



**Corrigendum 3**

Name of the Work:EnC works for Mech., Elec., C n I and Material Handling works for 2xFr.6B GTG at RUPPL, Dahej  
Tender No.: BHEL/PESD/RUPPL-GTG/E&C/001  
Bid Opening Date:07.09.12,14:00 Hrs.  
With reference to above tender, following clarification as part of corrigendum –3 is released.

Sr. No	Chapter No.	Page No.	Tender Clause No.	DETAIL	Bidders Query	BHEL Clarification
<b>TCC Volume I C</b>						
1	2	6	1	Receipt/ Collection of BHEL Material from Road/ Railway/ transporters' Godown	Limit of distance from Erection site is to be specified.	Most of the material shall be dispatched to site store located near to site of erection.If required, few consignments of less than 5 Tons shall be Received/ Collected from Road/ Railway/ transporters' Godown within a distance of 60 km
2	2	6	2	Collection Of Material from BHEL/ Client Store / Store Yard .....	A)Location is assumed within plant premises - within 500 Mtr.	Stores and site of erection are located in RUPPL complex.
					B)BHEL should confirm unloading of Heavy Equipments directly on foundation/ near by to foundation/Erection site, to avoid time consuming job, overhead costs due to multiple handling, loading, unloading & shifting	Confirmed.

Sr. No	Chapter No.	Page No.	Tender Clause No.	DETAIL	Bidders Query	BHEL Clarification
3	2	6	3	Providing 02 Nos. Portable Cabin on Rental basis	Some where in Tender it is mentioned 12 months period while at other it is 16 months. To be clarified the exact time period.	As per NIT, Project schedule is 12 months for E&C+4 months for PG test. Hence, Porta cabins are required on rental basis for 16 months & same is indicated in Price schedule.
4	2	6	16	Coating/ Rapping of Buried/ Under Ground Pipe as required.	Tentative quantity is required.	No underground piping is in bidder scope. However, part of piping will be in trenches where coating or wrapping is not required.
	4	56	4.17			
5	2	7	24	Dismantling of BHEL Store	Annex-3 not found in Tender Document	Annexure-3 Storage area layout is available in file-4 after Annexure-2(Portable cabin Specification.
6	3	8	3.1.1 (A) & (B)	Open Space for Office/ Store	Location should be within 500 Mtrs.	Space for bidders stores & office shall be allocated within RUPPL complex.
7	3	8	3.1.2(A)	Space for Labour Colony by BHEL	Either chargeble or free? Within erection site premises or near by erection site?	Space for Labor colony is free
8	3	9	3.2.1 (A) & (B)	Providing Free Construction Electrical Suply	In point (3.3.1) it is mentioned that BHEL will provide construction power at free cost while in (B) it is asked to arrange construction power at his own cost by contractor if construction power is inadequate/ non- available... <b>To be confirmed</b>	BHEL will provide construction power at free of cost. However, bidder shall arrange power in case of inadequate supply / non-availability of construction Power from customer, at his own expenses to meet project schedules.

Sr. No	Chapter No.	Page No.	Tender Clause No.	DETAIL	Bidders Query	BHEL Clarification
9	3	10	3.3.1 (A) & (B)	Providing Free Construction Water Supply	In point 3.3.1 it is mentioned that BHEL will provide construction water at free cost while in (A) & (B) it is asked to arrange construction water at his own cost by contractor if construction power is inadequate/ non- available... <b>To be confirmed</b>	BHEL will provide construction water at free of cost.However, bidder shall arrange water in case of inadequate supply / non-availability of construction water from customer, at his own expenses to meet project schedules.
10	5	23	5.1.1	The total <b>contract period is 16 Months</b> from the date of LOI and the bidder has to complete the entire erection & <b>commissioning of both the sets within 12 months</b> in all aspects including trial run.	Time period of contract is to be confirmed	Contract period is 16 months but project commissioning period is 12 months
11	10	35	4	Scope of Equipment for ETC...30 mtr. high bypass stack..	Stack design detail/ Drg....ducts/sections, including tonnage is to be provided ...	Drawing no. 1-364-09-61019 Rev 00 No of sheets:02 with tentative details of Stack is attached herewith.
	3	53	3.15	The Bypass Stacks will be supplied in pre insulated loose ducts / sections and have to be assembled / erection at site involving welding, bolting, tack welding, insulation at joints		
12	10	35	9, 10, 12	Sp. Tools & tackles, Spares, Boroscope kit..	This points are not related to scope of work .....to be removed..	These items are supplied by BHEL and handling of these equipment is in bidder scope.

