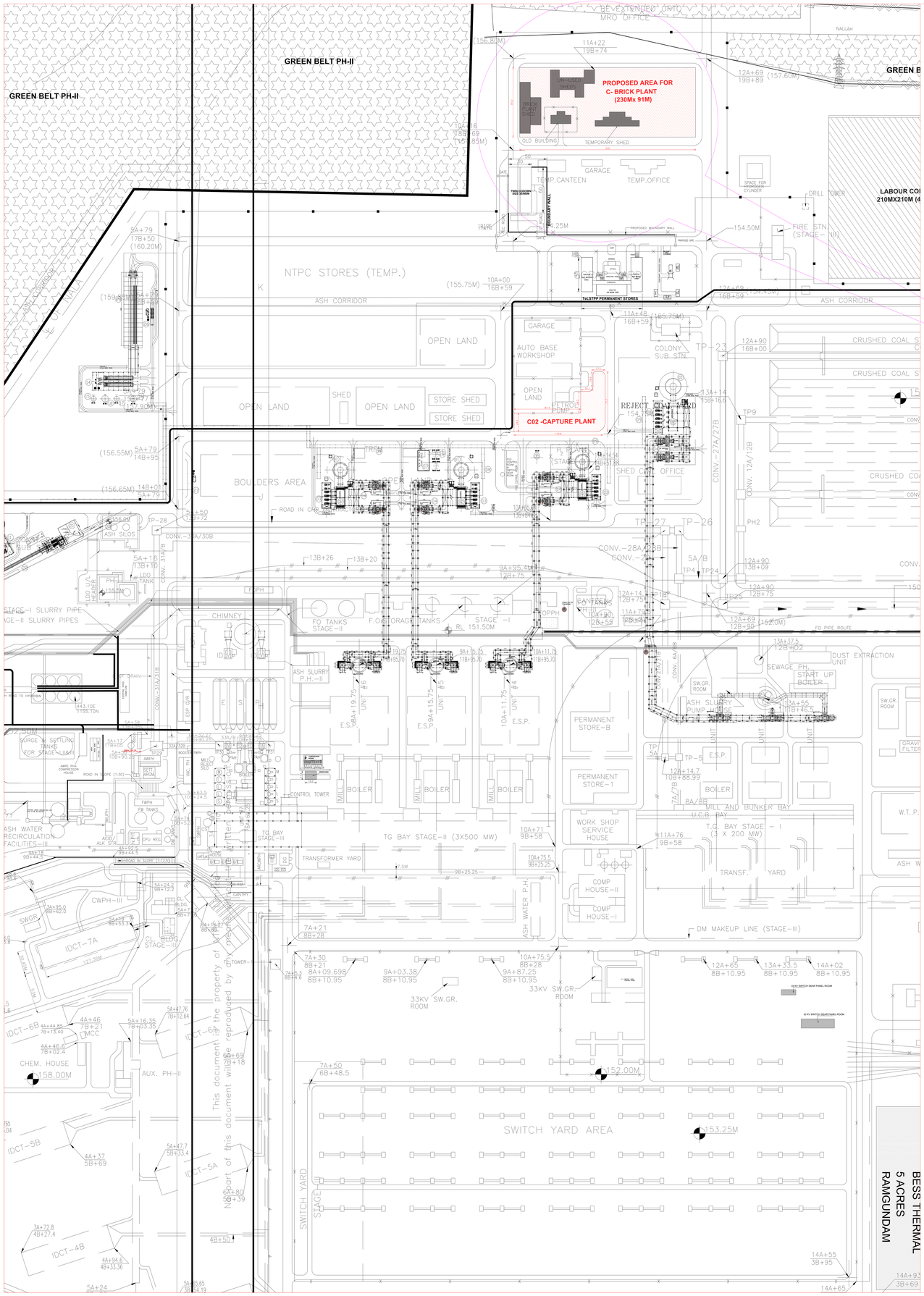
Carbonated Fly Ash Brick (C-Brick) Plant of 2 Lakh per Day Capacity at NTPC Ramagundam

