

SYAMA PRASAD MOOKERJEE PORT,KOLKATA
Erstwhile KOLKATA PORT TRUST
HALDIA DOCK COMPLEX

Tender No. SDM (P&E)/T/ 62 /2019-2020

E-Tender No. 2020_KoPT_552403_1

FOR

Supply, Installation, Testing and Commissioning of 11kV/3.3kV/415V Panel along with allied works for augmentation of GC Berth Sub-station including construction of sub-station building at GC Berth area of Haldia Dock Complex, SMP, Kolkata.

ADDENDUM - IV

CORRECTIONS / ADDITIONS / DELETIONS, ETC.

[Total Number of Pages : 25]

NOTE :

1. This “Addendum-IV” should be read in conjunction with Bidding Document (including Notice Inviting e-Tender).
2. Consequential changes, arising out of this Addendum-IV, will be deemed to have been effected, even if the same were not incorporated specifically in the Bidding Document.
3. All other terms and conditions of the Bidding Document (including Notice Inviting e-Tender) will remain unchanged.

Addendum –IV

Tender No. SDM (P&E)/T/ 62 /2019-2020

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Sl. No.	Page No.	Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
1.	18	5.15.1	Bids shall remain valid for the period of 120 days after the bid submission deadline date (considering extension thereof, if any) as prescribed in ITB . A bid, valid for a shorter period, shall be rejected by SMP Kolkata , treating the same as non-responsive.	Bids shall remain valid for the period of 180 days after the bid submission deadline date (considering extension thereof, if any) as prescribed in ITB . A bid, valid for a shorter period, shall be rejected by SMP Kolkata , treating the same as non-responsive.
2.	67	2.0 Scope of work (c)	Equipment installation layout shall be submitted by the contractor before erection of equipment at site after approval by HDC, SMP Kolkata. Contractor shall arrange for all necessary means for erection / installation equipments as per manufacturer's guidelines.	Equipment installation layout, SLD of HT/LT panels, Cable schedule shall be submitted by the contractor before erection of equipment at site after approval by HDC, SMP Kolkata. Contractor shall arrange for all necessary means for erection / installation equipments as per manufacturer's guidelines.
3.	155	Part B Wiring and electrification of sub-station. Item No.1	Building dimension (35x12x8) Mtrs. Ground floor (35x12x6) Mtrs.1 st Floor	Building dimension (31.5 x 14.5 x 8) Mtrs. -Ground floor (31.5 x 14.5 x 6) Mtrs.-1 st Floor
4.			Makes of pipes, valves & Sanitary- CP items	Any reputed make.

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5.		3.5 (ii)	The intending bidders must deposit Rs 17,57,015.00 (Indian Rupees: Seventeen lakh fifty seven thousand fifteen) only, as Earnest Money, to Haldia Dock Complex, through DD/Banker Cheque in favour of Syama Prasad Mookerjee Port, Kolkata on any Scheduled/Nationalized Bank payable at Haldia, otherwise their offer will be summarily rejected. Copy of the DD/Banker's Cheque should be uploaded. In case the said Earnest Money is not deposited by the bidder, the respective bid will be summarily rejected, treating the same as non-responsive. NOTE :: For exemption of Bid Document Fee and EMD to upload the scanned copy of the certificate from MSME / Micro & Small Enterprises (MSEs) / DIC / SSI / National Small Industries Corporation (NSIC) or any empowered Central / State Govt. authority is required in electronic format. (ii) Earnest money and cost of tender document are to be physically deposited at the office of Tendering Authority (Sr. Dy. Manager [P&E Div.], 1st floor Jawahar Tower, Haldia Dock Complex, Haldia, PIN 721607), separately in a single sealed envelope, mentioning Tender no. with proper marking. Demand Draft /Banker's Cheque against	The intending bidders must deposit Rs 17,57,015.00 (Indian Rupees: Seventeen lakh fifty seven thousand fifteen) only, as Earnest Money, to Haldia Dock Complex, through DD/Banker Cheque in favour of Syama Prasad Mookerjee Port, Kolkata on any Scheduled/Nationalized Bank payable at Haldia, otherwise their offer will be summarily rejected. Alternately the intending bidder may deposit an amount of Rs.10,00,000.00 through DD/Banker Cheque in favour of Syama Prasad Mookerjee Port, Kolkata on any Scheduled/Nationalized Bank payable at Haldia, and the balance amount of Rs 7,57,015.00 in the form of Bank Guarantee valid for 180days with a further claim period of three(3) months. Copy of the DD/Banker's Cheque/Bank Guarantee should be uploaded. In case the said Earnest Money is not deposited by the bidder, the respective bid will be summarily rejected, treating the same as non-responsive. Account details of HDC, SMP Kolkata for purpose of Bank Guarantee is indicated below. Account No.: -1604050000064 Name: -HALDIA DOCK COMPLEX IFSC Code: -UTBIOHDCF75 MICR Code: -721027006 NOTE :: For exemption of Bid Document Fee and EMD to upload the

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			Earnest money and cost of tender document, should be submitted/deposited on any scheduled/ nationalized Bank, by the bidder in favour of Syama Prasad Mookerjee Port, Kolkata payable at Haldia before opening of the tender, as specified in the Tender Document.	scanned copy of the certificate from MSME / Micro & Small Enterprises (MSEs) / DIC / SSI / National Small Industries Corporation (NSIC) or any empowered Central / State Govt. authority is required in electronic format. (ii) Earnest money and cost of tender document are to be physically deposited at the office of Tendering Authority (Sr. Dy. Manager [P&E Div.], 1st floor Jawahar Tower, Haldia Dock Complex, Haldia, PIN 721607), separately in a single sealed envelope, mentioning Tender no. with proper marking. Demand Draft /Banker's Cheque/ Bank Guarantee against Earnest money and cost of tender document, should be submitted/deposited on any scheduled/ nationalized Bank, by the bidder in favour of Syama Prasad Mookerjee Port, Kolkata payable at Haldia before opening of the tender, as specified in the Tender Document.
6.	113, 115	Clause 5 Technical specification	LT Bus Duct A) Electrical Design i) Electric power supply - 415 V, 3 phase 50 Hz system neutral solidly grounded - System short circuit level as specified. F) Technical particulars for Design Rated system voltage and frequency 415V	LT Bus Duct A) Electrical Design i) Electric power supply - 433 V, 3 phase 50 Hz system neutral solidly grounded - System short circuit level as specified. F) Technical particulars for Design Rated system voltage 433V
7.	152	BOQ item No.15	1600Amps,1.1kVgrade Copper Bus duct:- Supply of 1600Amps, 1.1kV grade, Copper Bus duct	1600Amps,1.1kVgrade Copper Bus duct:-

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			with IP55 Enclosure. Supply of Bus ducts QTY-3 Sets. Installation, testing and commissioning QTY-3sets.	ITEM STANDS DELETED.
8.				<u>APFC Panel:-</u> Specification of APFC Panel Design, manufacturing, supply, installation, Testing and commissioning of APFC Panel of 200kVAr 12 stages as per following specification: - <u>General</u> The 440V APFC Panel shall be metal clad, indoor type floor mounted in Non drawout execution. Fabricated from Sheet steel shall be CRCA of minimum 2.0 mm thickness. Incomer Circuit breaker (MCCB) shall be mounted in a separate compartment and Metering compartment along with APFC Relay etc shall be separate. The position of various control switches, push buttons, louvers etc. requiring manual operation. The operational Height of Panel shall be at a height not less than 300mm and shall not exceed 1850mm from the finished floor level. Name plate for each incoming and outgoing feeder at front. All equipments of similar rating shall be interchangeable. Insulation Level Rated insulation voltage 1100 V One minute power frequency withstand voltage: 2.5 kV for power circuits 2 kV for control circuits Clearance in air (minimum) : Phase to phase - 25 mm Phase to earth - 19.0 mm

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				Short Circuit Strength Rated short time withstand current not less than 50kA for 1sec. Busbars made of EC grade aluminium alloy equivalent to E91E WP as per IS 5082, 1981, size adequate for specified rated continuous and SC current. Three phase, neutral (with at least 50% rating of main buses) and continuous earth bus. Bus bar shall be provided with proper grade & colour of heat shrinkable sleeve. Rating of horizontal buses shall be same as that of incomer circuit breakers and vertical run shall be same as that of outgoing breaker rating Temperature rise of bus bars shall not be more than 40 deg. C above an ambient of 50 deg. C. Construction Features (Mechanical Design) Sheet steel clad, floor mounted, free standing design, non-dust proof construction Extension bus links properly spaced for terminating single cables of required size and above as well as for terminating multiple cables of all sizes. The interior of the switchboard shall be finished with OFF WHITE (RAL 7032) paint shade. All panels shall be supplied with base channels. The IP Protection for enclosure shall be IP52 or better. Necessary Louvers along with cooling fans shall be provided in the panel to ensure the cooling of Panels at the time of exercitation of Capacitor Banks and Contactors. <u>Incomer Circuit Breaker (MCCB)</u> 01. Electrical Features Air break triple pole MCCB of required

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				size and in conforming to IS 13947. Rated continuous current as specified. Symmetrical service breaking capacity of breaker shall not be less than 35kA. Making capacity 2.5 times breaking capacity. Adjustable Over Load and Short Circuit protection 02. Operating Mechanism Manual operated quick make and break trip free mechanism as to ensure high speed closing and tripping independent of the operating forces. Mechanical indication to show: Breaker ON/OFF/TRIP <u>Outgoing Feeders</u> Each Out going feeder shall be provided with required rating of MCCB, Contactor along with the necessary fuses etc , Capacitor Banks along with on/off Push Button and on/off LED Indicating Lights as per following specification :- 01. Air break triple pole MCCB conforming to IS 13947 of adequate continuous current rating as specified. Symmetrical breaking capacity not 35KA. 02. Capacitor Switching Contactors All Capacitor Banks shall be controlled by power contactors, which shall on/off the Capacitor Bank, accordingly these contactors should be suitable to handle the inrush current of capacitor Banks. 03. Capacitor Bank Capacitor Banks shall be suitable for operation at 440V Three phases. The type of capacitor banks shall be self healing MPP type Heavy duty as per IS: 13340-1993 and shall be housed in sheet steel container to ensure the explosion free design. The external discharge resistors shall also be provided. Capacitor Banks shall be suitable for Overloading as 115% for Over Current and 110% for Over Voltage. The Watt Loss

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				shall not be less than 0.5w/kVAr. <u>Protections:</u> Combined lightning and surge protection device for three phase should be connected parallel to the output for providing safety from all types of possible surges. The device should safely handle 10/350 surges of 7KA per pole and 8/20 surges of 35KA per pole. <u>Control Terminations</u> 650V grade multiway terminal blocks of non-tracking moulded plastic complete with insulated barriers, stud type terminals, washers, nuts and lock nuts and identification strips. Power and control terminals segregated. Control terminals of minimum rating 10 amps suitable to receive 2.5 sq. mm copper conductor. 20% spare terminals in each control terminal block. Measurements and Control A Digital Multi function meter shall be provided in Incomer feeders to measure and display the following parameters along with APFC Relay of required stages as specified as per following specification <u>APFC Relay</u> The APFC Relay shall be suitable for operation at 415V Power and Auxiliary both and 5A as current measurement. The Relay shall be of 12 stages to improve the P.F at least 0.98. The relay shall be microprocessor based with self diagnostic and setting including C/K ratio.

