



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:PAL-C1081:TCN-01

Date: 25-02-2010

Sub	Tender change notice (TCN- 01).	
Job	Pkg-A Construction of covered / semi-covered stores, site office, security kiosk, misc enabling civil works, etc including associated electrical wiring, fittings. etc. and Pkg-B :Supply of Avery make 60 T weighbridge on hire basis at unit # 1 & 2 of 726.6 (2x363.3) MW Gas Based CCPP at Palatana , Udaipur , Tripura.	
Ref	1.0	Tender no PSER:SCT:PAL-C1081:10.
	2.0	BHEL's NIT, vide reference no Ref: PSER:SCT:PAL-C1081:10 Dated 06-02-10
	3.0	Other references (if any).

With reference to above, following points, relevant to tender, may please be noted and complied with while submitting the offer.

- 1.0 Vol-ID & II has been revised as Vol-ID & II , Rev-01 . All terms & conditions of Vol-ID & II Rev-0 shall be referred from as Vol-ID & II , Rev-01.
- 2.0 Due date of submission of offer is extended from **02-03-2010** to **04-03-2010, 15-00 hrs.**
- 3.0 Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
- 4.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

DGM (SCT)

Encl:

- 1.0 Vol-ID & II , Rev-01
- 2.0 Revised format of 'No deviation certificate'.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

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VOLUME –II

SECTION –I

1.0 SCOPE OF WORK

- 1.1 The intent of this specification is to provide all materials including supply of cement, reinforcement steel, structural steel, CGI sheeting, Office/Stores/Windows/ doors/ fittings/ fixtures/ false ceiling/ rolling shutters/ security kiosk/ electrical wiring / fitting/ fencing/ shifting of materials etc , as reqd, complete as per drawings and specification.
- 1.2 Testing of all materials, cement, steel etc. shall be the responsibility of the contractor including submission of manufacturer test reports.
- 1.3 Providing of all types of labour, supervisors, Engineers, watch and ward as required, T&P including fuel, operators etc. as the case may be, consumables as required for completing the works.
- 1.4 **A)Package – A:** The work includes part construction of covered stores (4 units), Covered cement store (1 unit), Semi-covered stores (3-4 units as per site requirement- **semi-covered store shall be as attachment of covered store & also as stand alone unit**), office (1 unit) etc., as per drawing / specification and other civil enabling works requirements.

B) Package-B: Providing on hire basis, including installation, erection testing & commissioning, mobilization & demobilization,operation & maintenance of electronic road weigh bridge pitless type, 60Tx100kg with platform size of 16 Mx3 M with necessary supporting structures, air conditioned control room with proper digital indicator, recorder, printer, PC with keyboard, display unit (15"), UPS (500VA), accuracy $\pm 0.25\%$ of actual weight, minimum graduation 10kg, maximum weight 60T. AVERY make.
- 1.5 The detail construction drawings / sketches shall be issued to the contractor after the award of work. Contractor shall be required to perform the work in accordance with the PWD schedule / Relevant IS Codes as per the instruction of Engineer.
- 1.6 Structural fabrication work for roof truss, fencing post, security posts, gates etc. shall also be the responsibility of the contractor.

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2.0 BROAD SCOPE OF WORK:

PACKAGE-A

- 2.1 The scope shall include other related works although they may not be specifically mentioned in the subsequent clauses and all such incidental items not mentioned, but are necessary for completion of the work as a whole. The scope also include supply of all labour, technical personnel, materials and equipment for execution of work and getting all materials tested at site laboratory or approved laboratory outside, submitting test reports, arranging supervision etc and execution of the contract with following major areas of work.
- 2.2 The work to be performed under this specification consists of providing all labour, materials, consumables, equipment, temporary works, temporary storage sheds, temporary colony for labour and staff, temporary site offices, constructional plants, transportation/handling and all incidental items not shown or specified but reasonably implied or necessary for the completion of subject scope, all in strict accordance with the specifications including revisions and amendments thereto as may be required during the execution of work.
- 2.3 The scope shall also include setting up by the bidder a testing laboratory in the field to carry out all relevant tests.
- 2.4 All quality standards, tolerances, welding standards & other technical requirements shall be strictly adhered to. The bidder shall fully apprise himself of the prevailing conditions at the proposed site, climatic conditions including monsoon pattern, soil conditions, local conditions and site specific parameters and shall include for all such conditions and contingent measures in the bid, including those which may not have been specifically brought out in the specifications.

PACKAGE-B

2.5 HIRING OF WEIGH BRIDGE

Providing on hire basis, including installation, erection testing & commissioning, mobilization/de mobilization, operation & maintenance of AVERY make electronic road weigh bridge pitless type, 60Tx100kg with platform size of 16 Mx3 M with necessary supporting structures, suitable control room with proper digital indicator, recorder, printer, PC with keyboard, display unit (15"), UPS (500VA), accuracy $\pm 0.25\%$ of actual weight, minimum graduation 10kg, maximum weight 60T.

- a) Free land for installation of weighbridge will be given by BHEL. BHEL shall provide construction power free of cost at one point within project premises with in a distance of 500 metre from work premise. **However, civil foundation of weigh-bridge shall be made by the contractor.**
- b) The contractor shall arrange the requisite T & P for unloading, assembly and disassembly of weigh bridge.
- c) The contractor has to submit the test/calibration certificate on successful installation and commissioning of the weigh bridge.
- d) The operator will be provided by **Contractor.**
- e) **The maintenance / upkeepment (on call basis) and operation of weigh-bridge shall be carried out by the contractor throughout the contract period within the quoted rate/hire charges. It will be the sole responsibility of the contractor to keep the weigh bridge in serviceable condition throughout the contract period. In case of failure/malfunctioning of the weigh bridge, the contractor should arrange to provide to site the required service of weigh-bridge through alternate means within 2 days, for which period the hiring charge will not be paid to the contractor. In case of weigh-bridge failure/malfunctioning for more than 2 days, BHEL shall arrange for the required service of weigh-bridge through alternate agency, as deemed fit, at the risk & cost of the contractor. Such arrangement may continue till 30 days, beyond which BHEL will be free to install replacement weigh-bridge (if the weigh-bridge of the contractor can not be put back to service by 30 days) through alternate agency, as deemed fit, at the risk & cost of the contractor.**
- f) Hiring period is 26 months. However, BHEL reserves the right to extend use of weigh bridge for another 8 months (Max) at the same monthly rate and terms & conditions.
- g) Insurance coverage including 3rd party liability to be taken at contractor's cost.

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VOLUME – II

SECTION – II

GENERAL TECHNICAL REQUIREMENT FOR CIVIL WORKS

2.1 **GENERAL**

All works shall be carried out in proper workmen like manner. Items of works covered by the following specification shall be carried out as per the best practice according to the direction of the Engineer In-charge / BHEL Site Engineer and to his satisfaction. Unless otherwise specified in this section or in the description of item, the cost of stage of works mentioned hereunder shall be deemed to have been included in the rates of items provided in the schedule.

2.2 **DELETED**

2.3 **CLEANING OF WORK SITE**

The work site shall be maintained clean with proper house keeping. All debris / surplus material shall be removed from the site at location to be decided by Engineer. The tenderer in their own interest should visit the site and make themselves conversant with the actual conditions of the site so as to include all costs on their tender rates. No additional payment due to non-availability of site information shall be entertained in the future.

2.4 **DELETED**

2.5 **DELETED**

2.6 **PAINTING**

2.6.1 All surfaces for painting shall be properly sand prepared and cleaned and where necessary good quality putty shall be used to hide all holes, cracks, open joints etc. The rate for painting includes such work.

2.6.2 Paint shall be applied with approved brushes and surfaces shall be sand papered after every coat. All work when completed shall present a smooth, clean, solid and uniform surface to the satisfaction of the Engineer incharge.

2.6.3 **Synthetic enamel paint**

Synthetic enamel paint of approved brand and manufacture and of the required shade shall be used for the top coat and an under-coat of shade to match the top coat as recommended by manufacturer shall be used. Undercoat of the specified paints of shades suited to the shade of top coat shall be rubbed next day. It shall be rubbed next day with fine grade of wet abrasive paper to ensure a smooth and even surface free from brush mark and all loose particles dusted off. Top coats of specified paint of the desired shade shall be applied after the undercoat is thoroughly dry. Additional finishing coats shall be applied if found necessary to ensure properly uniform glossy surface.

2.6.4 **Aluminum paint**

Aluminum paint of approved brand and manufacture shall be used. The paint comes in compact dual containers with paste & medium separately. The two shall be mixed together to proper consistency before use. Each coat shall be allowed to dry for 24 hours and lightly rubbed down with fine grade sand paper and dusted before the next coat is applied. The finished surface shall present an even and uniform appearance. As aluminum paint is likely to settle in the container, care shall be taken to frequently stir the paint during use. Also the paint shall be applied and laid off quickly, as surface is otherwise not easily finished.

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2.6.5 Plastic emulsion paint

Plastic emulsion paints are not suitable for application on external wood and iron surface and are to be used generally on masonry or plastered surfaces. No priming coat is required for the later. Plastic emulsion paint of approved brand and manufacture and of the required shade shall be used. The paint will be applied in the usual manner with brush or roller. The paint dries by evaporation of water content and as soon as the water has evaporated the film gets hard and the next coat can be applied. The time to dry varies from one hour on absorbent surfaces to 2 to 3 hours on non-absorbent surface. The thinning of emulsion is to be done with water will be particularly required for the under coat which is applied on the absorbent surface. The quantity of thinner to be added shall be as per manufacturer's instructions. The surface on finishing shall present flat smooth finish. If necessary, more coats will be applied till the surface presents a uniform appearance.

2.6.6 Precaution

- 2.6.6.1 Old brushes if they are to be used with emulsion paints should be completely dried of turpentine or oil paints by washing in worm-soap water. Brushes should be quickly washed in water, immediately after use and kept immersed in water during break period to prevent the paint from hardening on the brush.
- 2.6.6.2 In the preparation of walls for plastic emulsion painting, an oil base putty shall be used in filling cracks, holes etc.
- 2.6.6.3 Splashes on floor etc. shall be cleaned without delay, as they will be difficult to remove after hardening.
- 2.6.6.4 Washing of surfaces treated with emulsion paints shall not be done within 3 to 4 weeks of application.

2.7 Protective measure

Surfaces of rolling shutters, steel ventilators and articles of furniture, flooring etc. and parts of building not to be white or colour washed shall be protected from being splashed down. Such surfaces shall be cleaned of white or colour wash splashes, if any.

2.8 GROUTING

Grouting of pockets shall be done as per the direction of the Engineer at site and as given in schedule of items.

2.9 STRUCTURAL STEEL WORK

- 2.9.1 All materials for structural steel works have to be supplied by the contractor and necessary test certificate of the materials procured for this work has to be submitted for scrutiny.
- 2.9.2 All fabrications, and erection of structures must be executed according to the specification and drawings and all steel works should be as per IS code No. 800,806,875,1161 of latest Editions. Erection of trusses shall be true to line and level and aligned properly, as per drawing and instruction of Engineer Incharge. Necessary connections of member are to be riveted / bolted/ welded as per design and drawing. All fasteners required for the connections are to be supplied by the Contractor.
- 2.9.3 All fabricated members are to be painted with one coat of shop painting of red oxide / zinc chromites of J&N or equivalent make and final two coats of synthetic enamel paint of approved quality and shade.
- 2.9.4 The contractor has to prepare necessary shop & erection drawings in sufficient numbers at his own cost and submitted for obtaining approval from BHEL, including design of connections etc.
- 2.9.5 All the materials procured for this work should be of approved brand and quality. AC sheet should have protection in both sides width wise 800 mm beyond the brick wall.

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2.9.6 The contractor has to give his competitive offer taking into consideration of all the above points and based on schedule of items enclosed in this tender document.

2.10 to 2.20 - **DELETED**

2.21 **WINDOWS AND VENTILATORS (STEEL)**

2.22 **General**

Supply and fixing in position of window/ ventilators sashes with glazing bars. These sashes should be provided with 12 mm MS round bars welded in window frame horizontally and approximately not more than 100 mm centre to centre and glazing bars shall be fixed / welded to shutter frame as per standard design and as per instruction of BHEL.

Glazing and painting etc. as worded in the respective item.

2.23 **STEEL WINDOWS / VENTILATOR SASHES**

2.23.1 The steel window/ ventilator sashes shall be conform to IS 1038-1968 regarding sizes, material design etc. and only such windows manufactured by reputed manufacturers by continuous electric welding with flash butt welding process shall be accepted.