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13	11	40	NOT (1)	Tentative input plot plan (Annexure-5)	Annexure-5 not found with Tender Documents	Annexure-4 Plot plan is available in file-4 after Annexure-3(Storage area layout).
<b>TCC Part - II</b>						
14	1	45	1.27	All Racks... Defects noticed during testing testing of these rack of these racks will have to be rectified by the contractor free of charges.	Contractor responsibility is limited upto providing manpower assistance for attending defect at site.	Accepted.
15	1	47	1.4	Customer has taken the marine cover and erection all risk cover insurance.....For any damage / loss to the material during inland transportation, storage, erection, final testing, commissioning stage etc., contractor shall intimate promptly to BHEL/customer and shall prepare & submit the necessary detailed report /documents / information, facilitating inspection / discussions by the officials / surveyors deputed by insurer with all expenditure on contractor's account.....	Only in case of losses/ damage arise due to contractor.	Please follow bid spec.

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16	1	49	1.47	For structures, supports, stairways, platforms, galleries, hand rails, grills, etc.....Also it may sometimes be necessary to remove some of the erected members to facilitate erection of bigger / pre-assembled equipment. In such cases, the removal and re-erection of such works as agreed by BHEL Engineer will have to be done by contractor as incidental to work	Modification / Rectification required in main structure members like Column/ Beam etc., if any, shall be taken care by BHEL.	Please follow the bid spec.
17	2	51	2.8 & 2.9	Buildings, foundations and other necessary civil works..... & All minor foundations and anchor points required for installing erection equipment.....	Repeat Clauses...Already this points are covered in point no. 2.1 & 2.2	Noted.
18	4	54	4.1	The scope of work in piping system (air, Gas, Water, Oil, Steam etc.) will include cutting to required length, edge preparation, laying, fixing and welding of the elbows/fittings/valves etc.,	All piping material $\geq \text{Ø } 76$ mm shall be supplied at site in standard length/ spools with edge prepared, weldmets and tapping as per erection drawing. Contractor scope is only to lay pipe, fittings, welding in position and testing.	Please follow bid spec.
19	5	58	5.2, 5.9, 5.12, 5.22	Welding work, IBR Welder, Stress Relieving, Electrical Heting, Heat treatment...etc	Requirement of these points is to be confirmed.	Please follow bid spec.

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20	5	60	5.22	All charges for testing of contractor's welders including destructive and non-destructive tests conducted by BHEL at site shall have to be borne by the contractor. However for initial testing of welders <b>the test will be provided by BHEL</b>	Initial all required <b>Test Pieces shall</b> be provided by BHEL	Test pieces will be provided by BHEL for all welding test purpose.
21	6	66 & 67	6.1.3 & 6.1.6	....the contractor shall fabricate the base frame from structural items at site. Payment for such fabrication will be effected on measured quantity at the rate applicable for structural steel fabrication and installation.	Supply of steel scope & Rates to be confirmed..No provision of providing rates in Price Bid.	Supply & fabrication of 2 Tons of Structural steel (ISMC100x50mm) for base frames shall be considered as part of quoted price for the tender.
22	6	67	6.1.7	Normally the panels shall be supplied with meters, relays, electronic modules, contactors, pushbuttons etc mounted and pre-wired. However, if such devices are supplied loose/separately for	Internal wiring of Panel, if any required, same shall be arrange by BHEL/ Equipment Supplier/ OEM.	Please follow bid spec.
23	6	68	6.2.4	Rubber mats shall be supplied by bidder for placing in front of LT switchgear panels and the same shall be laid wherever required as part of work.	Tentative qty. is required along with detail of area of work in scope.	As per IEEE rules the rubber mats have to be supplied and placed by the bidder for LT switch gear panels.