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9			Tentative lay out:- 12 Panels					Tentative lay out:- i.) 14 Panels (12 Panels as per existing layout & balance 2Panels [Transformer Outgoing-1No. & Outgoing-01No.]).				
10	68	2	Scope of work:- Part-II (Electrical Works):-					(d) Electrical Drawings :- Submission of following drawings for approval by Engineer:- i) Typical Layout for New Substation ii) Typical Section for New Substation iii) Typical Single Line Diagram for New Sub-Station iv) Cable schedule v) Building Wiring and illumination layout. vi) Submission of equipment GA, Datasheet, QAP, Catalogue etc. vii) Earth pit and Earthing layout.				
11	153	Item No.22 (i)	Cable Tray and support structure:-					Cable Tray and support structure:-				
			Supply of GI ladder type Cable Tray 450mm	Unit	Qty	Rate per unit(in Rs.) (Excluding GST)	Amount (In Rs.)	Supply of GI ladder type Cable Tray 450mm	Unit	Qty	Rate per unit(in Rs.) (Excluding GST)	Amount (In Rs.)
				Mtrs.	350	845.00	2,95,750.00		Mtrs.	350.6929	845.00	2,96,335.00
12	153	Item No.18 (i) & (ii)	LT Aluminium XLPE Cable:- Supply, laying and termination of 1C X630Sqmm LT aluminium XLPE cable including end terminations as per Technical specification.					1.1KV Grade LT Aluminum XLPE Cable:- Supply, laying and termination of 1C X630Sqmm LT aluminium XLPE cable including end terminations as per Technical specification.				
				Unit	Qty	Rate per unit(in Rs.) (Excluding GST)	Amount (In Rs.)		Unit	Qty	Rate per unit(in Rs.) (Excluding GST)	Amount (In Rs.)

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			i) Supply of 1C X 630Sqmm	Mtrs.	200	1050.00	2,10,000.00	i) Supply of 1C X 630Sqmm	Mtrs.	395	1050.00	4,14,750.00
			ii) Laying and termination through existing RCC trench	Mtrs.	200	117.00	23,400.00	ii) Laying and termination through existing RCC trench	Mtrs.	395	117.00	46,215.00
13	278,279		Drawings					Drawings Attached below.				
14	116	7.0	BATTERY BANK AND BATTERY CHARGER					BATTERY BANK, BATTERY CHARGER AND DCDB. Detail technical Specification attached as Annex-A.				
15	153	Item No.20	Battery charger with batteries:- Supply and Installation of Maintenance Free Lead Acid battery of 15Nos. Of 2Volts each for 30V,60AH Battery Bank with Float cum-Boast Charger as per Technical specifications.					DCDB, Battery charger with batteries:- Supply and Installation of DCDB, Maintenance Free Lead Acid battery of 15Nos. Of 2Volts each for 30V,60AH Battery Bank with Float cum-Boast Charger as per Technical specifications.				
16	129	12.0	List of Approved Makes LT Panels- SIEMENS/L&T/SCHNEIDER/ABB					List of Approved Makes LT Panels- SIEMENS/L&T/SCHNEIDER/ABB and their approved system integrators.				
17								Format of Joint bidding Agreement attached as Annex-B.				

DCDB Technical Specification.**A) Rated Voltage:**

Rated voltage for the Distribution Board and its constituent items like Switch Fuse Disconnecter unit, MCBs, busways etc. shall be single phase 2 wire D.C. 30 volts. The supply voltage may vary by $\pm 10\%$ of rated voltage. All the equipments used in the Board shall operate satisfactorily at this voltage variation.

B) General Requirements:

Each Distribution Board shall be free standing floor mounted having compact design. The Board shall be closed, dust protected, weather proof and shall be made vermin proof with a special type lining e.g. Neoprene gasket, around the edges of the doors. The distribution board shall comply degree of protection IP 43. MCBs shall be operating vertically upward for ON/OFF operation. The entire distribution board shall have uniform finish and shall be sturdy. The distribution boards shall be of modular construction with provision for complete compartmentalisation of all feeders. It shall be free-standing, dead front type comprising dust-tight and vermin proof sheet steel cabinets suitable for indoor installation. The doors of cabinets shall be lockable. Handle shall be made of reputed make. The DB shall be provided with double door in front having 2 nos. hinges which should be suitable for movement of 120 degree and 2 no. knobs to be provided on the door corners. All instruments and control devices shall be mounted on the front of cabinets and fully wired to the terminal blocks. All switches provided on the distribution board shall be on front side of the cabinets, operable from outside.

Each Distribution Board shall be made out of at least 2.0 mm thick cold rolled steel sheet, suitably reinforced to provide flat level surface. Size 1000(H) x 750(W) x 300(D) mm. Gland plate shall be 3.0mm thick. No welds, rivets, hinges or bolts shall be visible from outside. The doors shall be fitted with double leaf neoprene rubber gaskets.

All cables shall enter and leave from bottom. Suitable cable terminal blocks with cable lugs shall be provided inside each cabinet for the incoming and outgoing cables. The terminals shall be serially numbered to facilitate installation and maintenance. Main busbars shall be accommodated in busbar chambers and cable alleys arranged by their side. Compression type cable glands shall be provided to hold the cables to avoid any pressure or tension on the terminal block connections. The terminal blocks shall be easily accessible for inspection and checking. Panels shall have cable supports and metallic clips for supporting power and control cables for internal wiring of the panels.

The DC Distribution Board shall have double bus arrangement with change over switch. The Distribution Board shall have provision for one set of +ve and -ve connected to Charger-1 and another set of +ve and -ve connected to Charger-2. Each busbars shall consist of tinned electrolytic copper of cross-sectional area of a minimum of 25mm x 3mm, suitable for carrying their rated continuous current without their temperature

exceeding 85 deg C. The busbars shall be continuous throughout each section. The busbars shall have current rating to suit the requirements corresponding to the loads incident thereon under the various operating conditions and shall withstand the applicable voltage and maximum short circuit stress. The busbars shall be insulated from supporting structure by means of durable non-hygroscopic, non-combustible and non-tracking polyester fibreglass material or porcelain. Busbars shall be encased in heat-shrunk sleeves of insulating material which shall be suitable for the operating temperature of busbars during normal service. The busbar joints shall be provided with removable thermosetting plastic shrouds. The busbars shall be housed in totally enclosed busbar chambers. The incoming connections from the busbar to the various feeders shall be so designed as not to disturb cable connections and to ensure safety to the operating and maintenance personnel and to facilitate working outside any outgoing module without the need for switching off in-feed to the adjacent modules, as far as possible. The busbars shall be of high conductivity, adequate uniform cross section and current density shall not be more than 1.6 Amp/sq. Mm. A cable alley preferably 230 mm wide shall be provided in each vertical section for taking cables into the compartments.

All doors shall be provided with mechanical interlocking arrangements along with keys. The distribution board shall have no door on rear side.

Danger board (Caution Plate) shall be fitted suitably on inner door of the DB.

The DC boards shall be provided with the following equipments wherever applicable:

- i. Double bus arrangement with change over switch with provision for one set of +ve and -ve connected to Charger-1 and another set of +ve and -ve connected to Charger-2. Each busbars shall consist of tinned electrolytic copper of cross-sectional area of a minimum of 25mm x 3mm.
- ii. Terminal arrangement with necessary equipment for connecting the incoming supply.
- iii. Voltage and current measurement in the incomer feeder.
- iv. Outgoing modules with switch / MCB units of adequate capacity for the outgoing feeders and 20% spare feeder units of each rating.
- v. Necessary cable glands and terminal blocks.
- vi. Adequate number of spare terminals on terminal blocks for receiving connections for external connections.
- vii. The number of outgoing feeders from DC boards shall be such that each substation equipment is fed by separate feeder with 20% as spare.

The ventilating louvers should be covered from inside by a perforated sheet.

All sheet metal used for DB shall undergo seven tank mechanical/ chemical cleaning process & painting shall be done using powder coating process. Colour of the Paint shall be admiral gray as per shade no. 632 of IS 5 on exterior and white from interior sides.

C) MAJOR COMPONENTS:

Incoming cables for DCDB shall be terminated on terminal connectors provided at the bottom. Connection between incomer terminals and MCBs shall be with 50 sq. mm copper cable. Outgoing shall be connected with 35 sq. mm copper cable.

For all 32 A rated MCBs, 16 sq. mm. stranded cable shall be used. For all 16A rated MCBs, 10 sq. mm. stranded cable shall be used. DCDB should have 2 sets of Bus Bars in Two separate compartments to facilitate termination of Incomers from two sets of Battery and Chargers. One Change over switch should be provided to facilitate DC supply to outgoing load circuit in the event of failure of anyone of the battery/ Charger. The change over switch should be 2 way 2 position for changing over of both incomer individually.

I. Incoming circuit: Two double pole MCBs of 63 Amps capacity shall act as Incoming breaker of load bus. Change over switch of 63 Amps DP is to be provided. Incoming cable for incomer **LT XLPE, 2 C, 120 sq. mm Copper cable** shall be provided.

II. Outgoing Circuits:

Sr. No.	Feeder Rating	Cable size	Source-1	Source-2
1.	Double pole DC MCB 32A,250 V	2 core 16 sq. mm LT PVC cable	04 nos.	04 nos.
2.	DP 16 A MCBs, 250 V	2 core 10 sq. mm LT PVC cable	08 nos.	08 nos.

Total 24 Nos. outgoing circuits shall be provided as per the details given below.

MCB:-

MCBs shall comply following specifications as per IS 8828/1996.

- Rated voltage & freq. shall be 240V & 50 Hz respectively for DP MCBs.
- Rated current shall be 32A/16 A as mentioned above.
- Rated short circuit capacity shall be min. 6 KA at 0.7 p.f. lag
- Service short circuit capacity shall be 6KA as per table 15 of IS: 8828 /1996.
- MCBs shall have fixed un adjustable time / current characteristics.
- Under voltage release and shunt-trip release coils are not required. Only overload release and short circuit release shall be provided.
- Tripping time shall be as per (clause No. 8.6.1) table 6 of IS: 8828 /1996. Tripping mechanism thermal magnetic type.
- MCBs having precision moulded case and cover of flame retardant high strength thermo plastic material with high melting point, low water absorption, high dielectric strength and temperature with stand capacity shall be capable of carrying out given no. of operation cycles as per clause No. 9.11 of IS: 8828 /1996.
- Limits of temperature rise shall be as per (clause No. 9.8) table 5 of IS: 8828/1996.
- Standard range of instantaneous tripping shall be type 'B' as per (clause No.5.3.5) table 2 of IS: 8828 /1996.

All MCB outgoing terminals shall be terminated on terminal connectors of 10 mm. stud type provided at the bottom.

The enclosure shall be provided with proper earthing arrangement. Earthing arrangement shall consist of 2 G.I. Bolts of 12 mm x 50mm (min.) with 2 spring/ plain washers and 2 check nuts.

PVC cable glands of adequate size shall be provided for all incoming and out going cables.

The moving contacts of all poles of multi-pole circuit breaker shall be so mechanically coupled that all poles, except the switched neutral, if any, make and break substantially together.

Whether operated manually or automatically even if an overload occurs on one protected pole only. Both side terminal should be suitable for direct cabling as well as bus bar connection and should take wire up to cross section area of 25 sq.mm.

Detailed specification is tabulated below:-

Standard	IS:8828:96 & IEC:60898:2002
Type/Series	B&C
Rated Current(DC)	20A for SPN, 36A for DP
Rated Voltage(DC) Volt	30
Rated short circuit breaking capacity kA	10
Ambient temperature(deg C)	-5 to +55
Protection class	IP-20

III. Relay and protection:

- i. One Mains failure Alarm relay.
- ii. One Earth Fault alarm relay
- iii. One 30 Volt DC Bell to be operated by the Mains failure alarm relay.
- iv. One 30 volt DC Buzzer to be operated by the earth fault alarm relay.

IV.AC/DC Change Over Contacts

Emergency lighting circuit shall be provided by the Bidder such that the lights normally burn on AC 240 Volts, 50 Hz but in case of failure of AC supply, these come up on DC supply with the help of automatic change over contactors and again change over to AC supply with the restoration of AC supply. There shall be two number double pole ON/OFF switches with HRC fuses one each for AC and DC supply.