The windows and ventilator frames shall be manufactured from rolled steel sections conforming to IS 7452-1974 free from rolling defects and suitable for punching and cutting.

2.23.2 **Frames**

Both the fixed and opening frames shall be constructed of sections, approved and to be cut to true length. The corners of fixed and opening frames shall be electrically butt welded to form a solid and true right angle and all frames shall be square & flat. Subdividing bars of the unit shall be tanned and riveted into the frame. No face welding at the joint of the subdividing bars and frame is required. Casements shall be fixed to their frames so as to provide continuous contact for weathering on the inside and outside and shall be secured in closed position by the fittings which shall have been properly checked and adjusted.

2.22.1 **Screws**

Slotted steel adjustable lugs with a standard slot steel windows ventilators shall conform to the requirements of IS 1362-1962.

2.22.3 **Fixing materials**

Slotted steel adjustable lugs with a standard slot of 8 mm wide for MS screw of 6 mm and 12 mm long with square nuts shall be used as fixed lugs. The other dimension of the lugs shall be as per IS 1081-1960. Lugs shall only be placed in the specified positions and grouted into their holes with cement mortar.

The outer frame shall be provided with fixing holes centrally in the section. Additional holes shall be provided at suitable intervals for inserting special spring glazing clips, glazing beads.

2.22.5 **Side hung shutter**

Windows shall be provided with steel hinges inserted inside slot out in the fixed frame and welded to the frame. The hinges shall be normally of the projecting type not less than 65mm. Friction hinges need not be provided and for easy operation non-friction type projected hinges with hinge pins may be provided. It shall be fitted with peg stays which shall be of aluminium & should be 300 mm long with steel peg and locking bracket. The peg stay should have three holes to open the side hung casements in three different positions.

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The side hung shutter shall be provided with aluminium handle and shall be mounted on steel handle plate which shall be welded or screwed or riveted to the opening frame in such a way that it could be fixed before the shutter is glazed and may not be removed after glazing. The handle shall have a two point nose, which shall engage with a cast steel rust protected striking plate on the fixed frame in a slightly open or fast position.

2.22.6 Top hung ventilators

The steel butt hinges for top hung ventilators shall be riveted to the fixed frame or welded to it after cutting a slot in it. Hinges to the opening frames should be riveted and welded and cleaned off. Hung casements shall be provided with aluminium peg stay with three holes which when closed shall be held tightly by the locking bracket. The locking bracket shall either be fitted to the fixed frame or window.

All windows / ventilators shall be designed to open outside.

2.22.7 Glazing

Glazing shall be provided on the outside of the frames. The glass panels shall be free from flow, specks, bubbles etc. and shall have properly squared corners and straight edges. The glass panels shall be of 4 mm thickness, approved figured glass plain sheet glass and of best quality and fixed with special glazing clip / glazing bids the putty containing a hardening agent like lither-age or patent mastic. The fixing and glazing work shall conform to the relevant specification, contained in the IS-1001-1960.

No glazing shall be considered as complete until all stains have been removed from the surface of glass and metal forms. The contractor shall make good any glass broken while fixing or cleaning. All windows / glazing repaired and the whole work left perfect on completion.

2.22.8 Payment shall be for the finished work of providing installation of windows / ventilator frame, as provided. Overall dimensions of the ventilator / window shall be measured for payment. The length and breadth shall be measured nearest to 1 cm and area worked out to two places of decimals of a square meter. No deduction shall be made for the thickness of frame.

2.23 MS GRILLS / MS ROUND

Where MS grills / doors are to be provided in openings, the same shall be fabricated by welding MS Round bars welded as joints to the approved design and pattern or as directed by Engineer incharge from approved quality of material conforming to IS 226-1958 and IS 800-1956. The outside strip frame shall be housed to its full thickness into the surfaces as directed by the Engineer incharge. The grills shall be painted with one coat of red oxide paint and two coats of oil paints of approved make and shade.

2.24 FLOORING ANE ALLIED WORKS

2.24.1 Terrazzo finish in site

It shall consist of an under-bed and a topping laid over an already laid and matured concrete base.

2.24.2 Thickness

Unless otherwise specified the total thickness of the finish shall be minimum 40mm for horizontal and 25 mm for vertical surface of which the topping shall be not less than 10 mm. While the topping shall be of uniform thickness the under-bed may vary inn thickness to provide necessary slopes. The vertical surface shall project out 6 mm from the adjacent plaster or other finish. Necessary cutting into the surface receiving the finish shall be done to accommodate the specified thickness. All junctions of vertical and horizontal shall be rounded neatly to uniform radius of 25 mm.

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2.24.3 Mix

2.24.4 Under- bed

The under-bed for floors and similar horizontal surfaces shall consists of a mix of 1 part cement, 2 parts sand and 4 parts stone chips by volume. For vertical surfaces the mix shall consist of 1 part cement to 3 parts sand by volume. The sand shall be coarse; the stone chips shall be 10 mm down well graded. Only sufficient water is to be added to give a workable consistency.

2.24.5 Topping

The mix for the topping shall be composed of cement, colour pigment, marble dust and marble chips. The proportions of the ingredients shall be such as to produce the terrazzo of colour, texture and pattern approved by the Engineer. The cement should be white or grey or a mixture of the two to which pigment shall be added to achieve the desired colour. The 3 parts of this mixture 1 part marble powder by volume shall be added and thoroughly mixed dry. To 1 part of this mix 1 to 1.5 parts of marble chips by volume shall be added and thoroughly mixed dry again.

The pigment must be stable and non-fading. It must be very finely ground. The marble powder shall be from white marble and shall be finer than IS sieve no. 30. Size of marble chips by volume shall be between 1 mm to 20 mm.

2.24.6 Laying

The under-bed shall be laid in panels. The panels shall not be more than 5 sq. metre in area of which no side shall be more than 2.5 metre long. For exposed locations maximum area of panel shall be 2.0 sq. metre. The panel shall be laid in alternative bays or chess board pattern. No panel shall be cast in contact with another already laid until the later has contracted to the full extent.

Dividing strips made of aluminium or glass shall be used for forming the panels. The strips shall exactly match the total depth of under-bed plus topping.

After laying the under-bed shall be levelled compacted and brought to proper grade with a screed or float. The topping shall be laid after about 24 hours while the under-bed is still somewhat green but firm enough to receive the topping. Slurry of the mixture of cement and pigment already made shall be spread evenly and brushed in just before laying the topping. The topping shall be rolled for horizontal areas and thrown and spread for vertical areas to extract at superfluous cement and water and to achieve a compact dense mass, fully bonded with the under-bed. The surface of the topping shall be trowel led over, pressed and brought to a smooth dense surface showing a minimum 75% area covered by marble chips in a even pattern of distribution.

2.24.6.1 Curing

The surface shall be left for curing for about 12 to 18 hours and they cured by allowing water to stand on surface or by covering with wet sack for four days.

2.24.7 Grinding and polishing

When the surface has sufficiently hardened it shall be watered and ground evenly with rapid cutting coarse grade (No 60) grit blocks till the marble chips are exposed and the surface is smooth. Then the surface shall thoroughly be washed and cleaned. A grout with already been prepared mixture of cement and pigment shall be applied to fill up all pinholes. The surface shall be cured for seven days by keeping it moist and then ground with fine grit blocks (No 120). It shall again be cleaned with water. The slurry applied again to fill up any pinholes that might have appeared and allowed to be curred again for 5 days. Finally the surface is ground again for third time with very fine grit blocks (No 320) to set smooth surface without any pinholes. The grinding shall be done with a suitable machine. Where grinding Machine cannot be used hand grinding may be allowed when the first rubbing shall be with carborundun stone of coarse grade (No 60), second rubbing with medium grade (No 80) and final rubbing and polishing with fine rubbing and polishing with fine grade (No 120). The surface shall be cleaned with water, dried and covered with soil free lean sawdust, if

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directed by Engineer. The final polishing shall be postponed till before handing over, if desired by Engineer. Just before handing over the surface shall be dusted with oxalic acid at the rate of 0.33 gm per sq m water sprinkled on to it and finished by buffing with felt or Hessian bobs. The floor shall be cleaned with soft, moist rag and dried. However, all excess wax polish to be wiped off and surface to be left glossy but not slippery.

2.25 DELETD

2.27 GENERAL :

If Technical Specification of any item is not available, the same will be governed by relevant IS code or manufacturer's specification.

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VOLUME – II

SECTION –III

SPECIFIC TECHNICAL REQUIREMENT

3.1 APPROACH TO WORK SITE

The contractor shall make his own arrangements at his own cost for the necessary approach roads for transportation of materials to site of work. No extra charge in this regard will be entertained.

3.2 SUPPLY OF MATERIALS

The cement for various plain and reinforcement cement concrete works shall generally conform to relevant IS codes as received from various reputed cement manufacturing companies like ACC, L&T, Lafarge, Century etc. The cement shall be ordinary Portland cement /PPC/PSC conforming to relevant IS.

The steel to be supplied by the contractor shall be of relevant IS code and shall be procured from reputed manufacturers like SAIL, TISCO, IISCO, SRMB, SHRICON, SHYAM STEEL, ELEGANT, RINL, JINDAL or from their authorized dealers.

The contractor shall furnish the names of such suppliers before procuring cement and steel for approval of BHEL Engineer at Site.

The contractor shall carry out the test as regards conformity / suitability of cement with reference to IS code.

3.3 DAMAGE TO OTHER STRUCTURE AND PLANT

The contractor shall be totally held responsible for any loss or damages, caused by any act of the contractor labour or his sub-contractor's labour including but not limited to covered / open blasting any structures and plants that may be under construction / erection by any other agency at this site during this entire period covered by this contract alongwith extension, if any.

3.4 BHEL'S INPUT

BHEL will furnish, within the plant site area, the following services and materials under the conditions described below.

All layout work shall be carried out very accurately by the contractor with his own instruments. The contractor shall have on site a good number of survey instruments such as levels, theodolite, staves, measuring devices, survey umbrella etc. **Reference for survey work by the contractor shall be provided by BHEL.**

3.5 SPECIFICATION AND CODES

All works shall be carried out strictly in accordance with technical specification unless otherwise approved by Engineer in writing. Where not specified in the technical specifications, the relevant latest Indian standard codes shall be followed.

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3.6 TECHNICAL INSTRUCTIONS

- 3.6.1 The successful tenderer on receipt of letter of intent from BHEL shall prepare a detailed work programme including items of work within the overall time period allowed and shall submit the same to the Engineer for approval.
- 3.6.2 The work has to be carried out according to priority as may be fixed up by site Engineer of BHEL at site.
- 3.6.3 The materials and workmanship must be of good quality and accepted standards and specifications.
- 3.6.4 All material for construction are required to be procured by the contractor and should conform to relevant IS specifications.
- 3.6.5 The site Engineer reserves the right to reject any material not upto the specification. All taxes, levies and duties on construction materials will be on contractor's account.
- 3.6.6 After completion of work, the building and areas around them should be cleared of all rubbish, debris etc. and handed over in fit condition for occupation.
- 3.6.7 Unless otherwise specified , rates quoted under the contract shall apply for works irrespective of lifts and leads. Rates shall also include providing scaffolding and its subsequent removal.
- 3.6.8 All quantities under schedule of rates and quantities are approximate and are subject to change.

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VOLUME – II

SECTION – IV

SPECIAL CONDITION OF CONTRACT

These special conditions shall be read and construed along with general condition of contract and in case any conflict or in consistency between the general and this special condition of the contract, the content in this special condition shall prevail.

1.0 PROJECT SYNOPSIS AND GENERAL INFORMATION

1.1 Details of proposed stage/ units—

Project name: 726.6 MW Gas based CCPP
 No of units x capacity: 2 x 363.3 MW.
 Project setting up by: ONGC Tripura Power Company Ltd.

1.2 APPROACH TO SITE--

Nearest railway station/ Airport: Agartala.
 The site is located at Udaipur – Kakraban Road – 9 km from Udaipur and 74 km from Agartala air port.
 Location – Palatana, Udaipur, Dist-South Tripura

1.3 Owner: ONGC Tripura Power Company Ltd.

2. CONSUMABLES:

- A) All consumables, like gas, electrodes, chemicals, lubricants etc. required for the contractor at his cost shall arrange the job unless otherwise specifically mentioned in the contract.
- B) All consumables to be used for the job shall have to be approved by BHEL prior to use.
- C) In the event of failure of contractor to bring necessary and sufficient consumables, BHEL shall arrange for the same at the risk and cost of the contractor. The entire cost towards this alongwith overhead shall be paid by the contractor or deducted from the contractor's bills.