Bidding Document No: CS-3100-702-9 GEPNIC Tender Ref. No: 2025_NTPC_98848_1

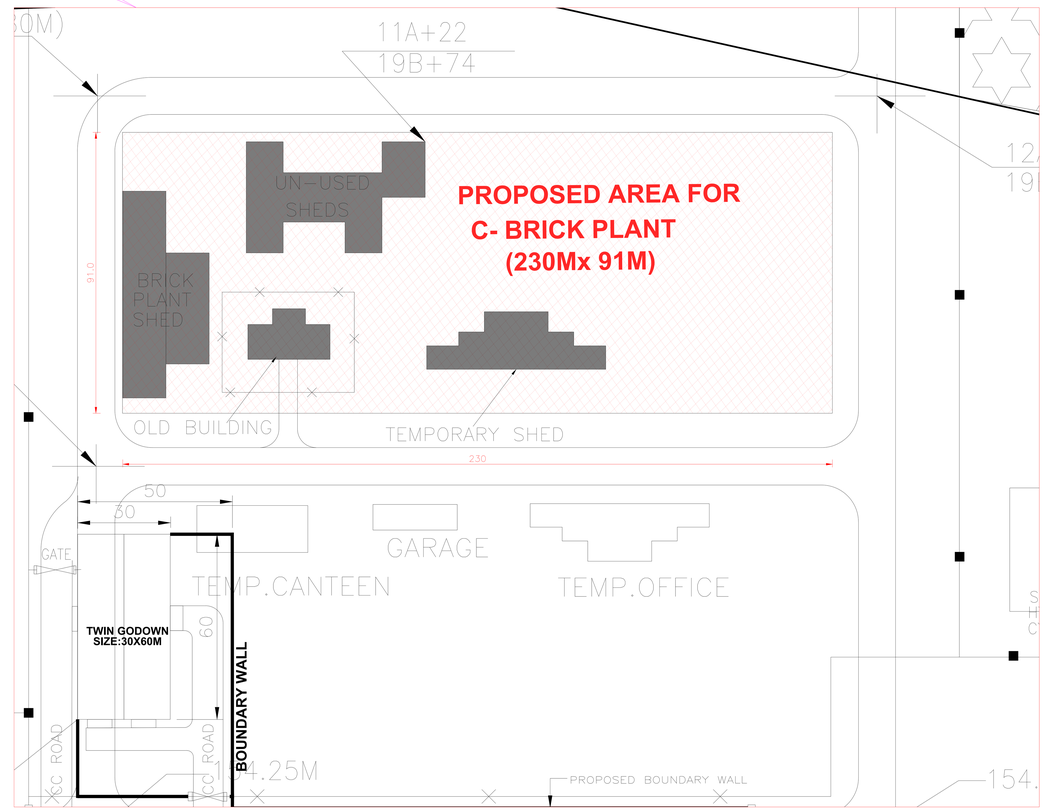
Amendment No 01 to Technical Specification (Section-VI)

Sr.No.	SPECIFICATION REFERENCE				EXISTING	READ AS
	Sect/Part	**Sub Section**	**Page No**	**Clause No**		
1	Section -VI	H- Civil Requirements	(Page 103 of 115)	Design & standard Clause 6	Wind Resistant Design: All structures shall be designed for wind forces in accordance with IS:875 (Part-3). The damping factor (as a percentage of critical damping) to be adopted shall not be more than following: (i) Welded Steel structures-1%, (i) Bolted Steel structures2%, (iii) Reinforced Concrete structures-1.6%. The basic wind speed shall be considered as 50 m/s.	Wind Resistant Design: All structures shall be designed for wind forces in accordance with IS:875 (Part-3). The damping factor (as a percentage of critical damping) to be adopted shall not be more than following: (i) Welded Steel structures-1%, (i) Bolted Steel structures2%, (iii) Reinforced Concrete structures-1.6%.
2	Section-VI	C- Drawings & Terminal Points	(Page 11 of 115)	C.1. Plot Plan:	Plot plan for CO2 Capture Plan (Plot-A) and C-Brick Plant (Plot-B)	Revised plot plan marked in GLP enclosed with (i) terminal points of utilities and, (ii) details of buildings to be demolished.
3	Section-VI	A- Project Information	(Page 3 of 115)	A3: Scope of Work: Clause No 8	As required and with express approval of NTPC, dismantling / demolition of existing structure at site earmarked as Area-A (CO2 Capture, Compression, and Storage Block and Area-B (C-Brick Manufacturing Block) alongside area clearance, transport and handing over of dismantled material to NTPC (within plant premises), site levelling and grading, cleaning of vegetation (including statutory clearance, if required) shall be in the scope of bidder.	As required and with express approval of NTPC, dismantling / demolition of existing structure **including substructure** at site earmarked as Area-A (CO2 Capture, Compression, and Storage Block and Area-B (C-Brick Manufacturing Block) alongside area clearance, transport and handing over of dismantled material to NTPC (within plant premises), site levelling and grading, cleaning of vegetation (including statutory clearance, if required) shall be in the scope of bidder.
4	Section-VI	F- Electrical	(page 46-47	Clause No. 7	Rated system voltage (Um) 420 kV (rms)	Rated system voltage (Um) 11 kV (rms)