V. Indicating Instruments:

D.C Ammeter: Ammeter shall comply the following requirements

Class of accuracy	1.0
Range	15 Amps
Mounting	Flush type
Size	96 x 96mm
Type	Analog

D.C Volt Meter: Voltmeter shall comply the following requirements

Class of accuracy	1.0
Mounting	Flush type
Size	96x 96 mm
Range	0-40 volts
Type	DC moving coil

VI. Indicating Lamps:

Indicating lamps shall be panel mounting type 23 mm with rear terminal connections having low wattage LEDs cluster type. Lamps shall have translucent lamp covers to diffuse lights, coloured red for 'DC ON' condition. The lamp cover shall be preferably of screw-on type, unbreakable and moulded from heat resisting fast coloured material. Conventional bulbs are not acceptable. Indication lamp should be suitable to operate on 30 V DC. Necessary wiring shall be provided accordingly.

VII. MARKING

Each compartment shall be provided with legible and indelibly marked/ engraved name plate. Name plates shall be white with black engraved letters. On top of each module, name plates with bold letters shall be provided for feeder designation. Each device shall also suitably marked for identification inside the panels. Name-plates with full and clear inscriptions shall be provided inside the panels for all isolating switches,

links, fuse blocks, test blocks and cable terminals. Every switch shall be provided with a nameplate giving its function clearly. Switches shall also have clear inscriptions for each position indication e.g. 'ON' 'OFF' etc.

VIII. Earthing Arrangements:

Two nos. Earthing studs of galvanized M.S. 25 X 6 mm shall be provided for external earth connections at the bottom. These should be complete with plain washer, spring washer, nuts etc. Earthing Bolts must be welded to prevent removal of the same from the cabinet. Flexible stranded copper connector (braided conductor) should be connected of copper equivalent 10 sq. mm. size between door and box enclosure. This flexible braided cable should be terminated using gland and proper size nut/bolts at both ends.

IX. Mounting Clamps:

The DCDB box are to be manufacture with suitable mounting arrangement on wall/steel support by means of 4 nos. 25X6 mm size clamps having hole dia. 14mm, fixed over the body

X. Gland Plate:

The removable gland plate should be provided in the lower portion of the box to accommodate all brass glands (according to requirement) for incoming and outgoing cables.

XI. Control wiring:

Each DCDB shall be furnished completely factory wired up to terminal blocks ready for external connections. All wires shall consist of 1100V grade PVC insulated flexible stranded copper wires with a cross-section of 2.5 sq. Mm suitable for switchboard wiring and complying with the requirement of relevant IS. Each wire shall bear an identifying ferrule or tag at each end or connecting point. Control cables for external connections shall consist of stranded copper wire with 1.5, 2.5, 4.0 sq. Mm or higher cross-sectional areas and shall enter the bottom. All interconnecting/outgoing control wiring shall terminate on stud type terminals on terminal blocks. The terminals shall be marked with identification numbers to facilitate connections. The terminal blocks shall be made of moulded, non-inflammable, plastic material and arranged to provided maximum accessibility for inspection and maintenance. All terminal block shall have transparent plastic cover. The terminals shall be made of hard brass and diameter of not less than 6 mm. The studs shall be securely locked within the mounting base to prevent turning. The terminal blocks shall be provided with twenty(20) percent spare terminals. The terminals shall be suitable for connections through tinned copper crimped lugs. Wiring shall be complete in all respect to ensure proper functioning of the control, protection and monitoring scheme. Each wire shall be identified at both ends with permanent markers bearing wire numbers as per wiring diagram.

TYPE TEST CERTIFICATES: MCBs & other components used in DCDB shall be fully type tested as per relevant IS and this specification.

Joint Bidding Agreement

(Refer Clause 2.1.4)

(To be executed on Stamp paper of appropriate value)

THIS JOINT BIDDING AGREEMENT is entered into on this the day of 20...

AMONGST

1. Limited, a company incorporated under the Companies Act, 1956/2013[¥] and having its registered office at (hereinafter referred to as the “**First Part**” which expression shall, unless repugnant to the context include its successors and permitted assigns)

AND

2. Limited, a company incorporated under the Companies Act, 1956/2013 and having its registered office at (hereinafter referred to as the “**Second Part**” which expression shall, unless repugnant to the context include its successors and permitted assigns)

AND

3. {..... Limited, a company incorporated under the Companies Act, 1956/2013 and having its registered office at (hereinafter referred to as the “**Third Part**” which expression shall, unless repugnant to the context include its successors and permitted assigns)}

AND

4. {..... Limited, a company incorporated under the Companies Act, 1956/2013 and having its registered office at (hereinafter referred to as the “**Fourth Part**” which expression shall, unless repugnant to the context include its successors and permitted assigns)}

The above mentioned parties of the FIRST, SECOND, {THIRD and FOURTH} PART are collectively referred to as the “**Parties**” and each is individually referred to as a “**Party**”

[¥] A Bidder who is registered abroad may substitute the words, viz “a company registered under the Companies Act, 1956/2013” by the words, viz “a company duly organised and validly existing under the laws of the jurisdiction of its incorporation”. A similar modification may be made in Recital 2, as necessary.

WHEREAS,

- A. Syama Prasad Mookerjee Port, Kolkata, established under the Major Port Trusts Act 1963 and having Principal Office at 15, Strand Road, Kolkata – 700001 (hereinafter referred to as the “**SMP, Kolkata**” which expression shall, unless repugnant to the context or meaning thereof, include its administrators, successors and assigns) has invited bids (the “**Bids**”) by its Bidding Documents No. dated (the “**Bidding Documents**”) for pre-qualification of bidders for Supply, Installation, Testing and Commissioning of 11kV/3.3kV/415V Panel along with allied works for augmentation of GC Berth Sub-station including construction of sub-station including construction of sub-station building at GC Berth area of Haldia Dock Complex, SMP, Kolkata (the “**Project**”).
- B. The Parties are interested in jointly bidding for the Project as members of a Consortium and in accordance with the terms and conditions of the Bidding Document and other documents in respect of the Project, and
- C. It is a necessary condition under the Bidding Document that the members of the Consortium shall enter into a Joint Bidding Agreement and furnish a copy thereof with the Bid.

NOW IT IS HEREBY AGREED as follows:

1. Definitions and Interpretations

In this Agreement, the capitalised terms shall, unless the context otherwise requires, have the meaning ascribed thereto under the Bidding Document .

2. Consortium

- 2.1 The Parties do hereby irrevocably constitute a consortium (the “**Consortium**”) for the purposes of jointly participating in the Bidding Process for the Project.
- 2.2 The Parties hereby undertake to participate in the Bidding Process only through this Consortium and not individually and/ or through any other consortium constituted for this Project, either directly or indirectly or through any of their Associates.

3. Covenants

The Parties hereby undertake that in the event the Consortium is declared the successful Bidder and awarded the Project, it shall enter into a Contract Agreement with the Authority for performing all its obligations as the Contractor in terms of the Contract Agreement for the Project.

4. Role of the Parties

The Parties hereby undertake to perform the roles and responsibilities as described below:

- (a) Party of the First Part shall be the Lead member of the Consortium and shall have the power of attorney from all Parties for conducting all business for and on behalf of the Consortium during the Bidding Process and under the Contract Agreement;
- (b) Party of the Second Part shall be {the Technical Member of the Consortium;}
- {(c) Party of the Third Part shall be the Financial Member of the Consortium; and}
- {(d) Party of the Fourth Part shall be the Operation and Maintenance Member/ Other Member of the Consortium.}

5. Joint and Several Liability

The Parties do hereby undertake to be jointly and severally responsible for all obligations and liabilities relating to the Project and in accordance with the terms of the Bidding Document and the Contract Agreement.

6. Representation of the Parties

Each Party represents to the other Parties as of the date of this Agreement that:

- (a) Such Party is duly organised, validly existing and in good standing under the laws of its incorporation and has all requisite power and authority to enter into this Agreement with SMP Kolkata;
- (b) The execution, delivery and performance by such Party of this Agreement has been authorised by all necessary and appropriate corporate or governmental action and a copy of the extract of the charter documents and board resolution/ power of attorney in favour of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Consortium Member is annexed to this Agreement, and will not, to the best of its knowledge:
 - (i) require any consent or approval not already obtained;
 - (ii) violate any Applicable Law presently in effect and having applicability to it;
 - (iii) violate the memorandum and articles of association, by-laws or other applicable organisational documents thereof;
 - (iv) violate any clearance, permit, concession, grant, license or other governmental authorisation, approval, judgement, order or decree or any mortgage agreement, indenture or any other instrument to which such Party is a party or by which such Party or any of its properties or assets are bound or that is otherwise applicable to such Party; or

- (v) create or impose any liens, mortgages, pledges, claims, security interests, charges or encumbrances or obligations to create a lien, charge, pledge, security interest, encumbrances or mortgage in or on the property of such Party, except for encumbrances that would not, individually or in the aggregate, have a material adverse effect on the financial condition or prospects or business of such Party so as to prevent such Party from fulfilling its obligations under this Agreement;
- (c) this Agreement is the legal and binding obligation of such Party, enforceable in accordance with its terms against it; and
- (d) there is no litigation pending or, to the best of such Party's knowledge, threatened to which it is a party that presently affects or which would have a material adverse effect on the financial condition or prospects or business of such Party in the fulfillment of its obligations under this Agreement.

7. Termination

This Agreement shall be effective from the date hereof and shall continue in full force and effect until the Financial Close of the Project is achieved under and in accordance with the Contract Agreement, in case the Project is awarded to the Consortium. However, in case the Consortium is either not pre-qualified for the Project or does not get selected for award of the Project, the Agreement will stand terminated in case the Bidder is not pre-qualified or upon return of the Earnest Money by the SMP, Kolkata to the Bidder, as the case may be.

8. Miscellaneous

- 8.1 This Joint Bidding Agreement shall be governed by laws of India.
- 8.2 The Parties acknowledge and accept that this Agreement shall not be amended by the Parties without the prior written consent of the SMP, Kolkata.

IN WITNESS WHEREOF THE PARTIES ABOVE NAMED HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

SIGNED, SEALED AND DELIVERED

For and on behalf of

LEAD MEMBER by:

SIGNED, SEALED AND DELIVERED

SECOND PART

(Signature)
(Name)
(Designation)
(Address)

(Signature)
(Name)
(Designation)
(Address)

SIGNED, SEALED AND DELIVERED

SIGNED, SEALED AND DELIVERED

For and on behalf of
THIRD PART

For and on behalf
FOURTH PART

(Signature)
(Name)
(Designation)
(Address)