3. REVISION OF RATES / OVER RUN CHARGES:

No revision of rates / over run charges shall be paid to the contractor in the event of the completion period is extended for any reason whatsoever.

4. DEVIATIONS:

The bidder is required to submit with his offer in the relevant schedule / format list. Bidder is required to visit site and acquaint himself about the situation of sites, law and order situation etc. and submit their bid accordingly. Any assumptions, presumptions, deviations etc. indicated or implied anywhere by the bidder may lead to cancellation offer.

5. LAND:

- a) Minimum land will be provided free of cost for **contractor's working area** & construction of contractor's temporary office, stores area etc. within the project premises.

The existing land shall be shared by all agencies working in the project. Bidder must visit site to assess site condition, prior to quoting.

- b) Land will be provided for Labour Colony inside the project premises to the contractor to construct labour colony / hutment as per their own plan, layout and type after obtaining approval from BHEL.

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Contractor has to make his own arrangement to develop the land by backfilling, cutting of grass, bushes etc. at his own cost. Following are to be noted-

- 1 Availability of land within plant boundary is very limited and the contractor has to plan and use the existing land considering the use of land by other contractors and vendors. Contractor shall develop area for their own office/store/work purpose etc including grass/ tree cutting, leveling, grading etc as applicable.
 - 2 Limited Land for labour colony will be provided inside project boundary wall (in the 'Spare area'), free of cost, depending on availability. The contractor to construct labour colony/ hutment as per their requirements at their own cost. The contractor is to fulfill norms of cleanliness, sanitation, sewerage etc for labour colony, as per site requirement. However, bidder shall also note the following :-
 - 2.1 Deleted
 - 2.2 The temporary shelters for labour colony shall be separated from construction/ storage area by providing suitable boundary wall/ fencing and suitable watch & ward shall be provided for security.
 - 2.3 Proper sanitation, cleanliness etc shall be maintained at site.
 - 2.4 In case required by customer to meet any statutory requirement or otherwise, the land will be vacated without any cost & time implication within a suitable mutually agreed time.
 - 2.5 On completion of work & before demobilizing, labour colony shall have to be dismantled, the whole area cleaned and the debris etc removed from the land.
 - 2.6 All statutory, legal and contractual requirements shall be complied with while constructing temporary shelters.
- c) The contractor will be responsible for handing back all lands, as handed over to him for his temporary use to BHEL as per the instruction of BHEL Engineer.

6. **WATER:**

Contractor will make their own arrangement for drinking / construction water at site at his own cost. Drinking water required for staff / labour colony will be arranged by the contractor at his own cost.

7. **CONSTRUCTION POWER**

BHEL shall provide at one point construction power within project premises free of cost with in a distance of 500 metre from work premise. Contractor will have to do necessary cabling and provide necessary calibrated meters (tamper-proof suitably housed in a weather proof box with lock and key arrangement) along with calibration certificate from authorized / accredited agency for working out the power consumption at his own cost. In case of re-calibration required for any reason, the necessary charges including replacements by calibrated meters is to be borne by the contractor. Contractor will make his own arrangement for electric power required for his labour colony including distribution network.

The contractor shall have to make arrangements at their own cost for illumination that will be required in the working areas for execution of the work.

The power supply will be from the available grid. BHEL shall not be responsible for any inconvenience or delay caused due to any interruption of power supply/ variation in voltage level and no compensation for delay in work can be claimed by the contractor due to such non-supply on the grounds of idle labour, machinery or any other grounds.

Bidder will have to arrange sufficient illumination at their own cost in the working areas.

The contractor should ensure that the work in critical areas is not held up in the event of power breakdown. In the event of breakdown in the electric supply, if the progress of work is hampered, it will be the responsibility of the contractor to step up the progress of work after restoration of electric supply so that overall progress of work is not affected.

The contractor shall have to make arrangement at their own cost for illumination that will be required in the working area for execution of the work & safety of workmen.

8. **CONSTRUCTION OF TEMPORARY OFFICE ETC**

The contractor shall arrange at his own cost the construction office, stores, labour colony etc and also the watch and ward of all the above.

9. **TOOLS & PLANT (To be provided by contractor)**

All T&P to be provided by the contractor for successful completion of work as mentioned elsewhere in the specification.

10.0 **CONSTRUCTION SCHEDULE**

10.1 **PACKAGE-A**

(i) **OFFICE BUILDING STRUCTURE (1 UNIT) :-**

Office building structure to be handed over to bhel by vendor after completion of erection of columns, roof truss and fixing of roof sheeting etc. within 2 months from start of work, after which bhel will complete all brick, masonry work flooring etc. & handover the building to vendor for wooden false ceiling work after approx. 3 months. thereafter vendor shall complete false ceiling work within 1 month.

(ii) **COVERED CEMENT STORE (1 UNIT) :-**

All structural roof truss, c.g.i.sheeting & side cladding to be completed & handover to BHEL with lock & key within 3 months from the date of site handover by BHEL to vendor.

(iii) **ALL OTHER STORES (4 UNITS OF COVERED STORE & 3-4 UNITS AS PER SITE REQUIREMENT OF SEMI-COVERED STORE) :-**

All structural roof truss, c.g.i.sheeting & side cladding to be completed & handover to BHEL with lock & key within 6 months from the date of site handover by BHEL to vendor.

(iv) **Completion of activities for Security Kiosk – by 6 months from start of work.**

NOTE: After completion of above activities in totality, which shall be completed by approx 6 months (including inputs/ front/site to be provided by BHEL) from Start of work, another 2 months shall be given to vendor for demobilization/ reconciliation/ contract closing etc. Thus total completion period envisaged will be approx **8 months from start of work.**

10.2 **PACKAGE-B**

Completion of activities for weighbridge:

- a) Receipt at site - within 30 days from LOI.
- b) **Commissioning/Handing over for operation of** serviceable weigh bridge along with test/calibration certificate for use at site on successful installation and commissioning (to be certified by BHEL) – within 50 days from LOI.(Hiring period of 26 months will start from this date).

c) DEPLOYMENT DETAILS, CONTRACT PERIOD AND DAILY WORKING HOURS

ITEM	TENTATIVE DEPLOYMENT MONTH/YEAR	DURATION
Weigh-Bridge	APRIL '10	26 MONTHS

The Contract Duration Period for Weigh-Bridge Deployment shall be as above, to be reckoned from the date of Commissioning/Handing over for operation after readiness of the Weigh-Bridge with all accessories at Site in Good Order & Condition, as certified by **BHEL's Site Engineer**. The monthly rate quoted in the prescribed rate schedule shall remain firm throughout this period. However, if the performance of Weigh-Bridge

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is not satisfactory the contract shall be liable for termination without prior notice. The Weigh-Bridge and service/maintenance personnel shall remain available as per site requirement.

- d) Maintenance activities shall be done by the Contractor during Recess Period so that no working day is lost for outage of the weighbridge. However, any Breakdown/Repair of the weighbridge shall be immediately attended by contractor at his own cost. The contractor is to maintain stock of adequate Spares & Consumables with the required Tools & Tackles at Site for this purpose. Ref cl no. 2.5 (e) in this regard.
- f) BHEL shall provide space free of cost to the contractor at Site, where they are to maintain a shed/container for working facility of their personnel including operation / maintenance staff of the contractor for weigh-bridge.
- g) Contractor has to make their own arrangement for Accommodation, Transport and other amenities like Medical etc. for their crew/staff at Site at their own cost.

11. **MOBILISATION**

The contractor shall mobilize T&P required and start the actual work within 20 days from the date of placement of LOI, after obtaining clearance from BHEL Site. Start of work shall be certified by BHEL engineer.

12. **MOBILIZATION ADVANCE**

No mobilization advance will be paid.

13. DELETED

14. **INTERIM PAYMENT**

TERMS OF PAYMENT FOR PACKAGE-A

- 14.1 For all items of work as per Bill of quantities, the monthly R.A. bill payment shall be limited to 95% of the gross value of R.A. bill on item rate basis. All admissible recovery / adjustment etc. shall be made within 30 days of the receipt of correct and complete invoice by BHEL site office, accompanied by BHEL Engineer's certificate / jointly signed measurement sheet subject to its completeness and correctness in all respect. The measurement will be taken as per relevant clauses of Volume– 1B of tender document and certified by BHEL Engineer for the actual work done.
- 14.2 Balance 5% of gross value of bill shall be paid along with the final bill after adjusting all recoveries due from the contractor.

TERMS OF PAYMENT FOR PACKAGE-B

- 14.3 50% of Mobilisation and Demobilisation charge of the weigh bridge shall be payable against mobilisation & successful commissioning/handling over of weigh bridge for operation and balance 50% shall be paid after demobilisation of the weigh bridge as per instruction of BHEL. Monthly hire charge will be made on monthly prorata basis throughout the hiring period of weighbridge. Hire charge is not payable for the period of non availability of weigh bridge. Hiring period will start from successful commissioning and handing over the weigh bridge to BHEL engineer.
- 14.4 Regarding Monthly lumpsum charge as per BOQ, monthly R.A. bill payment shall be limited to 95% of the gross value of R.A. bill on item rate basis. All admissible recovery / adjustment etc. shall be made within 30 days of the receipt of correct and complete invoice by BHEL site office, accompanied by BHEL Engineer's certificate / jointly signed protocol/measurement sheet subject to its completeness and correctness in all respect.

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The protocol/measurement sheet will be taken as per relevant clauses of Volume– 1B of tender document and certified by BHEL Engineer for the actual work done.

- 14.5 Balance 5% of gross value of bill shall be paid along with the final bill after adjusting all recoveries due from the contractor.
- 14.6 BHEL Site Incharge will at his discretion decide about further splitting of payment percentage of the vendor to facilitate the cash flow, as reqd, depending on the progress of work at site.
- 14.7 Vendor has to submit OTPC Entry gate pass for Cement, Steel and any other material required for the work.

15. **SAFETY**

The contractor shall ensure the safety of all workmen, materials and equipment either belonging to him or to others working at site and existing unit of customer. He shall observe safety rules and codes applied by the owner / BHEL at site without exception.

Non-conformity of safety rules and safety appliances will be viewed seriously and BHEL has right to impose fines on the contractor on each incident/ each non-conformity as per details given below:

SL. NO.	SAFETY REQUIREMENT	FINE (RS.)
01.	NOT WEARING SAFETY HELMET	50/- PER INCIDENCE
02.	GRINDING WITHOUT GOGGLES	50/- PER INCIDENCE
03.	NOT USING 24 V SUPPLY FOR INTERNAL WORK	500/- PER INCIDENCE
04.	ELECTRICAL PLUGS NOT USED FOR HAND MACHINES	100/- PER INCIDENCE
05.	NOT SLINGING PROPERLY	200/- PER INCIDENCE
06.	USING DAMAGED SLING	200/- PER INCIDENCE
07.	USING WELDING CABLES/ELECTRICAL WIRES HAVING LOT OF JOINTS AND NOT INSULATED WITH PROPER/STANDARD CABLE INSULATING MATERIALS	200/- PER INCIDENCE
08.	NOT WEARING HAND GLOVES	200/- PER INCIDENCE
09.	IMPROPER EARTHING OF ELECTRICAL T&P (NOT PROVIDING EARTH LEAKAGE CIRCUIT BREAKER)	200/- PER EQUIPMENT
10	Periodical examinations and all tests for all lifting/ hoisting equipment & tackles shall be carried-out in accordance with relevant provisions of Factories Act 1948, Indian Electricity Act 1910 and associated laws/ rules in force from time to time. A register of such examinations & tests shall be properly maintained by contractor and will be promptly produced as & when desired by BHEL or by the person authorized.	
11	The contractor shall provide suitable safety equipment of prescribed standard to all employees and workmen according to the need, as may be directed by BHEL who will also have right to examine these safety equipments to determine their suitability, reliability, acceptability and adaptability.	
12	The contractor shall provide safe working conditions to all workmen and employees at the Site including safe means of access, railings, stairs, ladders, scaffoldings etc. The scaffoldings shall be erected under the control and supervision of an experienced and competent person. For erection, the contractor only shall use good and standard quality of material.	
13	The contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to BHEL or other contractors under any circumstances, whatsoever, unless expressly permitted in writing by BHEL to handle such fuses, wiring or electrical equipment.	
14	Before the contractor connects any electrical appliances to any plug or socket belonging to the other contractor or BHEL, he shall fulfill following.	
15	Satisfy BHEL that the appliance is in good working condition.	
16	Inform BHEL of the maximum current rating, voltage and phases of the appliances.	
17	Obtain permission of BHEL detailing the sockets to which the appliances may be connected.	
18	The BHEL will not grant permission to connect until he is satisfied that:	
19	The appliance is in good condition and is fitted with suitable plug;	
20	The appliance is fitted with a suitable cable having two earth conductors, one of which shall be an earthed metal sheath surrounding the cores.	