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24	8	92, 96	8.9, 9.12	In case any defect is noticed during tests, trial runs of all equipment and their auxiliaries, such as interferences, rubbing, loose components, abnormal noise or vibration, strain on connected equipment etc., the contractor shall immediately attend to these defects and take necessary corrective measures.	Any manufacturing defect noticed in the equipment shall be taken care by BHEL. Supply of required spares shall be in the scope of BHEL	Please follow bid spec.
25	8	93	8.11	PRESERVATION OF COMPONENTS	Supply preservatives paints/ lubricant/ inhibitors and other required material etc. shall be taken care by BHEL	Please follow bid spec.
26	9	95	9.7	The contractor shall associate for initial and subsequent filling of gas in generator gas system as & when required till unit is handed over to customer.	Supply of gas shall be in the scope of BHEL	Noted.
27	9	95	9.9	Replacing/changing mechanical/other seals of equipment, pumps etc. during commissioning stage is within the scope of work.	Supply of required spares/ seals etc. shall be in the scope of BHEL	Noted.

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28	9	97	9.18	During commissioning, opening of valves, changing of gaskets, checking, realigning of rotating and other equipment, attending to leakages in piping, tanks etc. and adjustments of erected equipment may arise. Valves shall be serviced and lubricated to the satisfaction of BHEL..	Supply of spares/ gaskets/ consumables shall be in the scope of BHEL	BHEL will supply spares and hardwares. Consumables are in the scope of bidder.
29	9	97	9.19	It is the responsibility of the contractor to provide for necessary resources till the completion of work under these specifications, even in case erection, testing and commissioning of the GTG and other equipment are delayed due to reasons not attributable to the contractor.	Shall be charged extra for engaged manpower + Establishment Cost + Consumable & T&P cost	BHEL clarifies that the overall contract period shall prevail.

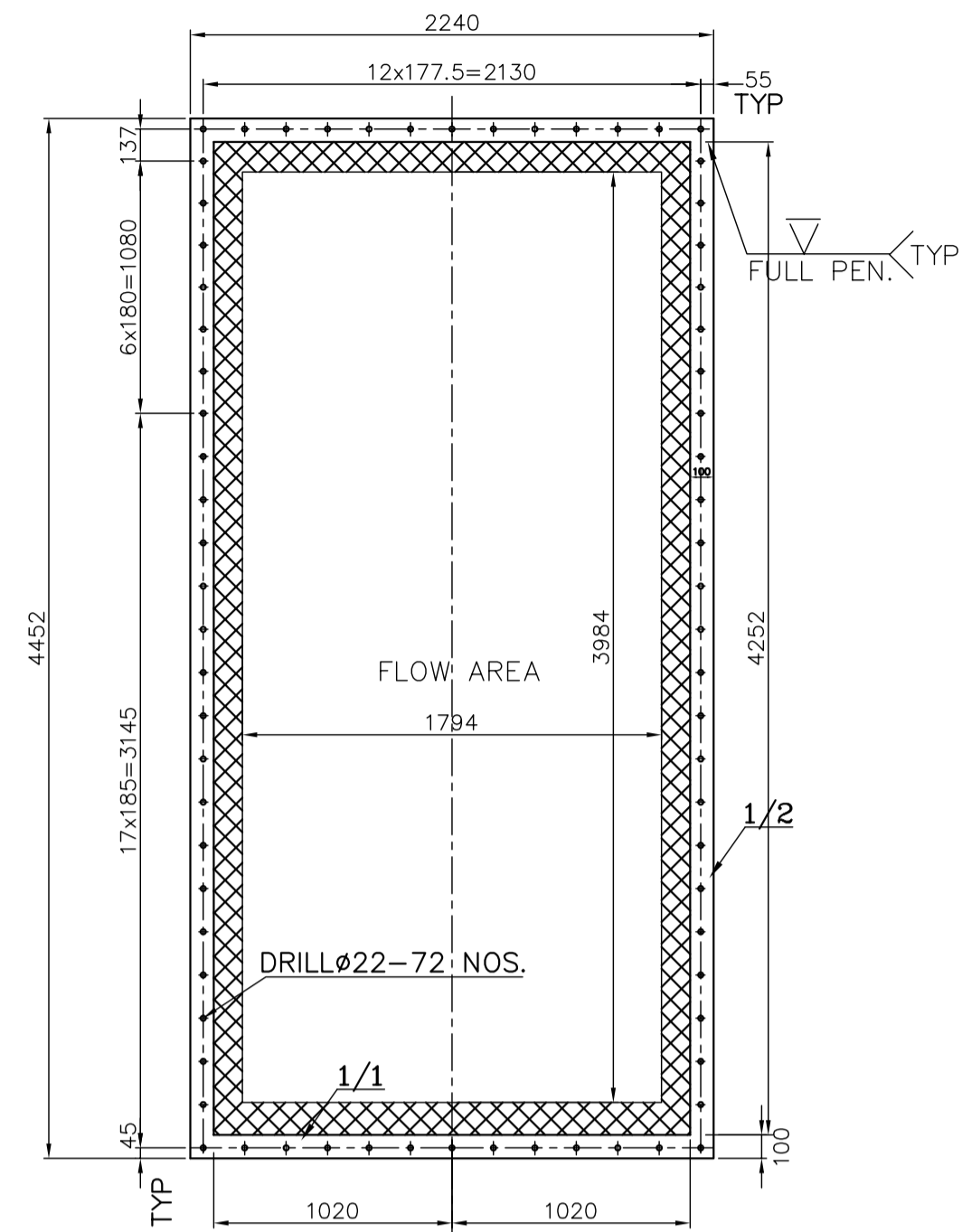
Bidders are requested to submit a copy of this corrigendum(as part of technical bid) duly signed by the authorized signatory & stamped with official seal as a token of Bidder's unqualified acceptance to this corrigendum.