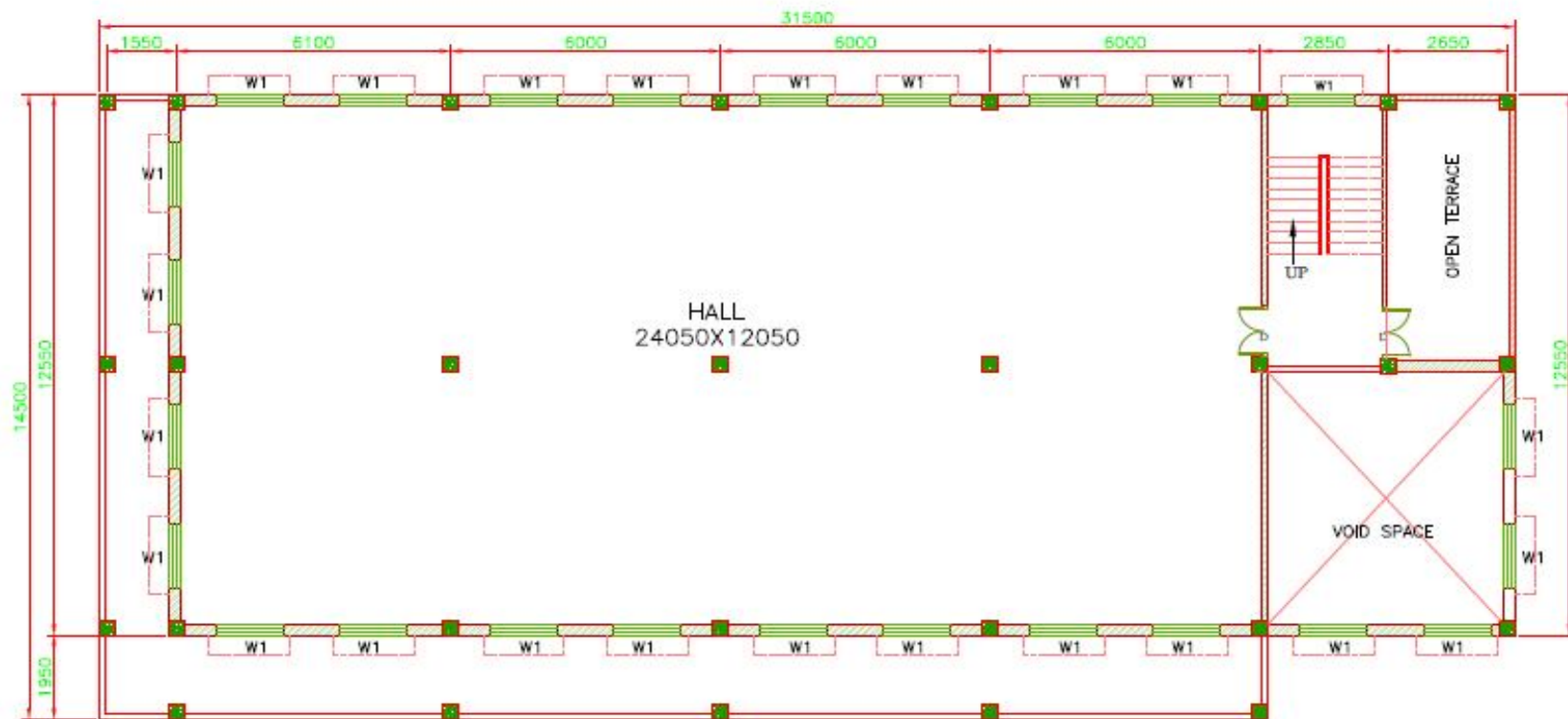
(Signature)
(Name)
(Designation)
(Address)

In the presence of:

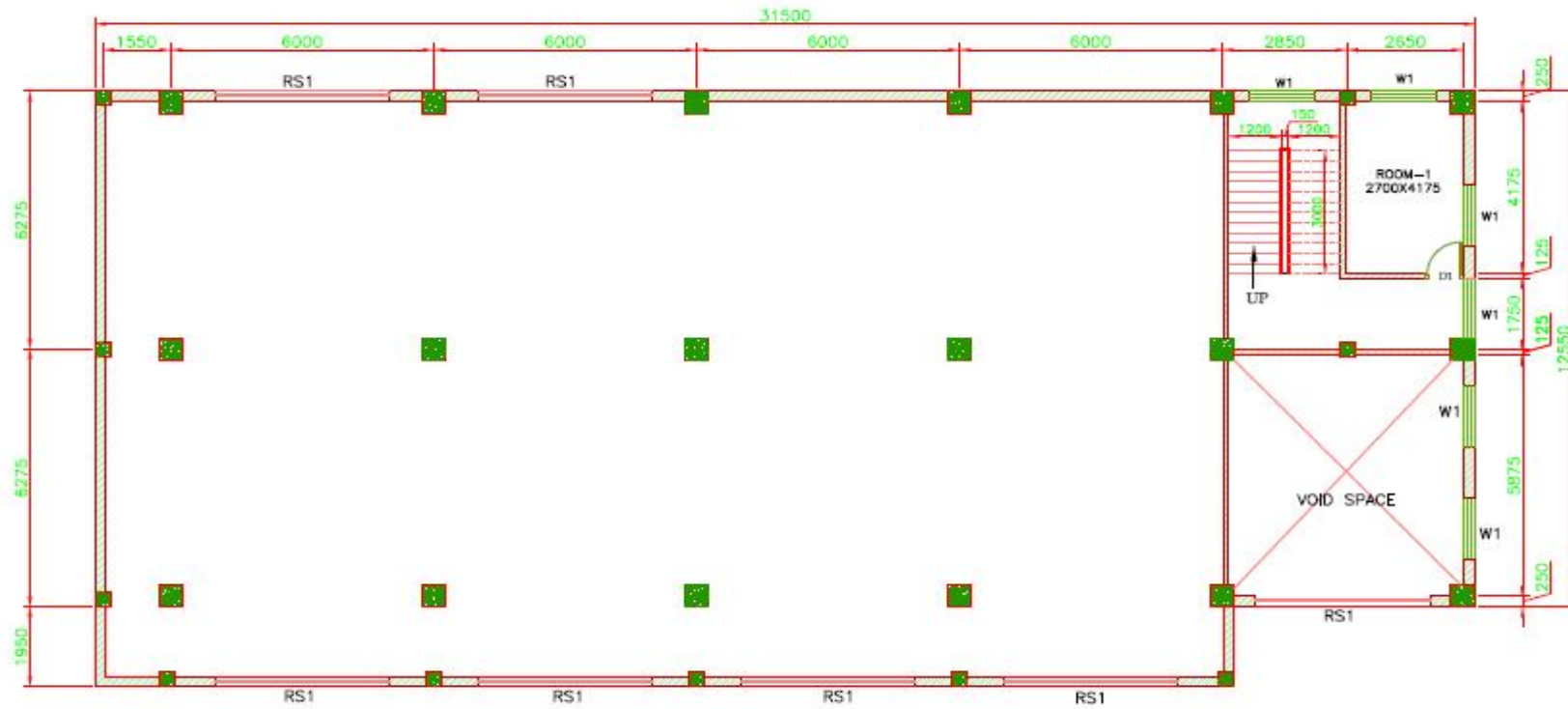
1. 2.

Notes:

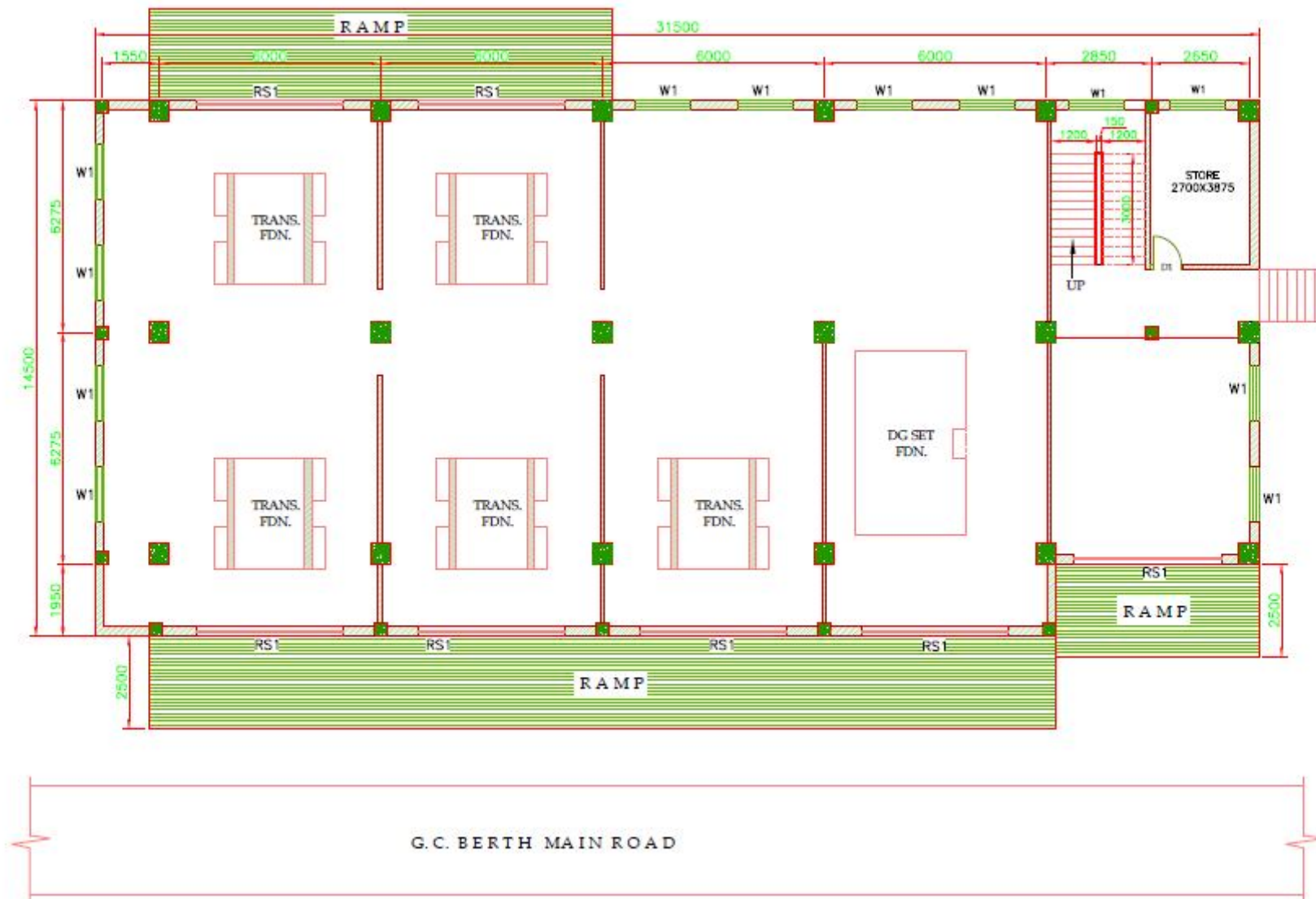
1. The mode of the execution of the Joint Bidding Agreement should be in accordance with the procedure, if any, laid down by the Applicable Law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.
2. Each Joint Bidding Agreement should attach a copy of the extract of the charter documents and documents such as resolution / power of attorney in favour of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Consortium Member.
3. For a Joint Bidding Agreement executed and issued overseas, the document shall be legalised by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney has been executed.