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21	No electric cable in use by contractor/ BHEL will be disturbed without prior permission. No weight of any description will be imposed on any cable and no ladder or similar equipment will rest against or attached to it.
22	No repair work shall be carried out on any live equipment. BHEL must declare the equipment safe and a permit to work shall be issued by BHEL before the contractor carries out any repair work. While working on electric lines/equipments whether live or dead, suitable type and sufficient quantity of tools will have to be provided by contractor to electricians/ workmen/ officers.
23	The contractors shall employ necessary number of qualified, full time electricians/ electrical supervisors to maintain his temporary electrical installations.
24	The contractor shall employ trained safety officer to supervise day to day safety aspects of the equipments and workmen, who will co-ordinate with BHEL safety officer. In case of work being carried out through sub-contractors, sub-contractor's workmen/ employees will also be considered as the contractor's employees/ workmen for the above purpose.
25	The name and address of such safety officer of contractor will be promptly informed in writing to BHEL with a copy to safety officer-In charge before he starts work or immediately after any change of the incumbent is made during currency of contract.
26	In case any accident occurs during the construction/ erection or other associated activities undertaken by the contractor thereby causing any minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the contractor to promptly inform the same to BHEL in prescribed form and also to all the authorities envisaged under the applicable laws.
27	BHEL shall have the right at his sole discretion to stop the work, if in his opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and/ or property, and/ or equipments. In such cases, the contractor shall be informed in writing about the nature of hazards and possible injury/ accident and he shall comply to remove shortcomings promptly.
28	The contractor shall not be entitled for any damages/ compensation for stoppage of work due to safety reasons above and the period of such stoppage of work will not be taken as an extension of time for completion of the facilities and will not be the ground for waiver of levy of penalty.
29	The contractor shall follow and comply with all safety rules of BHEL, relevant provisions of applicable laws pertaining to the safety of workmen, employees plant and equipment as may be prescribed from time to time without any demur, protest or contest or reservation. In case of any inconformity between statutory requirement and Safety Rules of BHEL referred above, the later shall be binding on contractor unless the statutory provisions are more stringent.
30	In case BHEL is made to pay such compensation then the contractor is liable to reimburse BHEL such amount in addition to compensation indicated above.
31	These insurance covers have to be taken prior to start of his work at the subject project and he shall make available the Policy to BHEL site-in-charge for necessary verification before commencement of work. However, irrespective of such verification/ acceptance, the sole responsibility to maintain adequate insurance cover for his workmen, T&P, assets etc at all times during the period of contract shall lie with the contractor. Regarding the aforesaid insurance cover, the contractor shall directly deal with the Insurance Company for all matters regarding the insurance in his scope.
32	HEALTH SAFETY & ENVIRONMENT
33	It is imperative on the part of the contractor to join and effectively contribute in joint measures such as tree plantation, environment protection, contributing towards social up-liftment, conversion of packing woods to school furniture, keeping good relation with local populace etc.
34	First aid facility to be arranged at site by the bidder at his own cost. No medical facility within / near the site shall be provided by BHEL.
35	The contractor shall solely be responsible for the safety, quality, & quantity of material after it is handed over and issued to contractor by the BHEL.

16. CHARGES FOR MISCELLANEOUS ITEMS OF WORK

If any miscellaneous (new or additional) items of work, which are not incorporated in the BOQ schedule, but incidental to the proper execution of the job, have to be executed by the contractor, the rate of such miscellaneous item of work shall be as per the following: -

- a) If the items are covered under PWD schedule, the rate shall be derived from the percentage quoted under item 35, "MISCELLANEOUS ITEMS" of Rate Schedule (PWD-1999-2000 – for building & sanitary works and PWD SCHEDULE-1998-1999 for Road works.)

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- b) If the items are not covered under PWD schedule, the rate of such items shall be derived, if possible, from the available rates, agreed upon in the rate schedule of this contract.
- c) If the items are not covered in above schedule [sl. no. (a) & (b)], the rates have to be mutually agreed upon mainly on the basis of prevailing market rates for which all documentary evidences, as required by BHEL/Site Engineer shall have to be produced by the contractor. Decision of BHEL in such cases shall be final and binding on the contractor.

In the event of any dispute regarding acceptance of any work under the above category, the work has to be carried by the contractor and measurement to be signed jointly with remark "FOR HQ DECISION". Under no circumstances, the contractor can refuse to carry out such miscellaneous work with any pre-condition, save and except of keeping the records for the particular job for further consideration by HQ at Kolkata.

17. INSURANCE FOR PACKAGE-A

BHEL shall arrange insurance coverage for the material and properties of BHEL/Customer covering the risks during transit, storage, erection and commissioning.

It is the entire responsibility of the contractor to insure his workmen against accident and injury while at work as required by the relevant rules and to pay compensation, if any, to their workmen as per workmen's compensation act. The contractor has also to insure his staff against accident/injury. The contractor has to take insurance cover for his tools and plants, assets etc.

These insurance covers have to be taken prior to start of his work at the subject project and he shall make available the Policy to BHEL Site in-charge for necessary verification before commencement of work. However, irrespective of such verification / acceptance, the sole responsibility to maintain adequate insurance cover for his workmen, T&P, assets etc. at all times during the period of contract shall lie with the contractor. Regarding the aforesaid insurance cover, the contractor shall directly deal with the Insurance Company for all matters regarding the insurance in his scope.

Insurance covers to be taken by BHEL is stipulated under relevant clauses of Vol – IB of this specification (G.C.C.)

18. SITE ORGANISATION

- 18.1 The contractor will depute a competent Engineer/Supervisor for all site operation with sufficient level of authority to take site decision. The organization chart for site should indicate the various levels of experts to be posted for supervision in the various fields as applicable. For proper supervision of the work, the vendor shall ensure providing one qualified supervisor against deployment of 15 workmen.
- 18.2 The contractor shall maintain a site organization of adequate strength in respect of manpower, construction machinery and other implements at all times for smooth execution of the contract. This organisation shall be reinforced from time to time, as required to make up for slippage from the schedule without any commercial implication to BHEL. The site organisation shall be headed by a competent construction manager having sufficient authority to take decisions at site.
- 18.3 On award of contract, the contractor shall submit to BHEL site organisation chart indicating the various levels of experts to be deployed on the job. BHEL reserves the right to reject or approve the list of personnel proposed by the Contractor. The persons, whose bio-data have been approved by BHEL, will have to be posted at site and deviations in this regard will not generally be permitted.

19. PROGRESS REVIEW MEETINGS

Periodic progress reviews on the entire activities of execution in respect of supply & works in scope of bidder will be held once in a month at site. Actions will be placed on the concerned agencies and decisions will be taken to expedite /speed up the progress.

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20. **GENERAL**

- 20.1 Contractor shall provide temporary barricade all round the working area to avoid any untoward incident.
- 20.2 No medical facilities to be provided by BHEL at site. Contractor should arrange first aid facility with compounder at site.
- 20.3 Any other non-conformity noticed not listed above will also be fined. The decision of BHEL engineer is final on the above. The amount will be deducted from bills of the contractor. The amount collected on the above will be utilized for giving award to the employees of various contractors working at site who could avoid accidents by following safety rules and for improving the safety at site. Such award will be decided by the committee consisting of employees of contractors working within the project and be awarded in presence of BHEL representative.
- 20.4 The contractor shall be responsible for providing all necessary facilities like residential accommodation, transport, electricity, water, medical, insurance etc to the personnel engaged by the contractor for the work.
- 20.5 The contractor shall comply with all state and central laws, various labour laws, statutory rules and regulations etc such as.
- 20.6 The payment of wages act, minimum wages act, workman compensation act, Employers Liability act, Industrial dispute act, Employees provident fund scheme, Employees state insurance, contract labour (Regulation and abolition) act 1970 and other acts, rules and regulation for labour as may be enacted by the Government during the tenure of the contract and having force or jurisdiction at site. The contractor shall give to the local government body police and other relevant authorities all such notices as may be required by Law.
- 20.7 The contractor shall make arrangement at their own cost for necessary access to work site.
- 20.8 The security laws as applicable from time to time shall have to be strictly followed by the contractor.
- 20.9 Person below 18 years shall not be engaged / employed by the contractor.
- 20.10 The contractor may have to work round the clock for timely completion of work. The contractor shall not be eligible for any extra charges on this account.
- 20.11 No secured advance shall be paid for this contract.

20.12 Foundation of weigh-bridge shall be made by the contractor at his cost as per requirement of concerned manufacturer of the weigh-bridge.

21.0 DELETED

22.0 LIQUIDATED DAMAGE FOR PACKAGE-A

Subject to force majeure, if contractor fails to complete the enabling job as per aforesaid completion period, BHEL shall have the right to recover as liquidated damages (LD) a sum equivalent to 0.5 % (half percent) of the awarded contract price(Pkg-A),, including taxes, duties for delay of each week or part thereof. The liability for delay shall not in any case exceed 5 % (Five percent) of the executed contract price (Pkg-A), including taxes, duties.

LIQUIDATED DAMAGE FOR PACKAGE-B

Since time is the main essence of the contract, the deployment of weigh-bridge is to be made within the time limit prescribed in this Tender. In case of delay in commissioning/handing over of weigh-bridge for operation at the project site , beyond stipulated period of 50 days, for reasons attributable to contractor, the "Liquidated Damages" clause shall be strictly enforced, at the rate of 0.5% (half percent) of the awarded contract value (package-B) including taxes, duties delayed for each week of delay or part thereof without prejudice to any other relief or

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compensation due to BHEL under any other conditions of the order subject to a maximum limit of 5% of total contract value(package-B).

23.0 TAXES AND DUTIES – Package-A

- 23.1 TDS under Income Tax, VAT etc, if any, shall be deducted at prevailing rates on gross invoice value from the RA bills unless exemption certificate from appropriate authority/ authorities is furnished.
- 23.2 All taxes (except Service Tax including Educational Cess and other cess, if any), Works Contract Tax under VAT Act, charges royalties, duties, Octroi, any state or central levy and other taxes for materials obtained for the work and for the execution of the contract shall be borne by the contractor and shall not be payable extra. Any Increase of the same at any stage during execution of the contract shall have to be borne by the contractor. Quoted rates/ price of the bidder shall be inclusive of all such requirements after taking the input credit, if any, as per provisions of the state VAT Act. The contractor is responsible to furnish all documentary evidences towards payment of Works Contract Tax as and when required by BHEL. Submission of tax invoice is a must after grossing up the bills as the price is inclusive of VAT.
- 23.3 Service Tax: Finance Act, 2007 introduced a new sub-clause (zzzza) to Section 65 (105) which provided for levying Service Tax on execution of works contract with effect from 01-06-07. Notification no 32/2007-Service Tax provides an option (of composition) to the person liable to pay service tax in relation to works contract service to pay an amount equal to 4.12% (at present) of the gross amount charged for the works contract instead of normal rate provided in the Sec 66 of the Act. However, this option of paying service tax @4.12 % (at present) on gross value can be exercised prior to payment of Service Tax in respect of said works contract and the option so exercised shall be applicable for the entire works contract and shall not be withdrawn until the completion of said works contract.
- 23.4 As such, Service Tax as legally leviable & payable by the contractor under the above provisions of applicable law/ Act, shall be paid by BHEL, PSER on contractor's gross bill. However, contractor shall have to submit proof of Service Tax deposited by them immediately after the deposit but not later than the next bill submitted after the due date of deposit. The contractor shall furnish proof of Service Tax registration with Central Excise Division covering the Services as well as exercising the aforesaid option, ie the composition scheme under Notification 32/2007 under this contract. Registration should also bear endorsement for the premises from where the billing shall be done by the contractor on BHEL, PSER for this project. BHEL, PSER will not be held to be responsible for non-compliance of various Service Tax rules, being framed from time to time.
- 23.5 The contractor has to make his own arrangement at his cost for completing the formalities, if required, with State VAT Act Authorities, for bringing their materials, plants and machinery at Site for the execution of the Works under this contract, road permit/ way bill, if required, shall be arranged by the contractor and BHEL, PSER will not supply any road permit/ way bill for this purpose. The contractor must be a registered dealer with the state VAT Act, if not registered yet and a copy of the said registration certificate along with TIN number must be provided to site RAO.
- 236 New tax & duties, if imposed subsequent by statutory authority during contract period (including extension, if the same is not attributable to the contractor), shall be reimbursed by BHEL, PSER on production of relevant supporting document to the satisfaction of BHEL, PSER. However, vendor shall obtain prior approval from BHEL, PSER before depositing new taxes & duties.