		Requirements	of 115)	Instrument Transformer	CT in 400kV GIS shall be min. 6 core & as per switchyard protection scheme.	CT in 400kV GIS shall be min. 6 core & as per switchyard protection scheme- Deleted
5	Section-VI	F- Electrical Requirements	(page 46-47 of 115)	Clause No 8 Surge Arrestor	Surge Arrestor	Deleted
6	Section-VI	F- Electrical Requirements	(page 77 of 115)	Clause No. 24 DC System	Complete DC system, comprising of batteries, battery charges, relays, contactors, timers etc. shall be suitable for continuous operation at the maximum continuous float voltage including suitable temperature correction factors. The battery sizing shall be done based on different types of continuous and intermittent loads including motor starting (wherever applicable) under complete blackout condition, for the duration specified so as to meet the system requirement (30 minutes minimum). 100AH for Ni-Cd High Discharge (KPH) type batteries, 220V DC System, Supply total DC load of the associated area at an acceptable voltage.	Para 1 of S.No 24 Deleted. However, Vendor to lay cable from FGD DCDB to the 6.6kV switchgear for protection. UPS with battery bank to be provided for C&I part



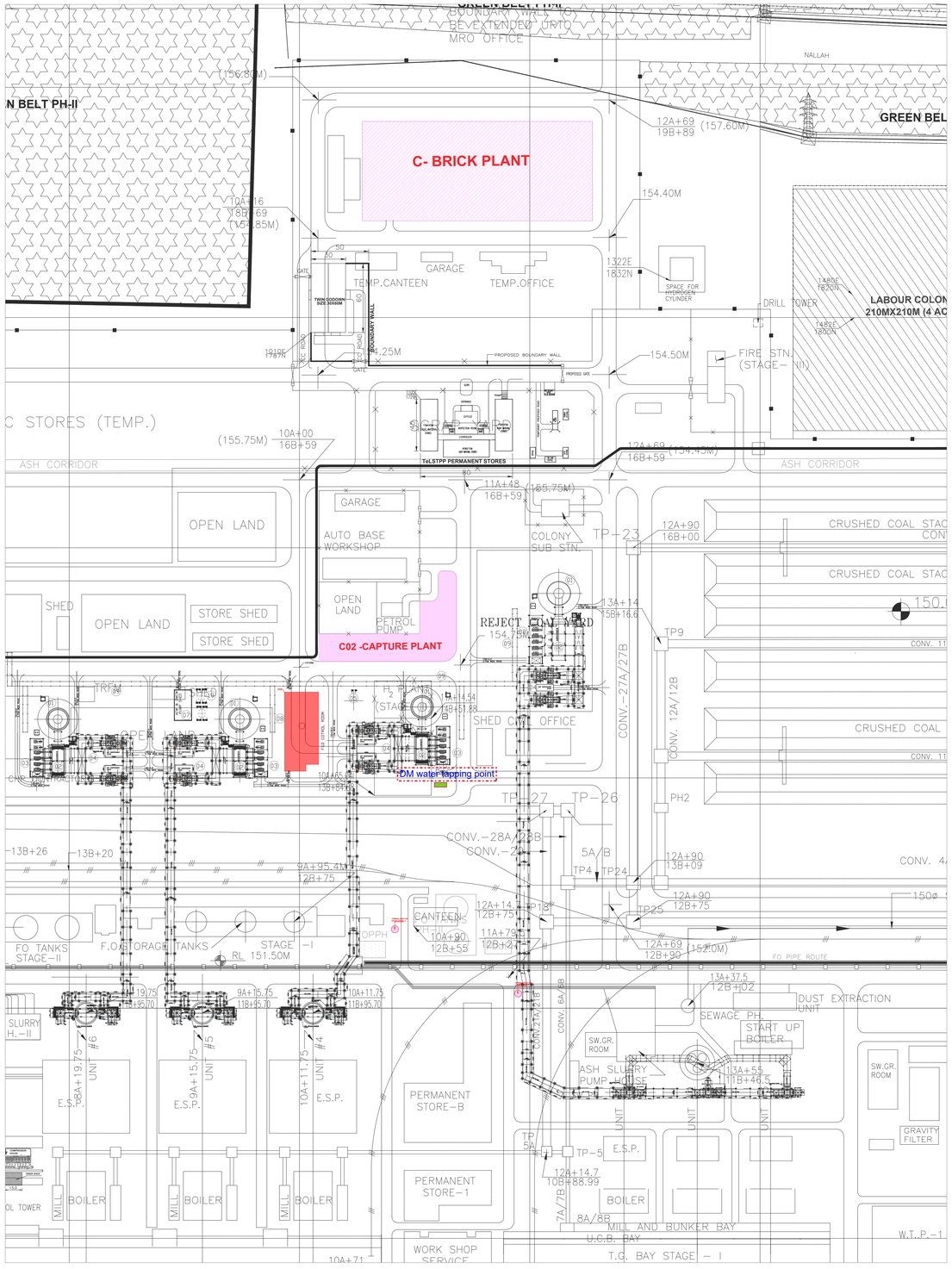
PROPOSED AREA FOR C-BRICK PLANT



NOTE:
EXISTING BRICK PLANT AND EXISTING SHEDS AS TO BE DISMANTLED.

NAME OF THE SHED/BUILDING	AREA (APPORX.)	HEIGHT (APPROX.)
1.BRICK PLANT SHED	1442.00 M^2	5M
2.UN USED SHED	1316.00 M^2	5M
3.OLD BUILDING	355.37 M^2	5M
4.TEMPORARY SHED	744.00 M^2	5M

ANNEXURE-I


C- BRICK PLANT
C02 -CAPTURE PLANT
DM water topping point
GREEN BELT PH-II
GREEN BEL
MRO OFFICE
NALLAH
GARAGE
TEMP.CANTEEN
TEMP.OFFICE
SPACE FOR HYDROGEN CYLINDER
DRILL TOWER
LABOUR COLON
210MX210M (4 AC
FIRE STN. (STAGE– III)
C STORES (TEMP.)
ASH CORRIDOR
T&LSTPP PERMANENT STORES
OPEN LAND
AUTO BASE WORKSHOP
STORE SHED
SHED
PETROL PUMP
COLONY SUB STN.
REJECT COAL YARD
CRUSHED COAL STAC
CRUSHED COAL
CONV. 27A/27B
CONV. 12A/12B
SHED OPT OFFICE
TP–23
TP9
TP–27
TP–26
PH2
CANTEEN
FO TANKS STAGE–II
F.O.STORAGE TANKS
STAGE – I
RL 151.50M
FO PIPE ROUTE
DUST EXTRACTION UNIT
SEWAGE PH.
START UP BOILER
SW.GR. ROOM
ASH SLURRY PUMP HOUSE
GRAVITY FILTER
E.S.P.
UNIT #6
UNIT #5
UNIT #4
PERMANENT STORE–B
PERMANENT STORE–1
BOILER
MILL
MILL AND BUNKER BAY
U.C.B. BAY
T.G. BAY STAGE – I
WORK SHOP SERVICE
W.T.P.–1
SLURRY H.–II
OL TOWER