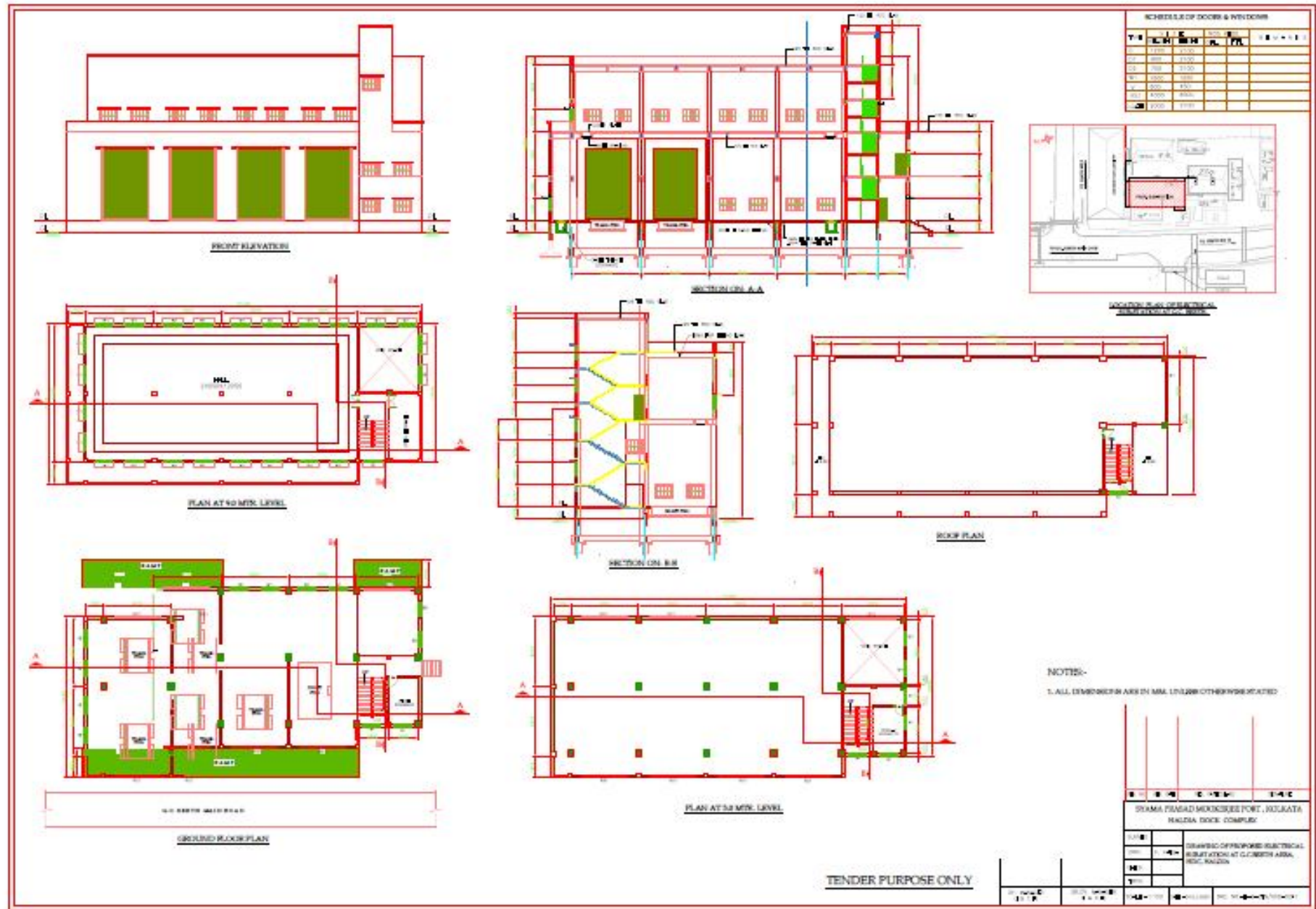
PLAN AT 9.0 MTR. LEVEL



PLAN AT 5.0 MTR. LEVEL



GROUND FLOOR PLAN



SYAMA PRASAD MOOKERJEE PORT, KOLKATA

(Erstwhile Kolkata Port Trust)

HALDIA DOCK COMPLEX

QUERIES OF DIFFERENT FIRMS IN CONNECTION WITH THE PRE-BID MEETING HELD ON 24.08.2020.

for

“Supply, Installation, Testing and Commissioning of 11kV/3.3kV/415V Panel along with allied works for augmentation of GC Berth Sub-station including construction of Substation building at GC Berth area of Haldia Dock Complex, SMP, Kolkata.”

Tender No. SDM (P&E)/T/ 62 /2019-2020

E-Tender No. 2020_KoPT_552403_1

Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
1.		We request to incorporate C&S Electric as preferred make of VCB Panel and Low Voltage Switchgears and Panel against Your Tender Page No. 129, 130 & 131. Point No. 12.0 – List of Approve Make: SL No. 2, 5 to 10, 13 to 18, 21, 27, and 29 to 43 for the List of Approved makes.	Tender condition prevails.
2.		Please incorporate L&T make in HT panel for the tender.	Tender condition prevails.
3.	3.7 of SCHEDULE OF TENDER & 5.15	Period of validity of bids. In clause no. 3.7 its written 180 days and in 5.15 is mentioned 120 days. What need to consider. Please let us know.	Please see addendum
4.	3.5 & 5.16 of Tender Document	Earnest Money Deposit (EMD) - through DD/Banker Cheque. We request you to allow us to submit Bank Guarantee (BG) in place of DD/ Bank Cheque for EMD purpose.	Please see addendum

Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
5.	GC-clause no 3.4 (f, g) & 3.4 6.6, Page No.26	Security Deposit After award of the contract, EMD amount will be return to the L1 contractor or it may be kept as Security Deposit till the end of the project. Please confirm, if L1 contractor submit PBG @ 10% of the contract value and PBG validity till completion period then Security Deposit amount would not be deduct from our RA bills.	Security Deposit:- EMD of the successful bidder shall be retained by SMP Kolkata till submission of Performance bank guarantee/ security deposit and shall be refunded there after. Upon submission of PBG/SD by the successful bidder, no deduction will be made from RA bills.
6.	Clause No. 7.71.2	Payment terms Due to this pandemic situation, we request to consider bellow mentioned payment terms. SUPPLY:- 1- 10% Advance. 2- 75% against supply of material at site prorata basis. 3- 10% against installation pro rata basis. 4- 5% on handing over. ERECTION:- 1- 10% Advance. 2- 85% against installation pro rata basis. 3- 5% on handing over. CIVIL:- 1- 10% Advance 2- 90% against prorata basis.	Tender condition prevails.

Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
7.		Water & Electricity:- Request to provide free water & electricity for construction & commissioning work. If it is chargeable bases pl confirm the per unit rate.	Refer Page No.241,clause No.7.26
8.		Labour Hut man:- As per the present pandemic situation we request to provide labour hut man or land to build temporary labour hut man inside the plant area.	Refer Page No.241,clause No.7.27
9.		Space for Store:- Please provide the covered space for material storing inside the project premises.	Refer Page No.241,clause No.7.27
10.		Approve make list:- Kindly accept the all HT < Panels of (ABB/ Siemens/ Schneider) system integrator.	HT Panel =Tender condition prevails. LT Panels = Please see addendum.
11.	Clause No-9 & BoQ Sl. No. Part- B-1	Internal Electrical Work Please provide the quantity of Switch, Sockets, Celling fans, LED lights & Exhaust fan (capacity of exhaust fan) for substation building.	To be finalized during detail engineering as per scope of work and tender specification.
12.	Clause No. 12- Tender Documents.	Make List Please approved Sterling & Wilson make for all electrical panels along with others make.	Tender condition prevails
13.	Drawings	Please provide the SLD for HT & LT Panels.	Please see addendum.
14.		In BOQ Building dimension (35x12x8) Mtrs Ground floor (35x12x6) Mtrs. 1st Floor is given. But in drawing ground	Please see addendum

Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
		floor, 1st floor (8mtr-Height) & Hall room (9mtr-Height) is mentioned. Please provide us Civil & Structural work drawing for Substation building.	
15.		SWPL is not responsible for any damages/ malfunctioning/ theft on the dismantling, shifting and re installation works.	Refer Page No.128 to 129 ,clause No.11.0
16.		In tender document GST % is not mentioned, please confirm the GST % age need to consider.	Bidder to mention GST % in Bidding Form VI. However, estimated cost is without GST.
17.		Please provide the makes for pipes, valves & Sanitary- CP items	Please see addendum
18.		Cutting of plants in substation location is in SWPL scope, but plantation work is in client scope.	Cutting of plants should be avoided, as far as possible. If required, bidders may relocate plants to a suitable location. However, If unavoidable, 5Nos. plants to be planted against each relocated/cut plant.
19.		Please confirm the distance from new substation building to dismantle items storage location.	Dismantled items shall be stored inside Dock area as directed by Engineer-In-Charge.
20.		Fire protection System:-Request to add NOVEC 1230 system to protect all LT & HT panels inside the substation building from fire. This type of gas based protection system can prevent from fire incident and damage/ loses of the system & plant. Now a days all government projects are recommending to installed this system. Pl add this item in BOQ line item in lumsum bases. and describe 140/180 ltr cylinder capacity. System will be designed based on the location of the area of LT & HT panel installed. BOQ description:- Providing & fixing complete cylinder,	Not in the scope of bidder.

Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
		accessories, piping- (seamless pipes) , fabrication of complete gas suppression system complete as required. E190 (NOTE:- Providing & fixing NOVEC based complete cylinder (of 140/160/180 ltr capacity as per manufacturing standard) along with accessories, piping, fabrication of complete gas suppression system complete as required having minimum system pressure of 25/40 Bar for Sub-station buildings complete except Transformer area & utility (e.g. Toilet etc) area as per drawing provided for sub-stations. FDA required Automatic Actuation to be included in this scope. Cylinder & FDA panel will be installed inside the building, and location will be given during installation.	
21.	Bidding Form VII	Integrity Pact need to submit during bidding stage, pl confirm.	Bidding Form VII of the tender need to be submitted
22.		Commission of HT panel:-Please provide the make of the existing HT panel which need to commission.	Make of existing HT Panel:- BIEECO LAWRIE.
23.	Bid submission date	In this COVID situation most of the OEM are working for home and they are not able to given on time support, so our request to you , please extend the bid submission date upto 5th October 2020 as per the present situation	Please see addendum.
24.		In the approved make list for LT Panels, ABB /Siemens/ L&T/Schneider are mentioned. We would like to know if LT Panels from System Houses of these Vendors are acceptable to you since all the components will be of the respective Vendors.	Tender condition prevails
25.		We did not find the approved makes for LT Busduct in the Make List enclosed with the Tender. Kindly inform about the same.	Please see addendum.