23.7 Taxes & Duties – Package-B

- a) Service Tax paid if any, against the billed amount shall be paid by BHEL as per prevailing rates. Vide section 194-C of Income Tax Act, deduction of tax at source is required to be made from payments of the Vendor. Self declaration or Chartered Accounts certificate along with Service Tax Bill /Invoice , containing Service Tax Registration No: to be furnished. In addition

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to that, ST-3 Form on half-Yearly basis is required to be submitted to the concerned Site RAO along with reconciliation of Service Tax for that particular Site against collection received from that SITE.

24.0 CONTRACT PRICE

24.1 The bidder shall quote their rates strictly in accordance with prescribed rate schedule of Volume-IIIA.

24.2 The quantities of various items mentioned in the BOQ cum rate schedules of items of Volume-IIIA are approximate, based on very preliminary information and may vary to any extent or to be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of the work executed under any part of the this contract including extra items, if any, but excluding any price variation, remains within +/- 30 % (plus/minus thirty percent) of the awarded price as per LOI/ WO.

24.3 As per terms & conditions / BOQ cum rate schedule of items of this tender for Package -A & Package-B, BHEL may issue two separate orders for the above Package-A & Package-B

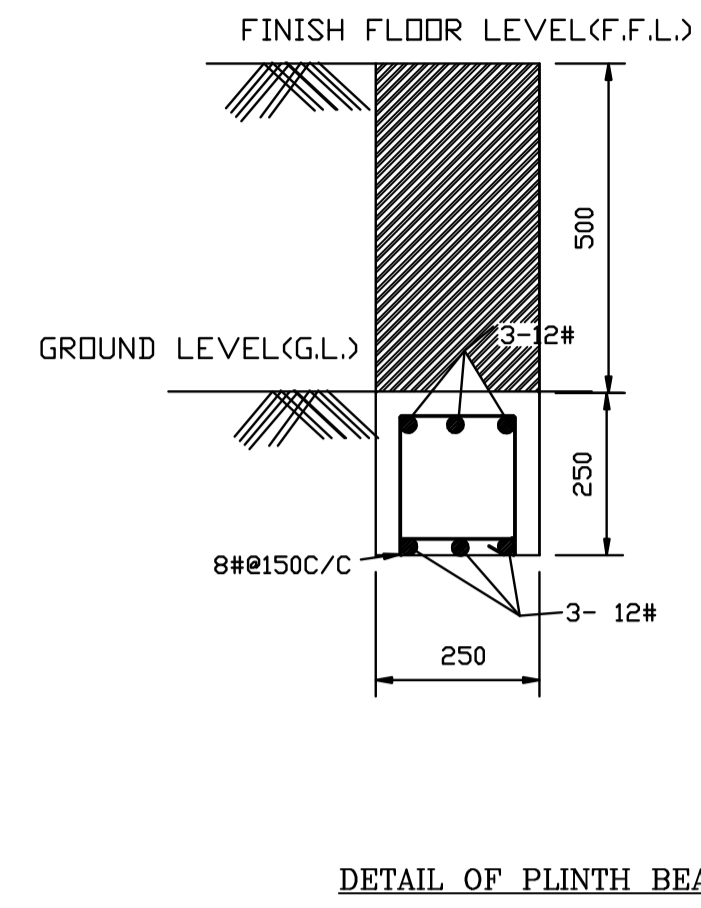
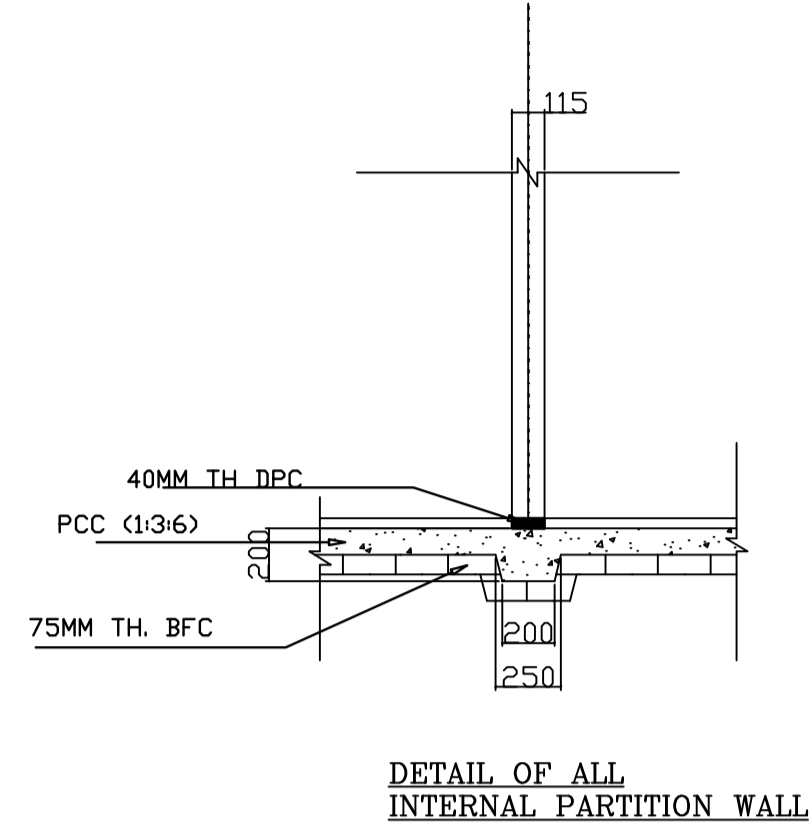
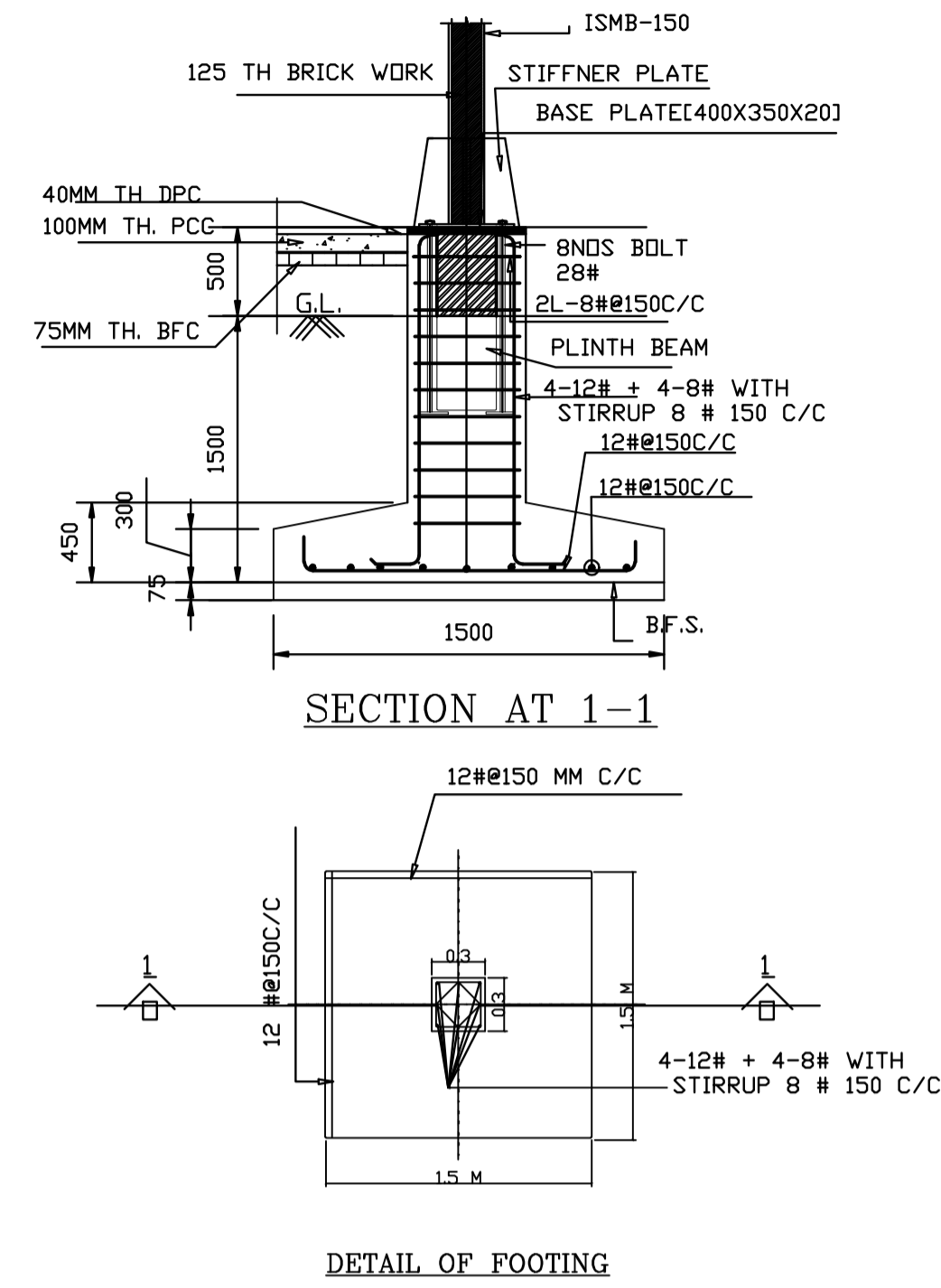
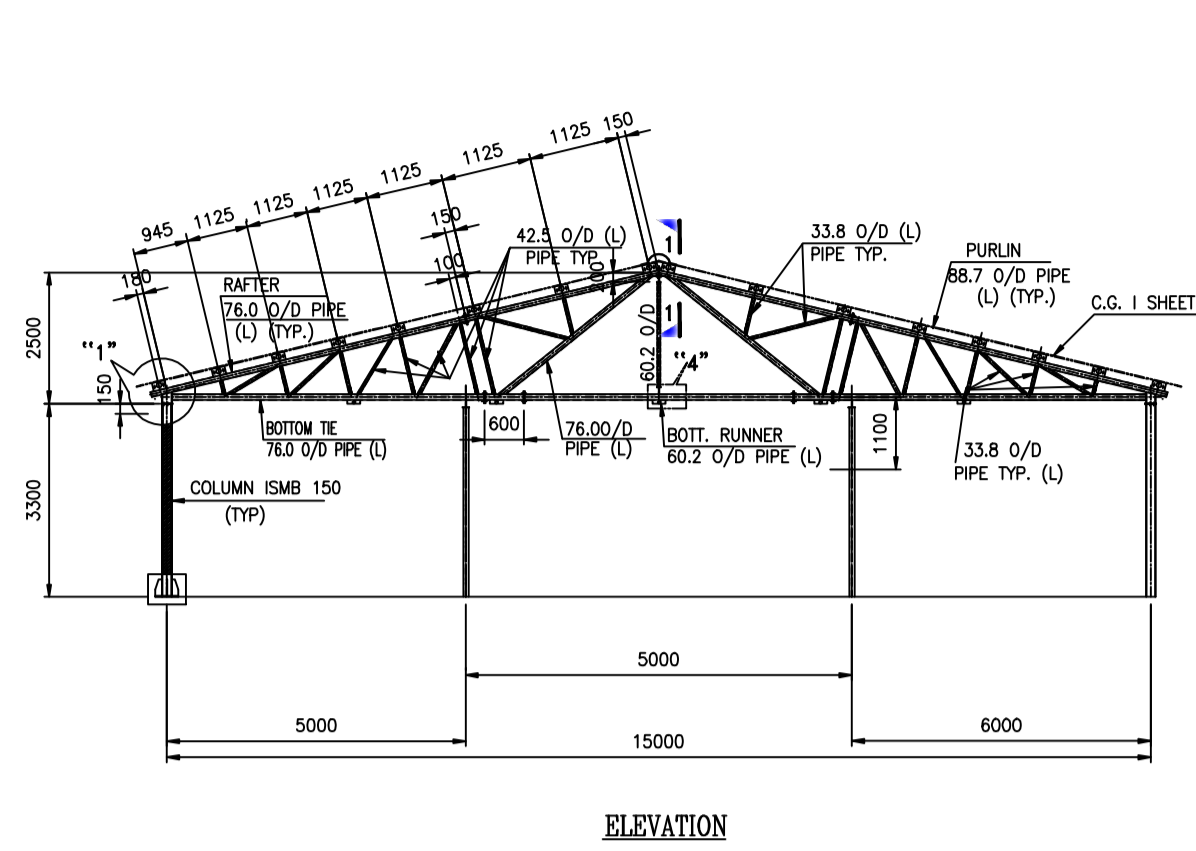
25.0 GUARANTEE PERIOD PACKAGE-A

25.1 Even though the work will be carried under supervision of BHEL engineers, bidder will be responsible for the quality of the workmanship and shall guarantee the work done for a period of 12 months from the date of start of guarantee period of work done, as certified by the engineer for good workmanship and shall rectify free of cost all defects due to faulty erection. In case bidder fails to repair the defective works within the time specified by engineer, BHEL may proceed to undertake the repairs of such defective works at contractor's risk and cost without prejudice to any other rights and recover the same from SD/ other dues.