Sd/-  
Sr. DGM ( E&C)  
PE & SD, BHEL, R.C. PURAM  
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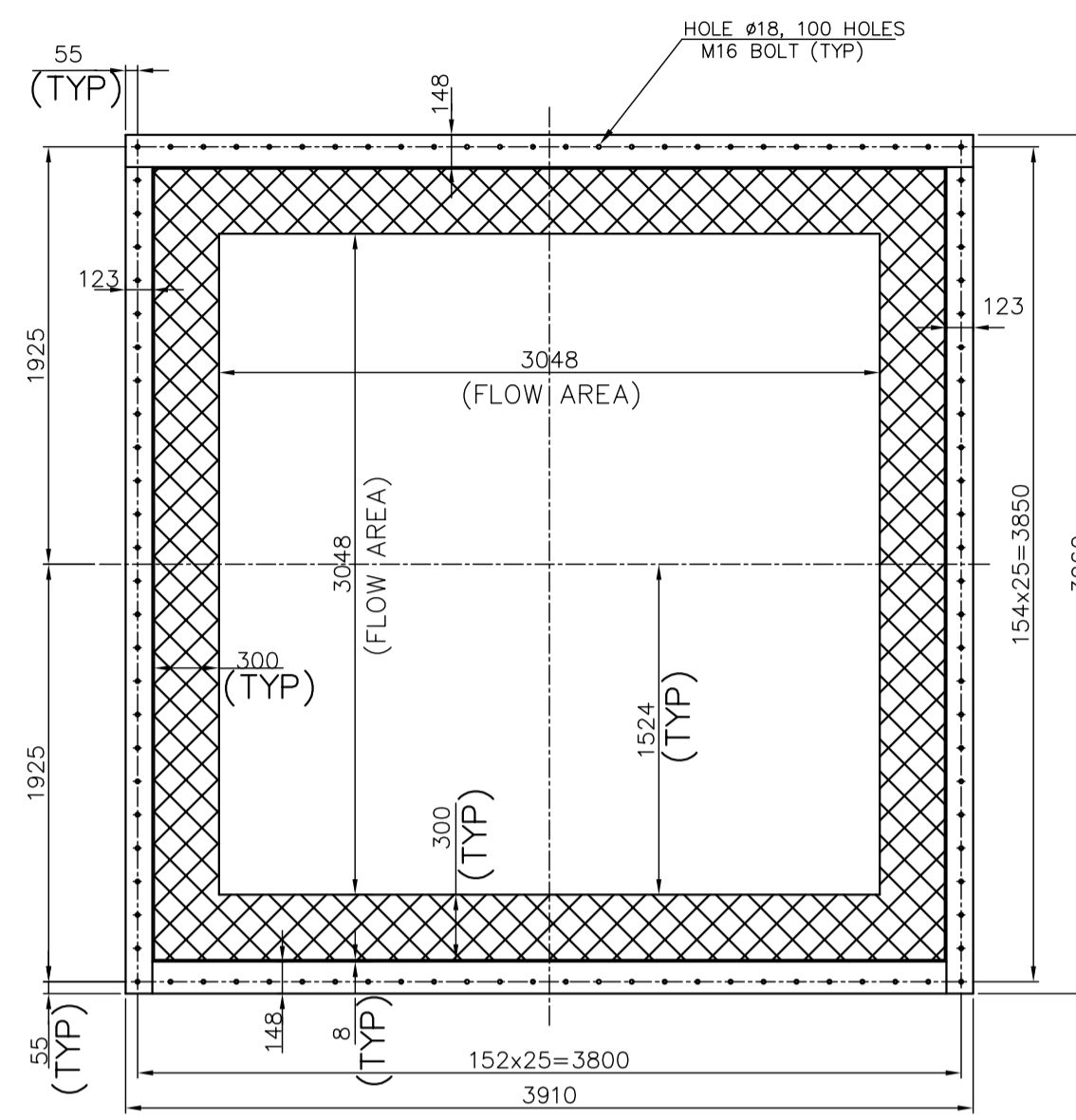
DRG. NO. 1-364-09-61019 SH. 02 OF 02