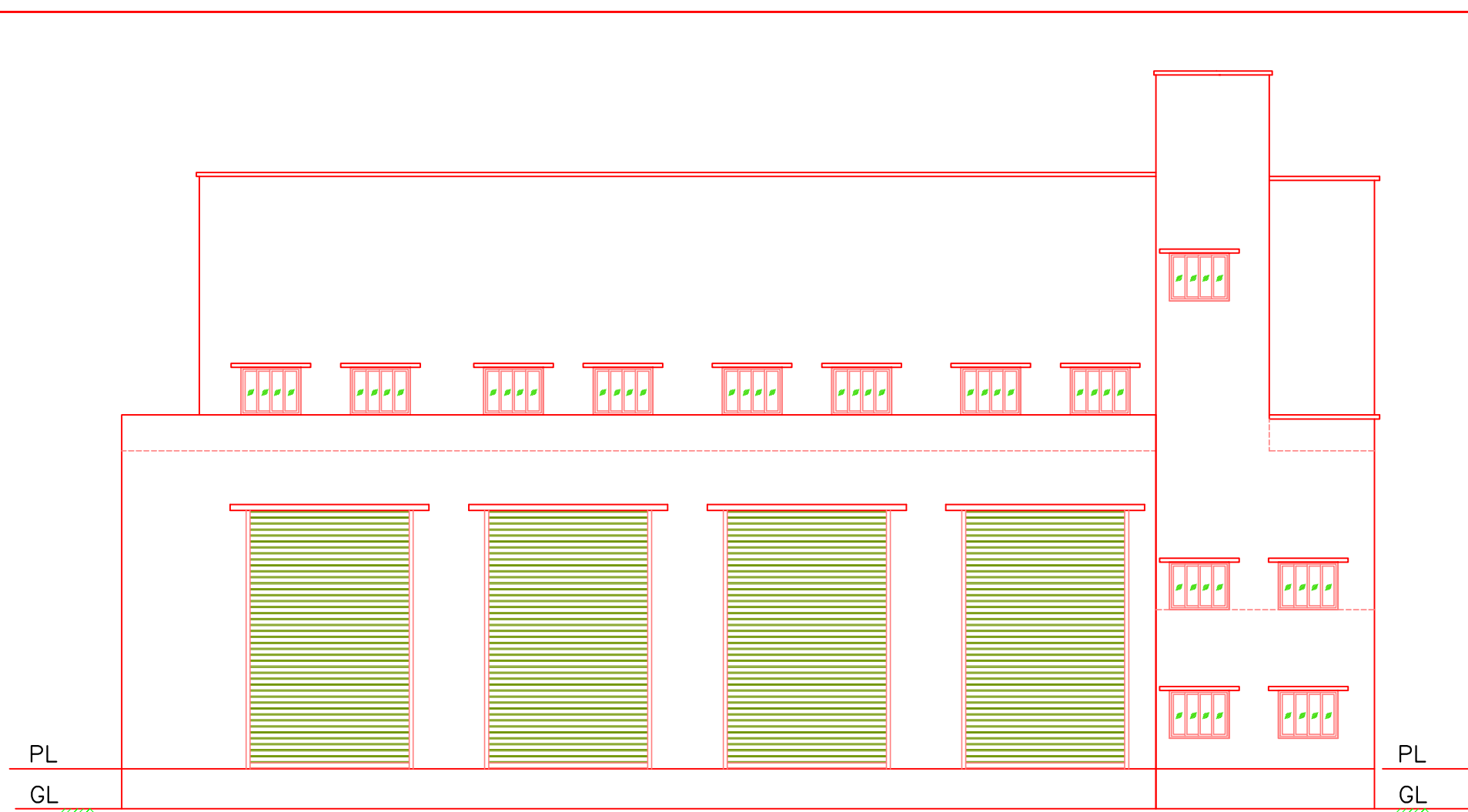
Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
26.	BoQ with estimated rate – Sl. No. 15 & Tender Documents - Part- II (Electrical Works) of LT Bus Duct – Under Clause No. 5(F)	In BOQ with estimated rate – Sl. No. 15 mentioned: “Supply of 1600Amps,1.1KV grade, Copper Bus duct with IP55 Enclosure” But in Tender Documents – Part II (Electrical Works) of LT Bus Duct-Clause No. 5F mentioned: “Rated system voltage and frequency of Bus duct 415V for design” We observed that here technically contradiction, to consider the voltage grade for system design. As per scope of works, LT Bus duct will be installed at LT side of 3.3/0.433KV, 1MVA Transformer to LT panel. Kindly clarify the confirmation of voltage grade for system design the LT Bus duct for smooth operation.	Please see addendum.
27.	BoQ with estimated rate – Sl. No. 15	In BOQ with estimated rate – Sl. No. 15 mentioned: “The unit of measurement is SET for Supply of 1600Amps,1.1KV grade, Copper Bus duct with IP55 Enclosure. Basically, the unit of measurement of Bus duct is Meter. Therefore, we would request you please provide the specified the Unit of Measurement in Meter as well as Quantity in BOQ otherwise required to provide the LT bus duct drawing with dimension. This clarification will help us to provide most competitive bid.	Please see addendum.
28.		Technical Specification of APFC Panel Require the detailed technical specification of Indoor type APFC panel to provide the most competitive bid.	Please see addendum.
29.	BoQ with estimated rate – Sl. No. 3 & Tender Documents - Part- II (Electrical Works) of Indoor 11kV	In BOQ with estimated rate – Sl. No. 3 mentioned: “Design, fabricate, supply, installation, testing and commissioning of indoor HT 11KV VCB Panel 630A, 3 phase, 50HZ, 25KA for 3sec. as per the Technical Specification (14 panel).” But in Tender Documents – Part	Please see addendum.

Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
	HT VCB Panel)	II (Electrical Works) of Indoor 11kV HT VCB Panel mentioned: The tentative layout 12 Panel (including I/C, O/G. Spares, CSS, Gen). We observed that here technically contradiction, the number of panel to be consider. Therefore, we are requesting you please provide the single line diagram of 11KV HT Panel drawing as well as to confirm the specific panel requirement. This clarification will help us to provide most competitive bid.	
30.	BOQ with estimated rate – Sl. No. 21 (i) & (iii)	In BOQ with estimated rate – Sl. No. 21 mentioned: “Re-Location of existing 3.3kV VCB and LT Panel:- Relocation includes i. Supply of necessary material for commissioning of VCB Panel. ii. Supply of necessary material for commissioning of LT Panel We are requesting you please provide specific supply items for 3.3kV VCB & LT panel under scope of bidder supply. This clarification will help us to provide most competitive bid.	All 3.3kV VCB and LT Panels are in service condition. Contractor shall take necessary precaution during dismantling, by averting damage in order to reinstall and commission the equipment at sub-station.
31.	BOQ with estimated rate – Sl. No. 27	In BoQ with estimated rate – Sl. No. 27 mentioned: “Re-Location of existing 33/3.3kV, 6MVA Outdoor Oil type Transformer to sub-station building in HDC and installation of the same on foundation”. We are requesting you please provide exact location of re location as well as min. distance of re-location from dismantled location of mentioned transformer. This clarification will help us to provide most competitive bid.	Existing transformer will be relocated to newly constructed sub-station building. Distance of re-location from dismantled location would be 100Mtrs. Maximum.

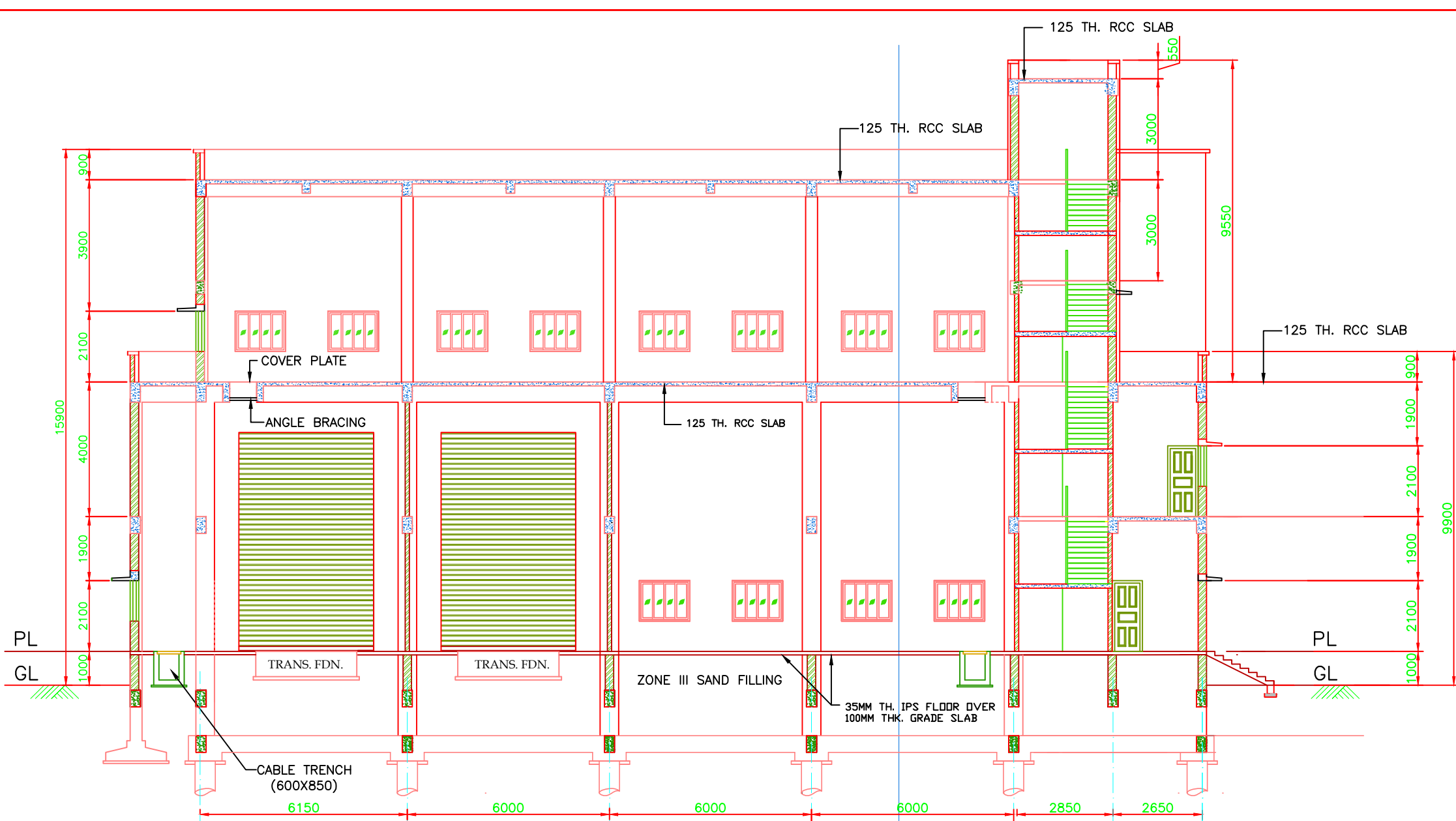
Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
32.	BoQ with estimated rate – Sl. No. 22	In BoQ with estimated rate – Sl. No. 22 mentioned: “Dismantling of existing 3.3kV/0.433kV switchgear Panel:- HT Panel-(31No. Breakers) LT Panel-(14Nos. Breakers) We are requesting you please provide details of HT & LT panel GA drawings with dimension for help us for dismantling. Also after dismantling, it will be required to handover to HDC. If Yes, what is distance to handover place from dismantling location? This clarification will help us to provide most competitive bid.	Existing panels were shown to bidders during site visit after pre-bid meeting. HT VCB Panel to be reinstalled in sub-station located at distance of 2.5Kms.(Approx.) Dismantled HT BOCB Panel shall be handed over to HDC inside Dock area as directed by Engineer-In-Charge.
33.	Control Building Civil tender drawing	Control Building Civil tender drawing Civil Tender drawing (Mainly Control Building of GF/5.0/9.0 Meter Plan) not legible. So, we are requesting you please provide the legible documents which help us to provide most competitive bid	Please see addendum.
34.	Civil & Electrical Drawing	We are requesting you please provide following drawings: Electrical Drawings :- a) Typical Layout for New Substation b) Typical Section for New Substation c) Typical Single Line Diagram for New Sub-Station Civil Drawings:- a) Architectural View and layout (Floor Plan, Front Elevation, Side Elevation, Sajjah, Schedule and Sectional elevation Layout) b) Lay out Plan and details of Columns and Footings c) Layout plan for Tie Beams Plinth wall and	Electrical Drawings :- Please see addendum. Civil Drawings:- Please see addendum.

Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
		Reinforcement details of Tie beam d) Layout Plan, Sectional elevation of Cable Trench and Doors and Window Schedule e) Details of Roof Truss This clarification will help us to provide most competitive bid.	
35.	BoQ with estimated rate – Sl. No. 9	In BOQ with estimated rate – Sl. No. 9 mentioned: “Design, Manufacture, Supply, installation, testing and commissioning of 1600A, 17ways, LT distribution panel as per Technical Specifications (1600A-3Nos. ACB's, 630A-8Nos. ACB's & 400A-06Nos.MCCB's)” We are requesting you please provide tentative of single line diagram of LT panel as per client requirement. This clarification will help us to provide most competitive bid.	Please see addendum.
36.	Tender Documents – Schedule of Tender (SOT) – Earnest Money deposited Under clause no. 3.5 (ii)	In Schedule of Tender (SOT) Under clause no. 3.5 (ii) mentioned: “The intending bidders must deposit Rs. 17,57,015.00 only, as Earnest Money, to Haldia Dock Complex, through DD/Banker Cheque in favour of Syama Prasad Mookerjee Port, Kolkata on any Scheduled/Nationalized Bank payable at Haldia, Otherwise, their offer will be summarily rejected. Copy of the DD/Banker's Cheque should be uploaded. In case the said Earnest Money is not deposited by the bidder, the respective bid will be summarily rejected, treating the same as nonresponsive” Refer to this clause, Can Bidder to submit the EMD against Bank Guarantee instead of DD/Banker's Cheque. During this financial situation for Covid-19 issue, it will be help for us.	Please see addendum.