25.2 The guarantee period will commence from the date of completion of total job and handing over to BHEL and as certified by BHEL engineer.

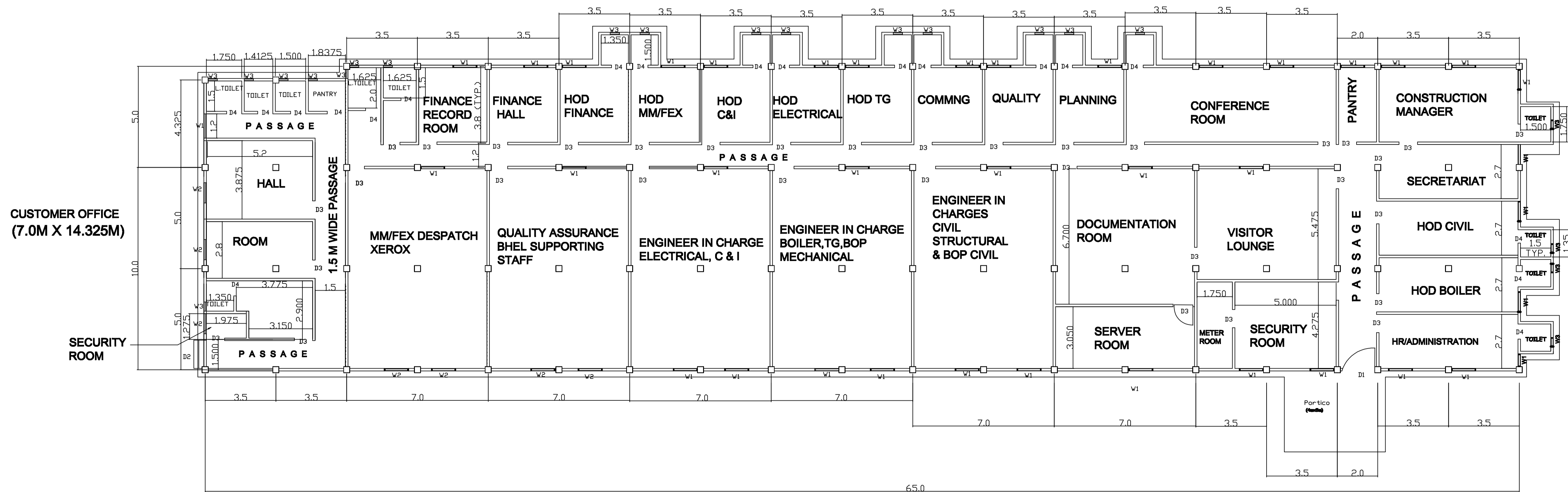
26.0 GUARANTEE PERIOD PACKAGE-B

The bidder will be responsible for the quality of the workmanship and shall guarantee the performance of weigh bridge throughout the hiring period of 26 months, as certified by the engineer for good workmanship and shall rectify all defects free of cost (on call basis). In case bidder fails to repair the defective works within the time specified by engineer, BHEL may proceed to undertake the repairs of such defective works at contractor's risk and cost without prejudice to any other rights and recover the same from SD/ other dues.



DOOR AND WINDOWS SCHEDULE

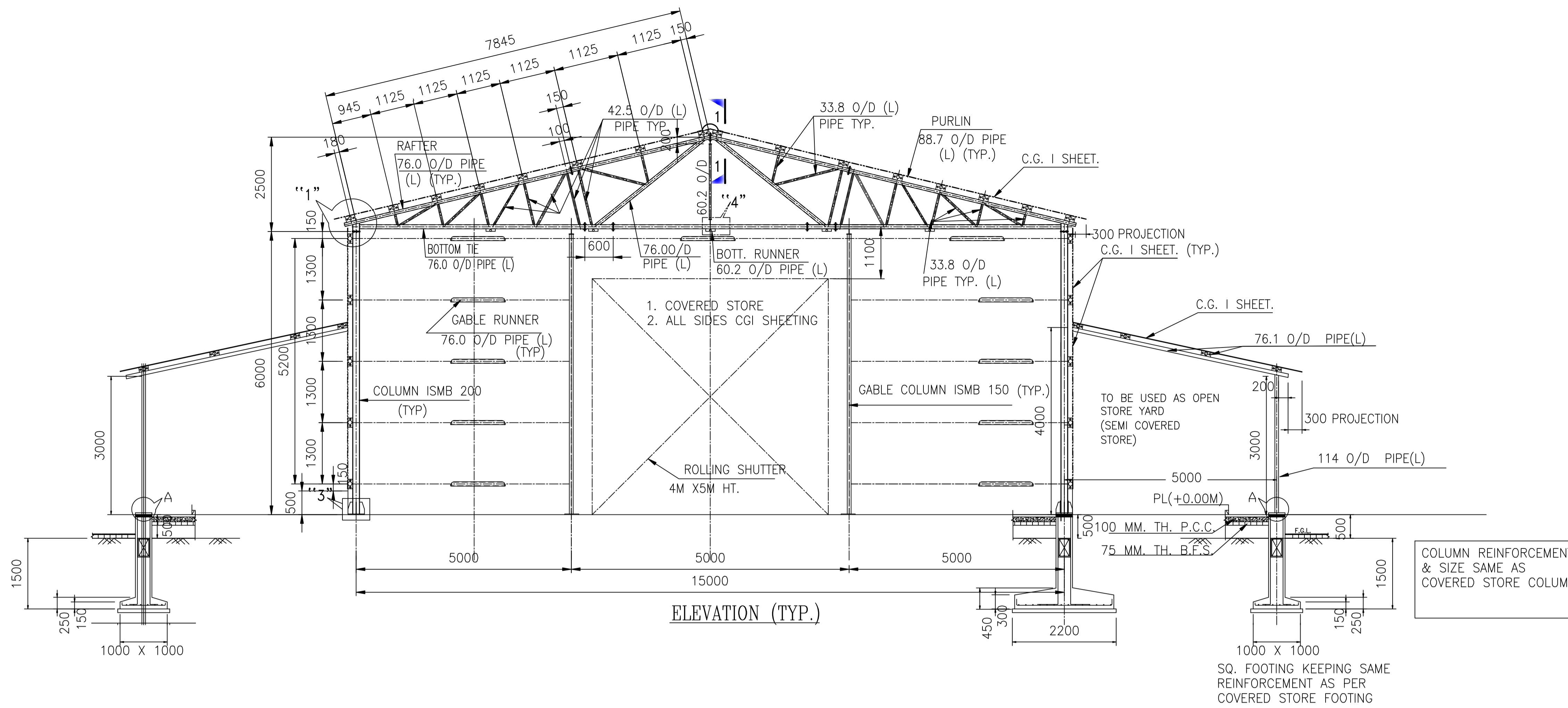
TYPE	DESCRIPTION	WIDTH (mm)	HEIGHT (mm)
D1	ENTRANCE DOOR	2000	2100
D2	ENTRANCE DOOR CUSTOMER	1500	2100
D3	DOOR	900	2100
D4	TOILET DOOR	750	2100
W1	DOUBLE LEAF WINDOW	900	1200
W2	SINGLE LEAF WINDOW	500	1200
W3	TDP HUNG	450	600



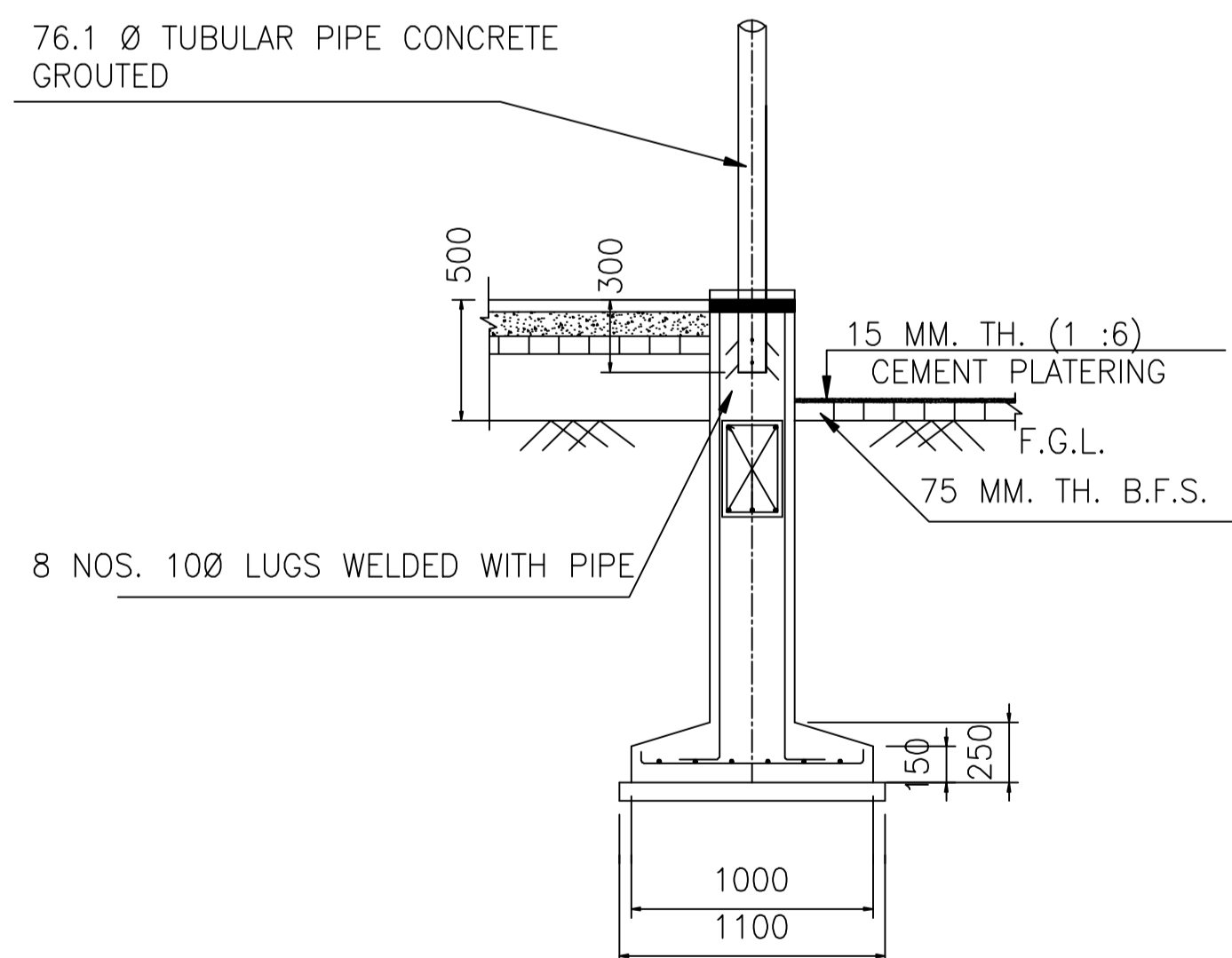
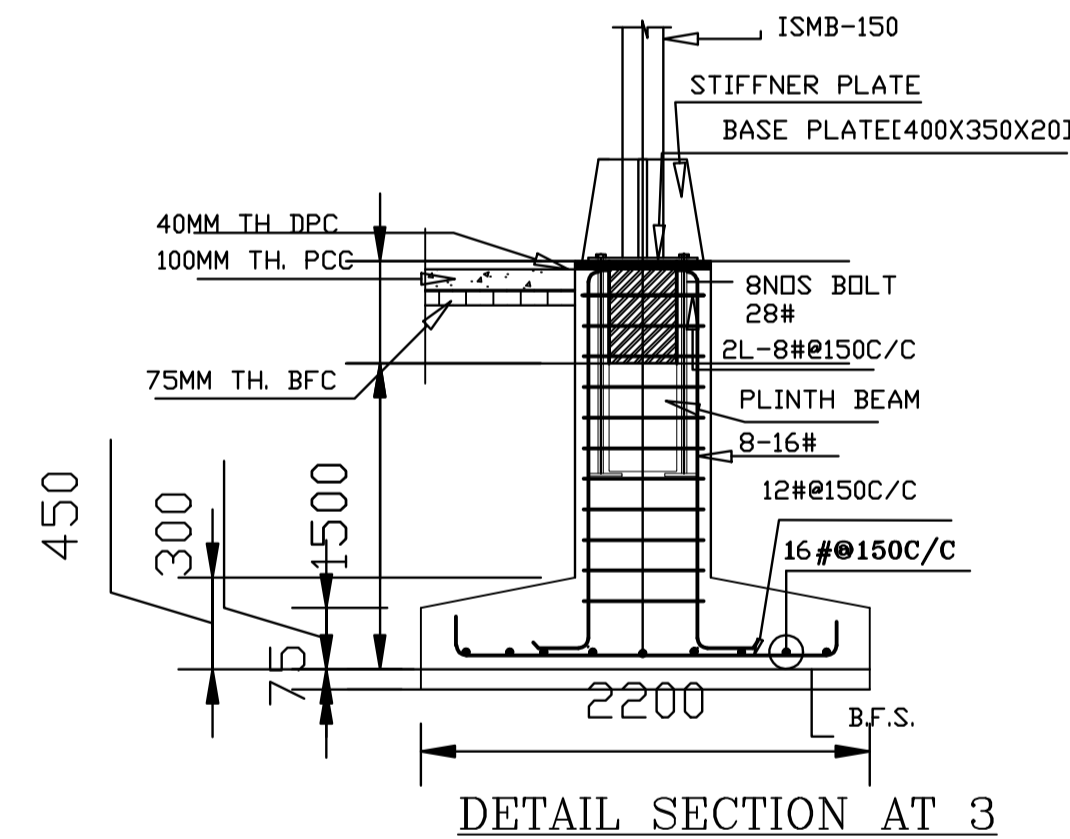
- NOTES:-**
1. ALL DIMENSION ARE IN MILLIMETRE AND METRE UNLESS OTHERWISE NOTED.
 2. HEIGHT OF THE FALSE CEILING OF OFFICE AT 2.9 M. & TRUSS TO FINISH FLOOR LEVEL HEIGHT 3.3 M
 3. ALL MEMBER LENGTHS ARE TO BE CHECKED BY FULL SCALE SHOP LAYOUT.
 4. FOUNDATION, COLUMN, BEAMS ETC. SHALL BE OF RCC CONCRETE SHALL BE M25.
 5. FLOOR CONCRETING SHALL BE 1:2:4
 6. ALL LEAN CONCRETE SHALL BE 1:4:8.
 7. TMT BAR OF FE 415/FE 500 QUALITY TO BE USED WITH MANUFACTURING CERTIFICATE.
 8. CEMENT TO USED PS/PPC OR OPC 43 GRADE WITH MANUFACTURING TEST CERTIFICATE.
 9. PLINTH LEVEL OF BUILDING SHALL BE 500 MM HIGHER THAN EXISTING GL(FGL).
 10. OUT SIDE PLASTERING WITH WATER PROOFING PAINT SHALL BE DONE.
 11. NO LINTEL AS 300 MM PROJECTION DONE ALL SIDES.
 12. ALL WALL THICKNESS 115 MM
 13. BRICK WORK - CLASS DESIGNATION 5 (COMPRESSIVE STRENGTH 50 KG/CM2)
 14. PERIPHERAL HEIGHT OF WALL 2.9 FOR ALL PERIPHERAL WALL
BUT ALL OTHER PARTITION WALL HEIGHT WILL BE 2.1 M
 15. TUBULAR STRUCTURAL WORK ARE SIMILAR DRAWING NO ER-DG-319-ENAB-02