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GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER HY0230261



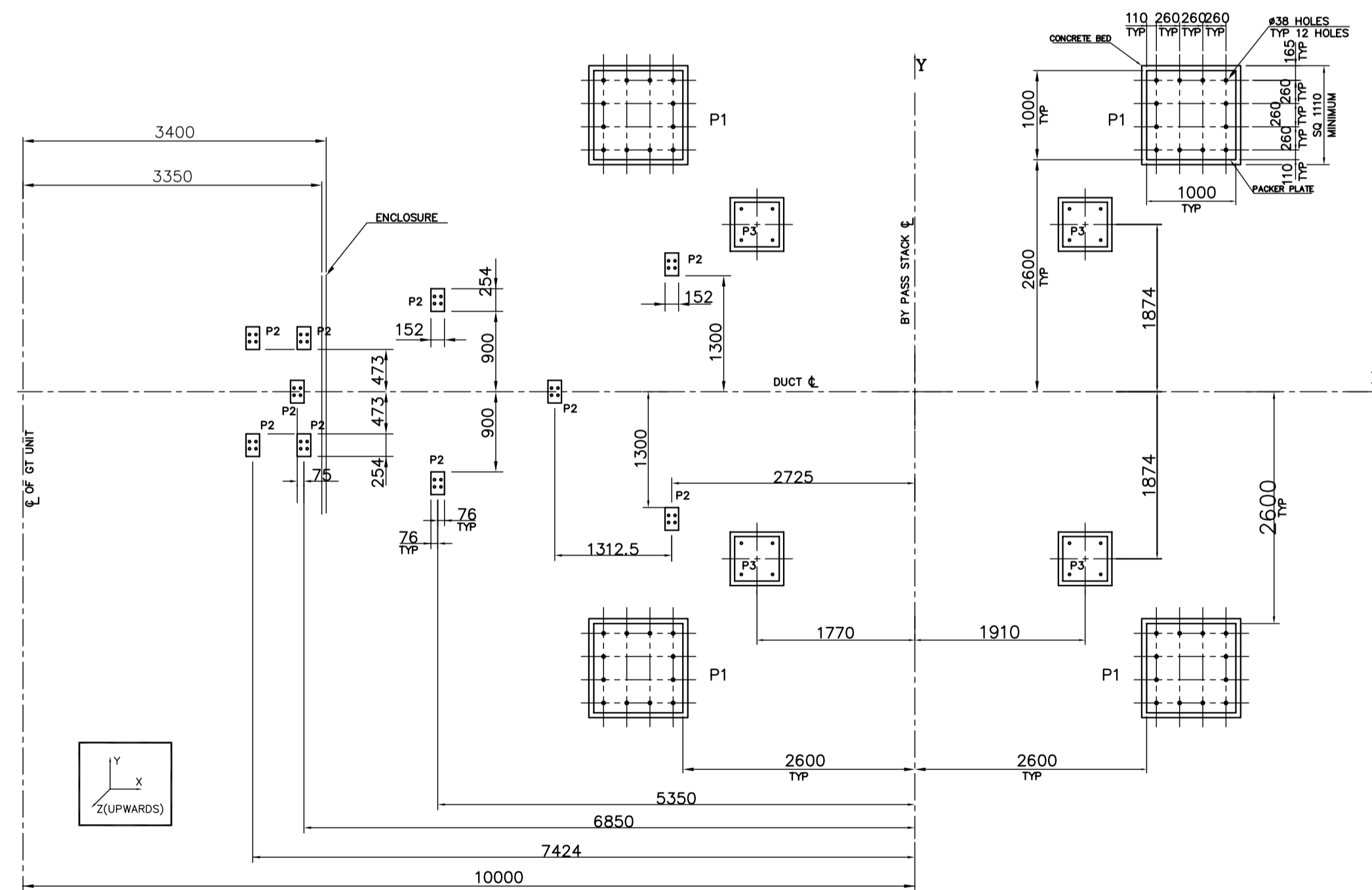
(DETAIL-X)  
(PLENUM INTERFACE FLANGE DETAIL)