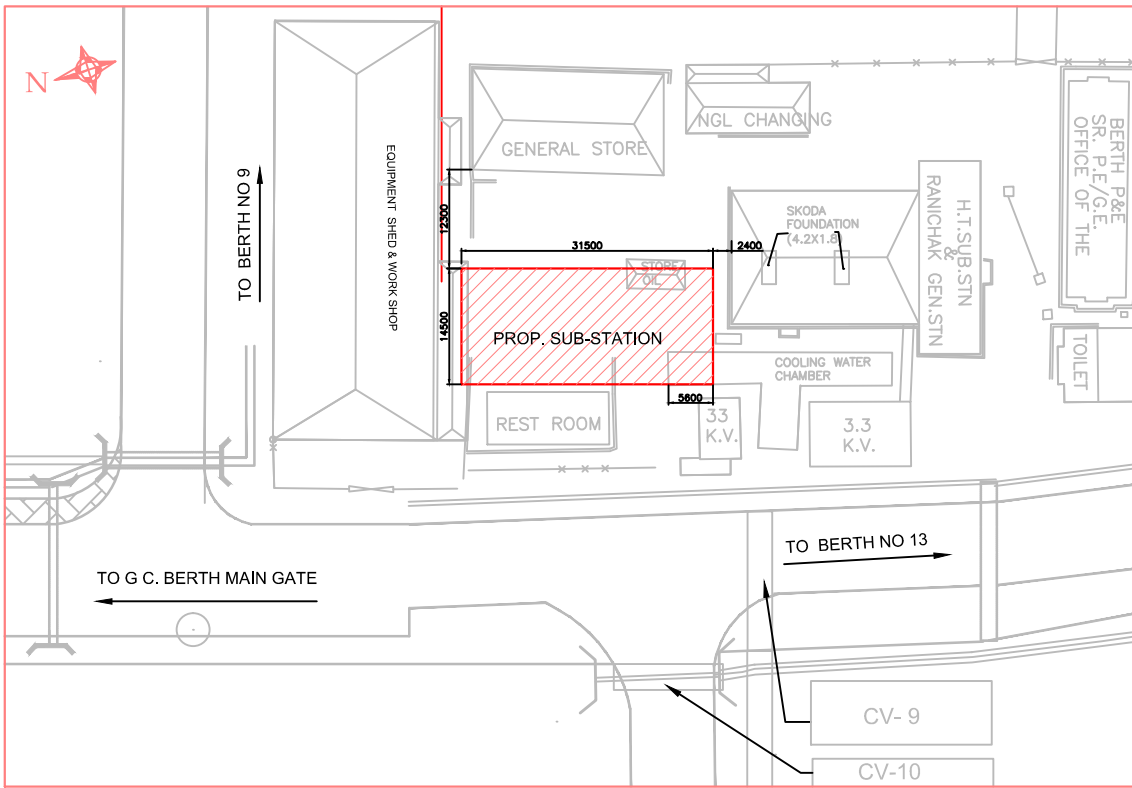
Sl. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
37.		Mandatory Spares or Recommended Spares In tender documents nowhere specified the mandatory or Recommended spares for smooth operation during DLP period. So, we are requesting you please provide list of mandatory or recommended spares for smooth operation during this period and also request you please provide the estimated cost against spares	Replacement of spares during Defect Liability Period is in the scope of the bidder.
38.		Please send format of JV	Please see addendum.
39.		Please approve CGL make HT VCB Panel and approve authorized channel partner of OEM for HT VCB panel to get timely delivery and service.	Tender condition prevails