TENTATIVE DRAWINGS FOR TENDER PURPOSE

CLIENT :- BHARAT HEAVY ELECTRICALS LIMITED.	
CONTRACTOR :-	
DRN.	TITLE :- ENABLING DRAWINGS FOR OFFICE
CHKD.	AT 2x 363.3 MW GAS BASED CAPP PROJECT
APPVD.	PALATANA, UDAIPUR, TRIPURA.
SCALE	REV.
DRG. NO.	ER-DG-319-ENAB-04
	R1



**CROSS SECTION
SEMI COVERED STORE**

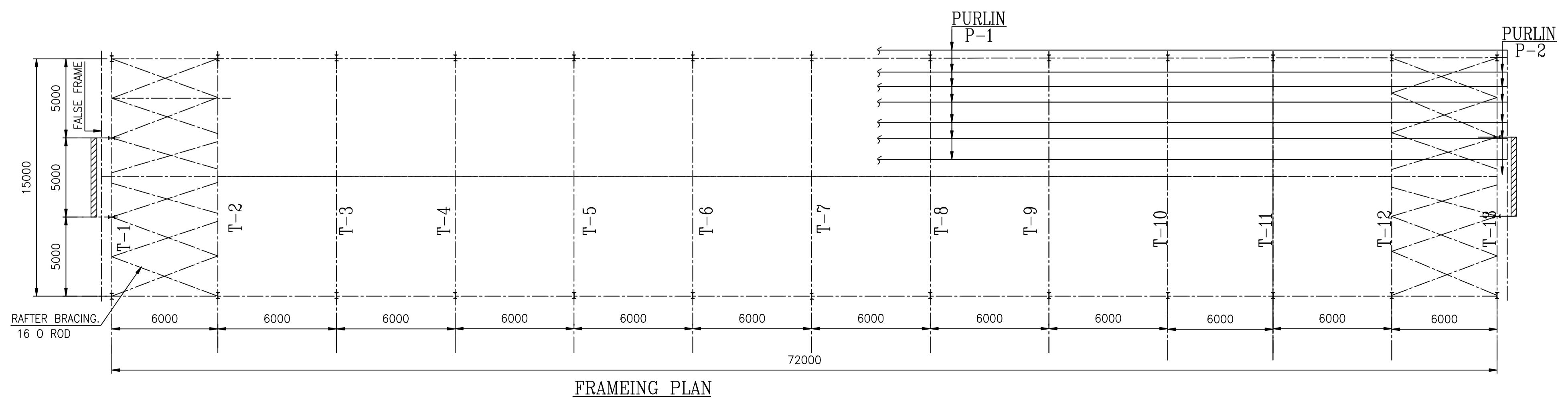
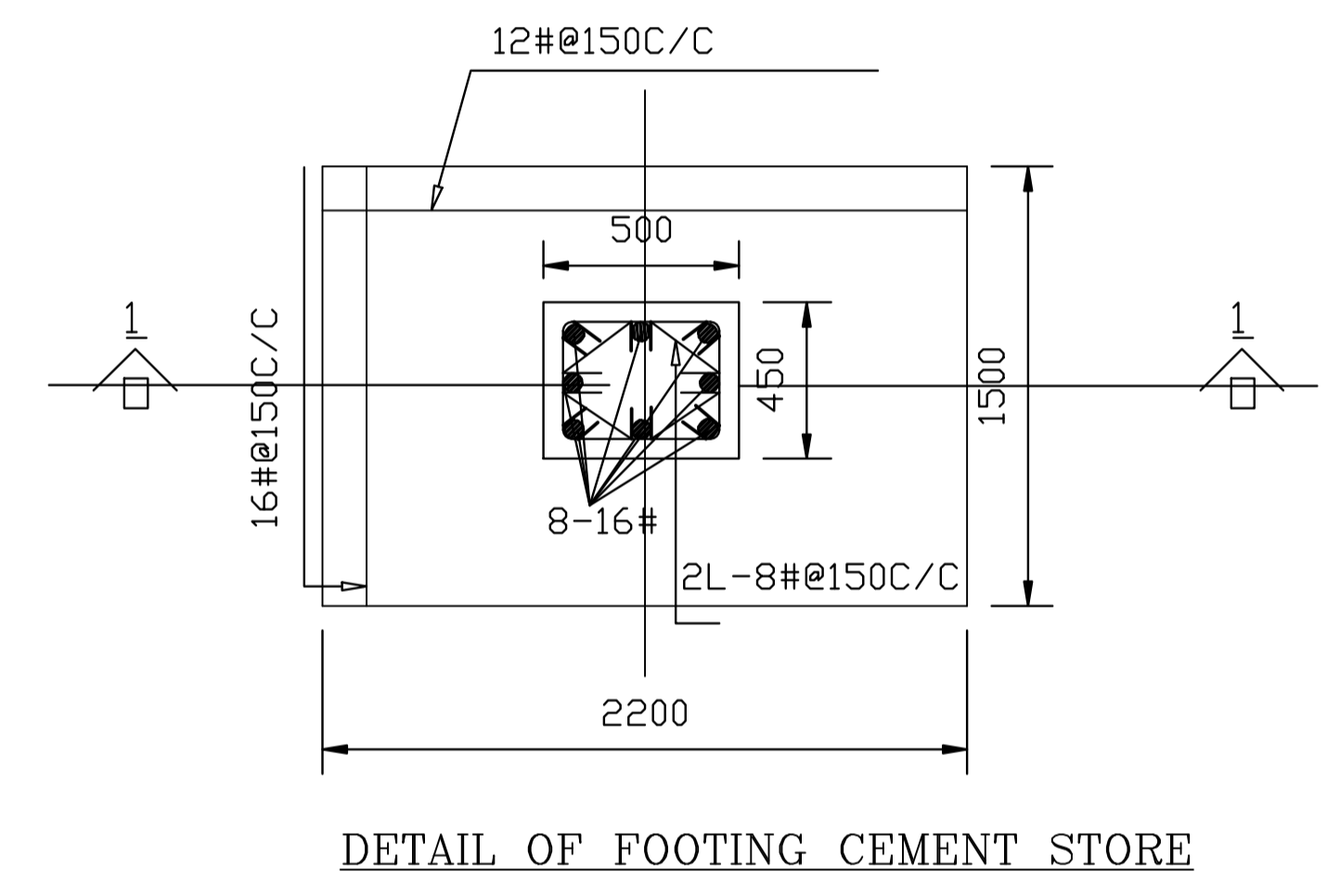
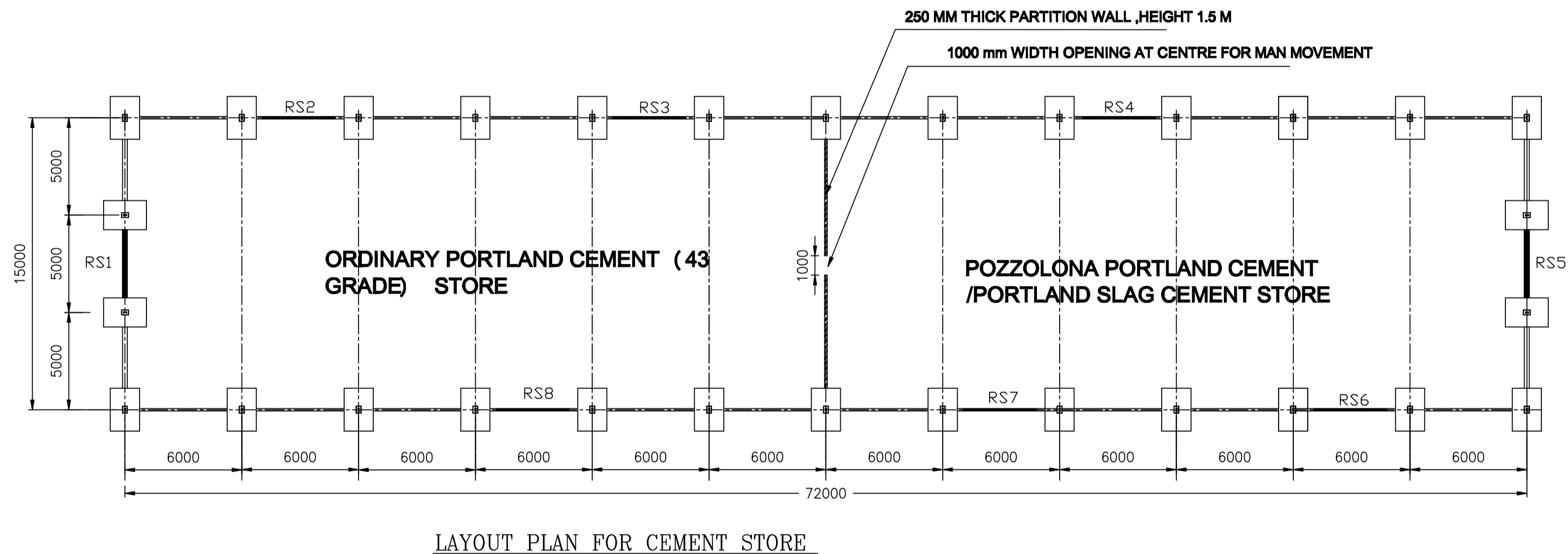
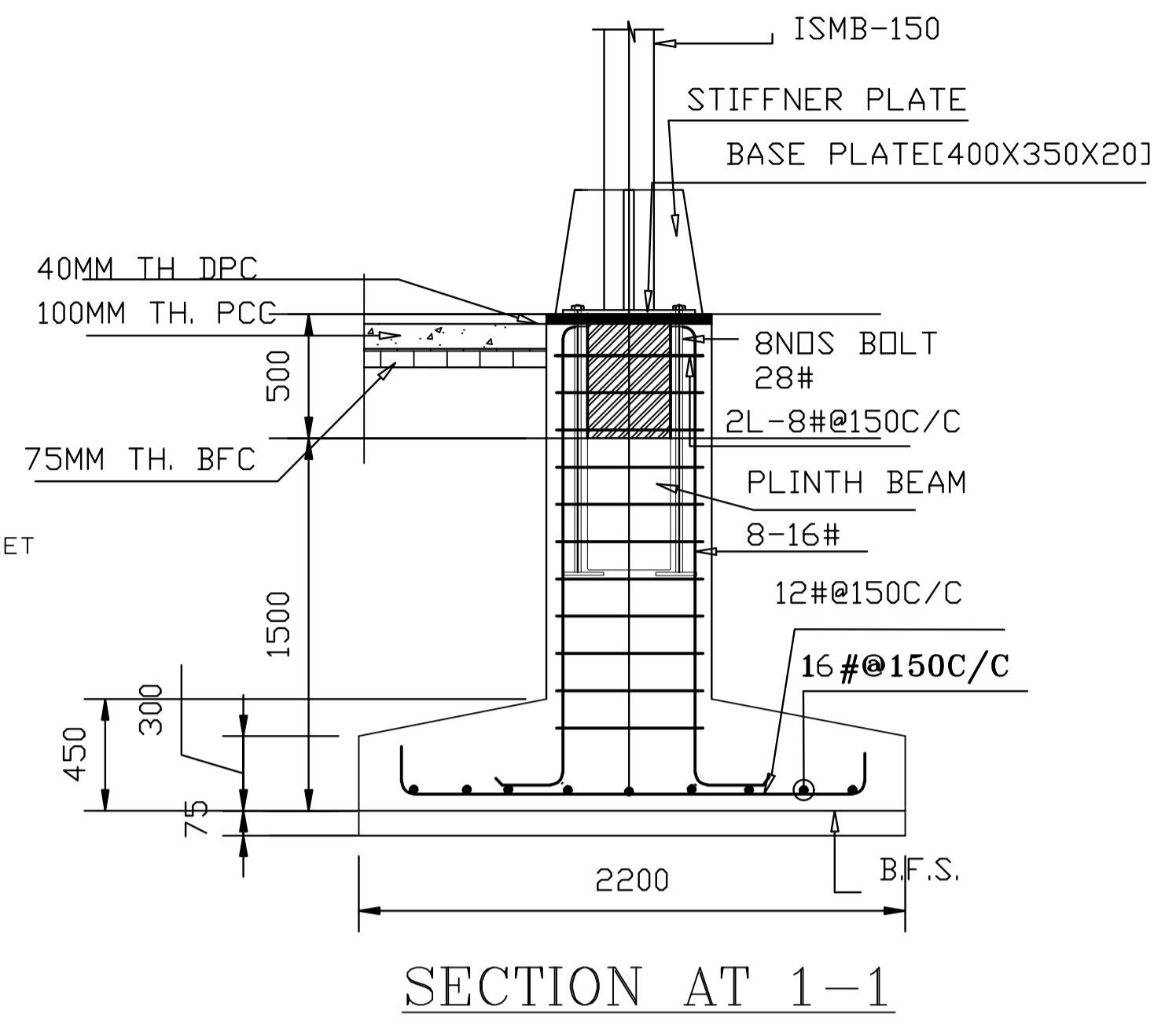
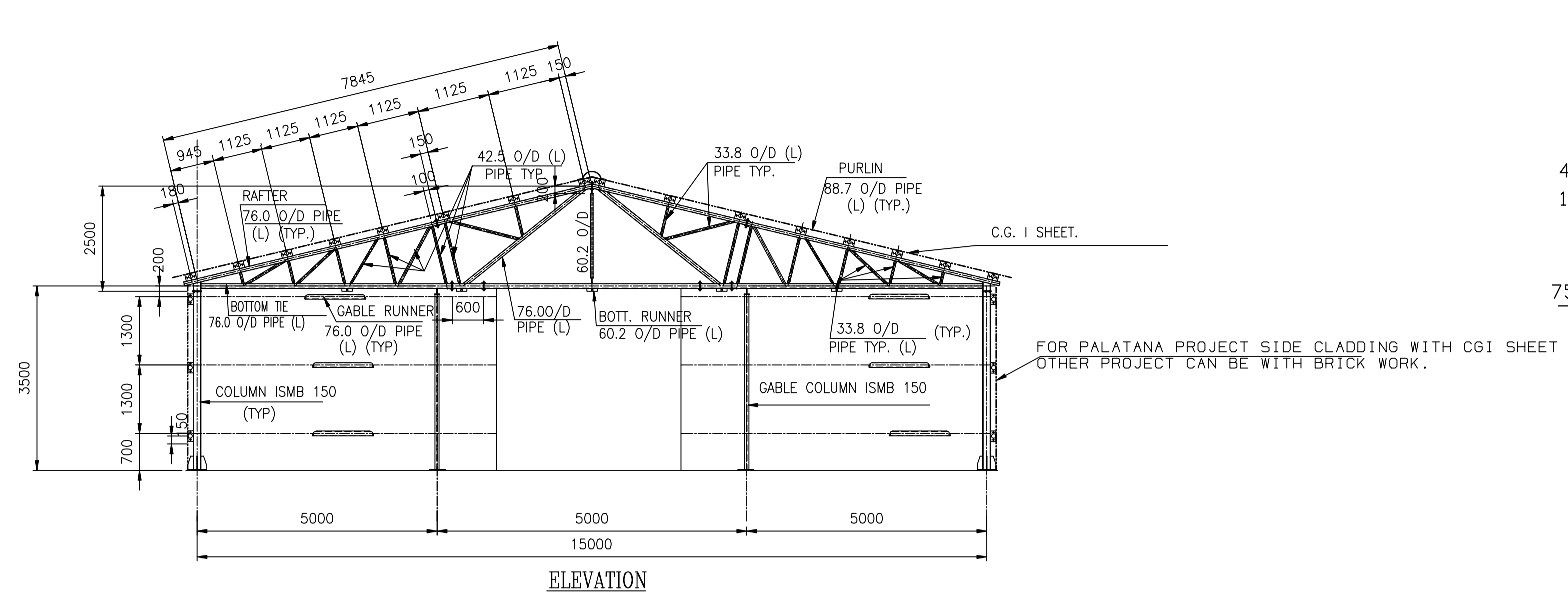