DETAIL-A  
GT EXHAUST DUCT TERMINAL FLANGE DETAIL

**NOTES:(CONTD FROM SHEET1)**

13. PLATFORM & RAILING SHALL BE WITH GALVANIZED ASTM A53. GALVANIZING SHALL BE DONE AS PER GT54155.
14. PLAT FORMS & RAILINGS DESIGN & REQUIREMENTS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
15. DIVERTER DAMPER & GUILLOTINE DAMPER MAINTAINANCE ASPECT SHALL BE CONSIDERED
16. GASKETS IN DUCTING SHALL BE OF REFRASIL CLOTH AS PER GT51115.
17. ALL MATING COMPONENTS( LIKE SHELL HALFS & SHELL TO SHELL..ETC) SHALL BE TRIAL ASSEMBLED.
18. FOUNDATION DESIGN & ANALYSIS (REFER VAR TABLE), FOUNDATION EMBEDMENTS ARE IN VENDOR'S SCOPE OF SUPPLY.
19. WIND ARRESTING BRACING SHALL BE PROVIDED TO FIX THE GUILLOTINE DAMPER. THE LOCATION AND SIZE OF THE BRACING WILL BE INTIMATED DURING DETAILING STAGE.
20. ALL THE CARBON STEELS MATERIALS SHALL BE OF GRADE IS2062 GR-B
21. FOUNDATION HARDWARE IS IN VENDOR SCOPE.



FOUNDATION PLAN

TYPE OF PRODUCT OR		FR 6B GT			
NAME OF CUSTOMER/PROJECT		BHARAT HEAVY ELECTRICALS LTD. HYDERABAD			
DEPT.	GTD	UNTOL.	DIMS.	SCALE	WEIGHT (KG)
CODE	423	GR.	Ø/M/F	NA	-N.A.-
DRN.	CHKK	NAME	SIGN.	DATE	NO.OF VAR.
CHD.	V.SURESH	BHARAT HEAVY ELECTRICALS LTD.	(Signature)	28.04.12	28.04.12
APPD.	BSN	HYDERABAD	(Signature)	28.04.12	28.04.12
REV.	DATE	CHD/APPD	ZONE	REV.	DATE
01				01	
TITLE		CARD CODE		DRAWING NO.	
EXHAUST DUCT & BYPASS STACK		N.A.		1-364-09-61019	
SHT. No		NO. OF SHT.		REV.	
02		02		00	