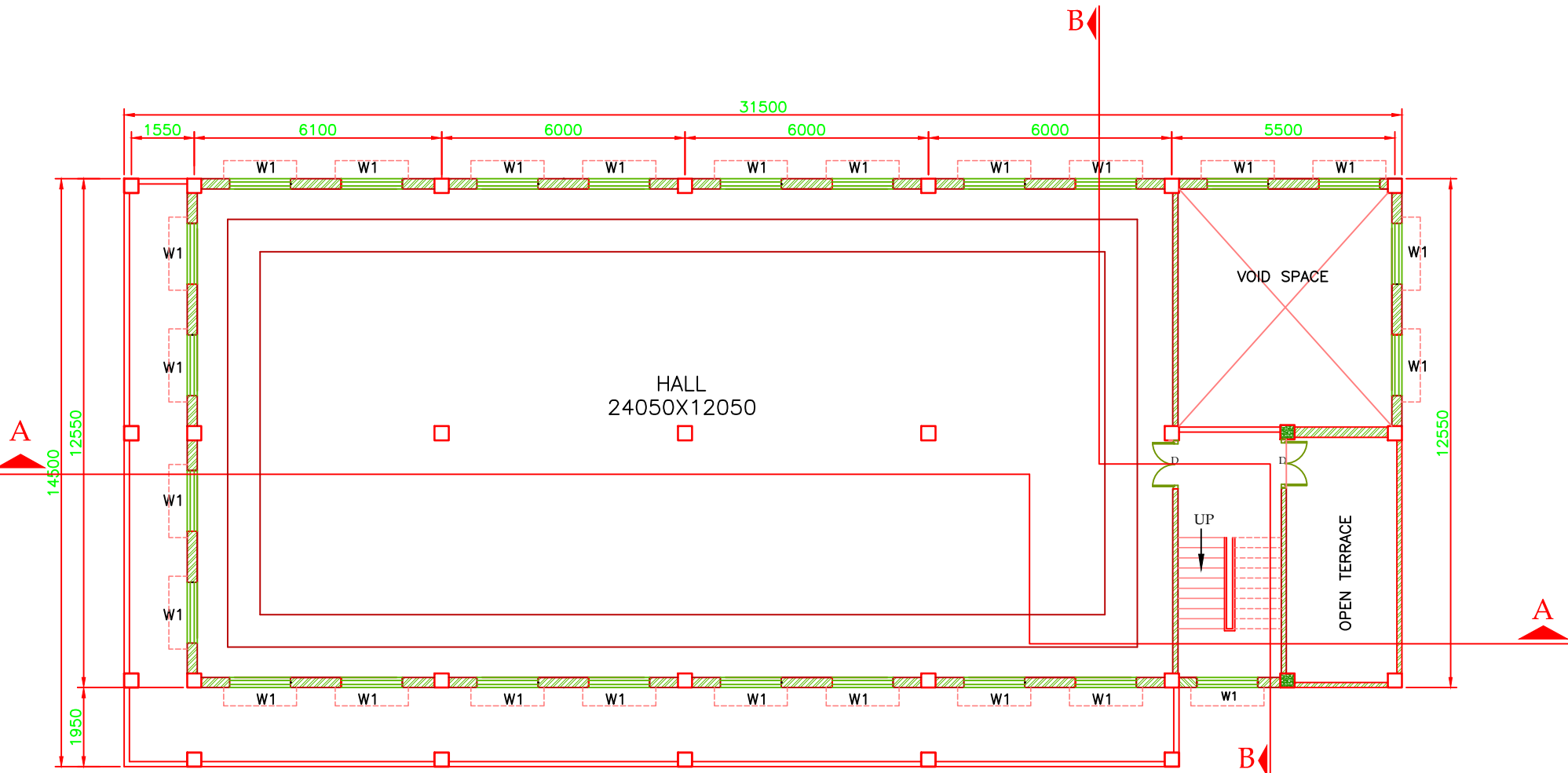
FRONT ELEVATION



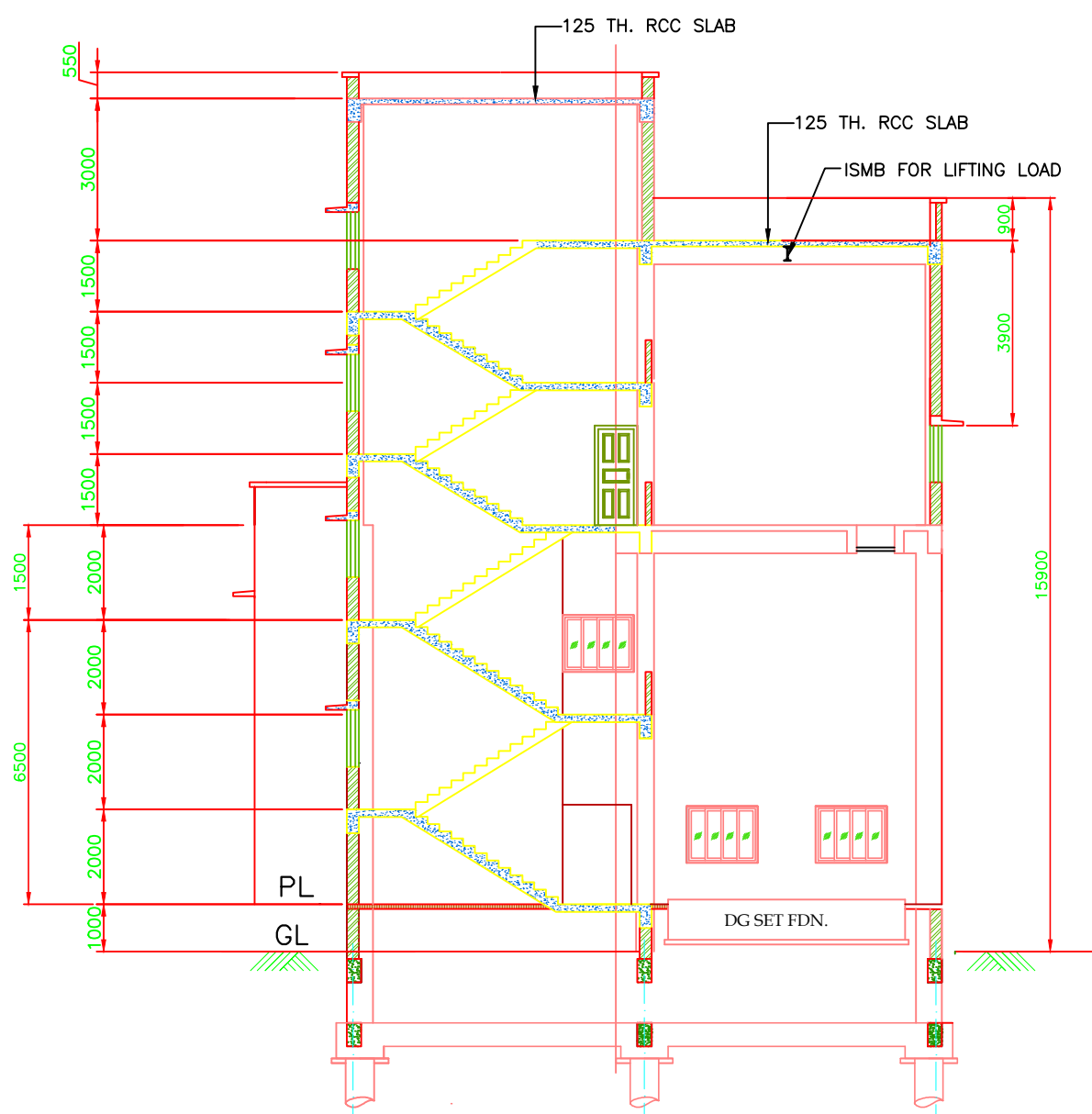
SECTION ON- A-A



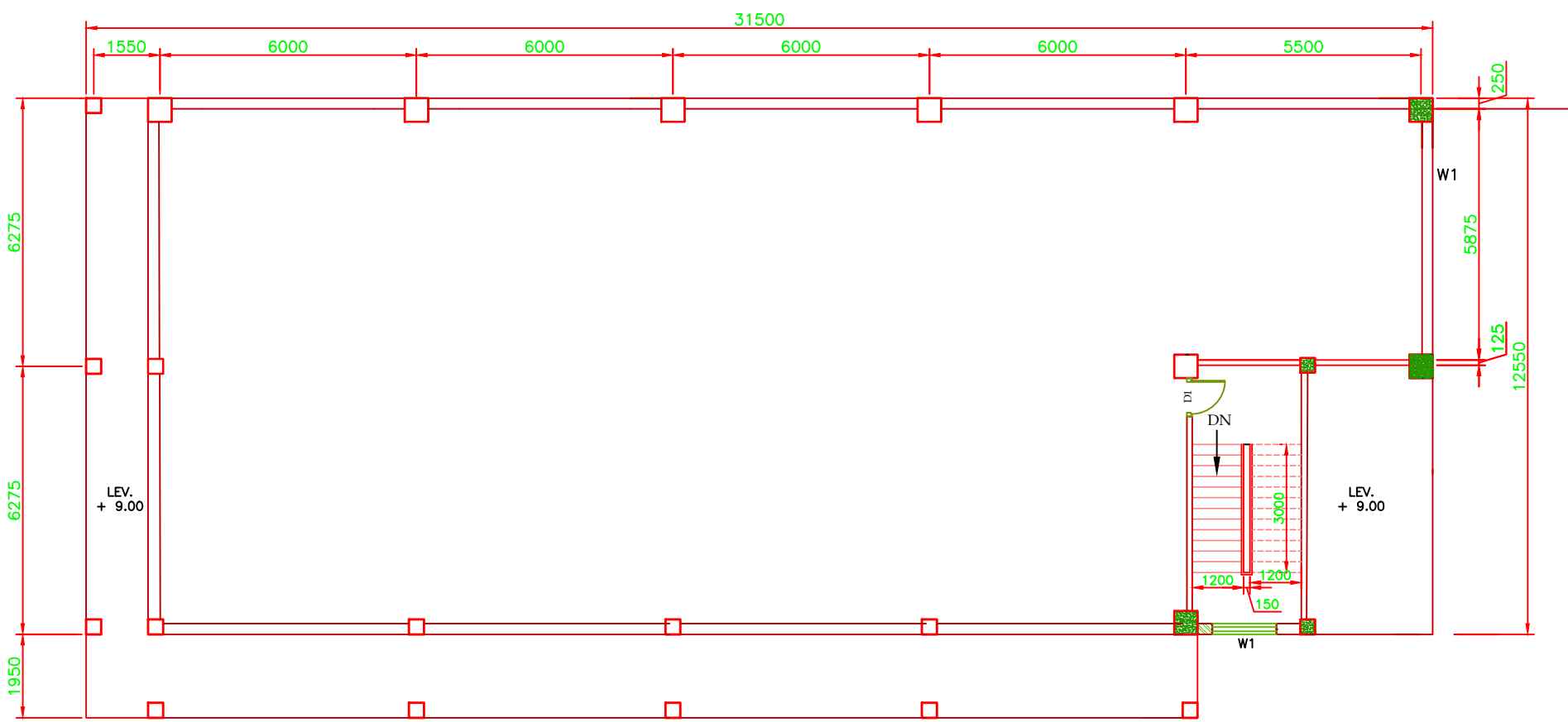
LOCATION PLAN OF ELECTRICAL SUB-STATION AT G.C. BERTH.



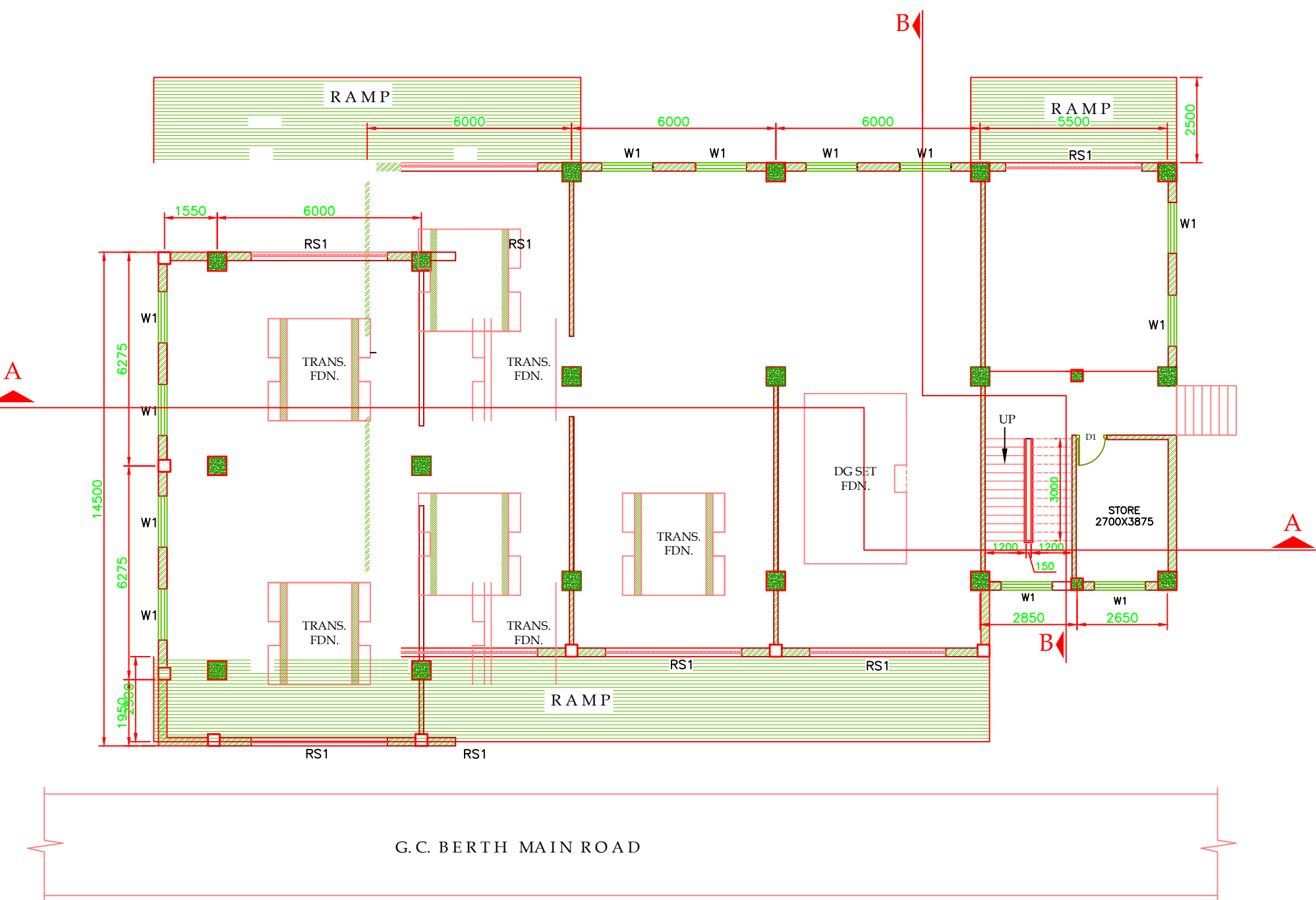
PLAN AT 9.0 MTR. LEVEL



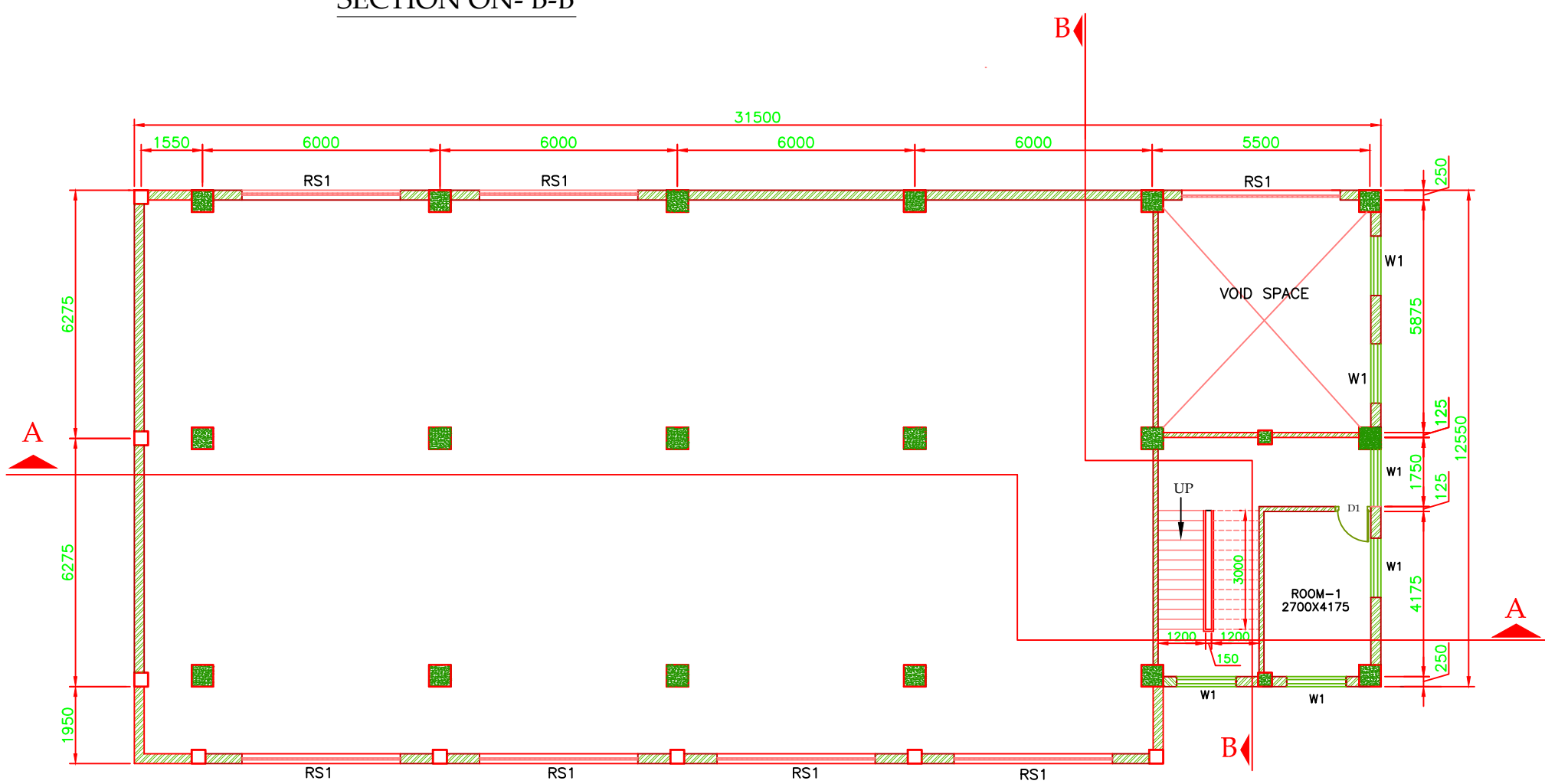
SECTION ON- B-B



ROOF PLAN



GROUND FLOOR PLAN



PLAN AT 5.0 MTR. LEVEL

SCHEDULE OF DOORS & WINDOWS					
TYPE	S I Z E		NOS REQD.		R E M A R K S
	BREADTH	HEIGHT	G.FL.	F.FL.	
D	1200	2100			
D1	900	2100			
D2	750	2100			
W1	1500	1200			
V	600	450			
RS1	4000	6500			
C.GATE	2000	2100			

NOTES:-

1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED

TENDER PURPOSE ONLY

DY. MANAGER (I & C F)	SR.DY. MANAGER (I & C F)	SCALE:-1:150	DATE:-04.03.2020	DRG. NO:-H-S-STN/GCB-02A1
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REV. NO.	REV. DATE	REV. PARTICULARS	SIGNATURE
SYAMA PRASAD MOOKERJEE PORT , KOLKATA HALDIA DOCK COMPLEX			
SURVED		DRAWING OF PROPOSED ELECTRICAL SUB-STATION AT G.C.BERTH AREA, HDC, HALDIA	
DRN.	P. PATRA		
CHKD.			
TRCD.			