NOTES:-

1. ALL DIMENSION ARE IN MILIMETRE UNLESS OTHERWISE NOTED.
2. ALL FILLET WELDS ARE IN 3 MM. FOR TUBULAR.
3. ALL MEMBER LENGTHS ARE TO BE CHECKED BY FULL SCALE SHOPE LAYOUT.
4. STRUCTURAL DESIGN & DRAWING BASED ON MAITHON PROJECT.
5. OFFICE BUILDING HEIGHT IS 3 M.
6. FOUNDATION, COLUMN, BEAMS ETC. SHALL BE OF RCC PROPORTION 1:1.5:3.
7. FLOOR CONCRETING SHALL BE 1:2:4.
8. ALL LEAN CONCRETE SHALL BE 1:4:8.
9. PLINTH LEVEL OF BUILDING SHALL BE 500 MM HEIGHER THAN EXISTING GL(FGL).
10. OUT SIDE PLASTERING WITH WATER PROOFING PAINT SHALL BE DONE.
11. TUBULAR STRUCTURAL WORK ARE SIMILAR DRAWING NO ER-DG-319-ENAB-02
12. INSIDE WALL PLASTERING NOT ENVISAGED, ONLY WHITE WASHING HAS BEEN CONSIDERED.
13. STEEL FIXED WINDOW SHALL BE PLACED AT ALTERNATE SPAN CENTRE POSITION, JUST BELOW LINTEL BEAMS, SIZE OF EACH FIXED WINDOW SHALL BE 2M.X600 MM
14. COVERED STORE HEIGHT IS 6.0 M.
15. SEMI-COVERED STORE HEIGHT IS 3.0 M.
16. CEMENT STORE HEIGHT IS 3.5 M.
17. SEMI- COVERED STORE SHED DESIGN WILL BE AS PER ACTUAL SITE CONDITION.

TENTATIVE DRAWINGS FOR TENDER PURPOSE

CLIENT :-		BHARAT HEAVY ELECTRICALS LIMITED.	
CONTRACTOR :-			
DRN.		TITLE :- ELEVATION DRAWING FOR COVERED STORE/SEMI COVERED STORE FOR PALATANA PROJECT	REV.
CHKD.			
APPVD.			
SCALE			
DRG. NO.	ER- DG-319-ENAB-03		3



- NOTES:-**
1. ALL DIMENSION ARE IN MILIMETRE UNLESS OTHERWISE NOTED.
 2. ALL FILLET WELDS ARE IN 3 MM. FOR TUBULAR. 6 MM. FOR STRUCTURALS. UNLESS OTHERWISE NOTED. (AS PER 1:5 816 LATEST)
 3. ALL MEMBER LENGTHS ARE TO BE CHECKED BY FULL SCALE SHOPE LAYOUT.
 4. STRUCTURAL DESIGN & DRAWING BASED ON MAITHON PROJECT.
 5. FOUNDATION, COLUMN, BEAMS ETC. SHALL BE OF RCC PROPORTION 1:1.5:3.
 6. FLOOR CONCRETING SHALL BE 1:2:4.
 7. ALL LEAN CONCRETE SHALL BE 1:4:8.
 8. PLINTH LEVEL OF BUILDING SHALL BE 500 MM HIGHER THAN EXISTING GL(FGL).
 9. OUT SIDE PLASTERING WITH WATER PROOFING PAINT SHALL BE DONE.
 10. FOUNDATION R.C.C. WORK ARE SIMILAR DRAWING NO ER-DG-319-ENAB-01
 11. TUBULAR STRUCTURAL WORK ARE SIMILAR DRAWING NO ER-DG-319-ENAB-02
 12. INSIDE WALL PLASTERING NOT ENVISAGED, ONLY WHITE WASHING HAS BEEN CONSIDERED.
 13. STEEL FIXED WINDOW SHALL BE PLACED AT ALTERNATE SPAN CENTRE POSITION, JUST BELOW LINTEL BEAMS, SIZE OF EACH FIXED WINDOW SHALL BE 2M.X600 MM
 14. CEMENT STORE HEIGHT IS 3.5 M.
 15. 4 NOS. ROLLING SHUTTER (RS- 3.5M WIDE X 3.5M H.) FOR EACH i.e., OPC(43 GRADE) AND PSC/PPC CEMENT STORE

TENTATIVE DRAWINGS FOR TENDER PURPOSE		
CLIENT :-		BHARAT HEAVY ELECTRICALS LIMITED.
CONTRACTOR :-		
DRN.		TITLE :- CEMENT STORE FOR PALATANA PROJECT
CHKD.		
APPVD.		
SCALE		
DRG. NO.	ER- DG-319-ENAB-05	REV.
		1

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Pkg-A Construction of covered / semi-covered stores, site office, security kiosk, misc enabling civil works, etc including associated electrical wiring, fittings. etc. and Pkg-B :Supply of Avery make 60 T weighbridge on hire basis at unit # 1 & 2 of 726.6 (2x363.3) MW Gas Based CCPP at Palatana , Udaipur , Tripura.	
Ref	1.0	Tender no PSER:SCT:PAL-C1081:10.
	2.0	BHEL's NIT, vide reference no Ref: PSER:SCT:PAL-C1081:10 Dated 06-02-10
	03	BHEL's TCN-01, vide reference no PSER:SCT:PAL-C1081:TCN-01, dated 25-02-10.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)