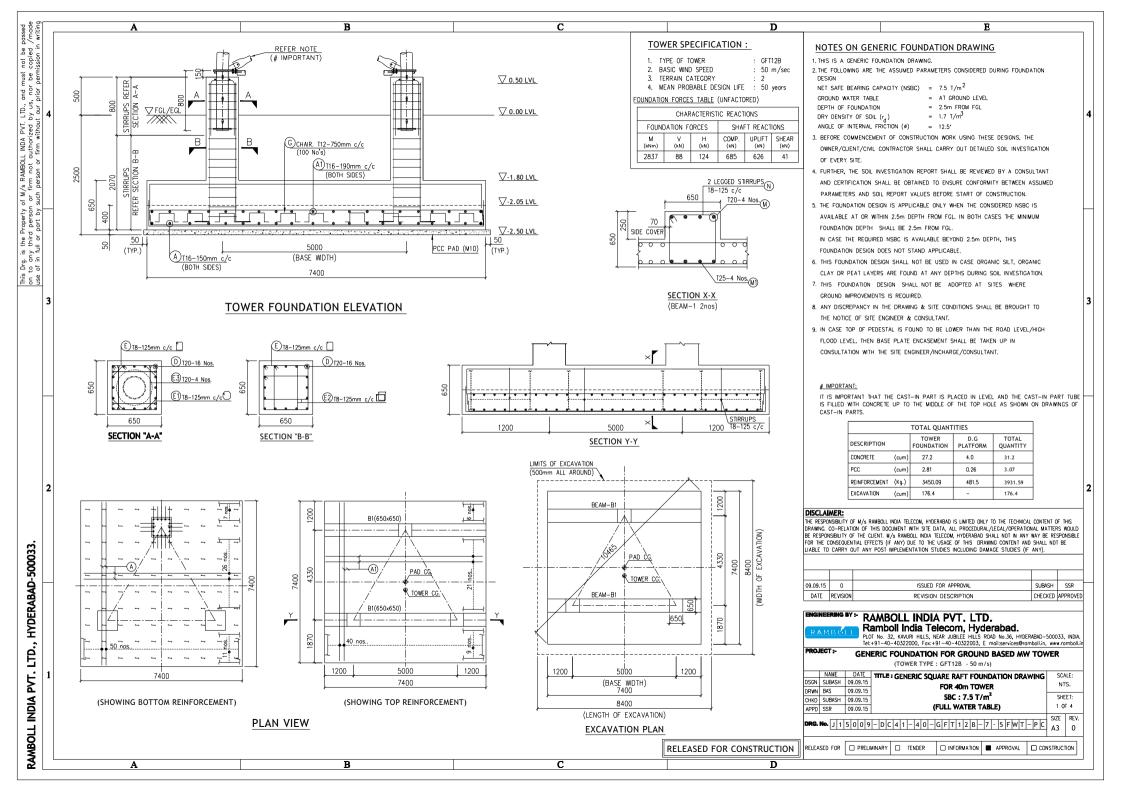
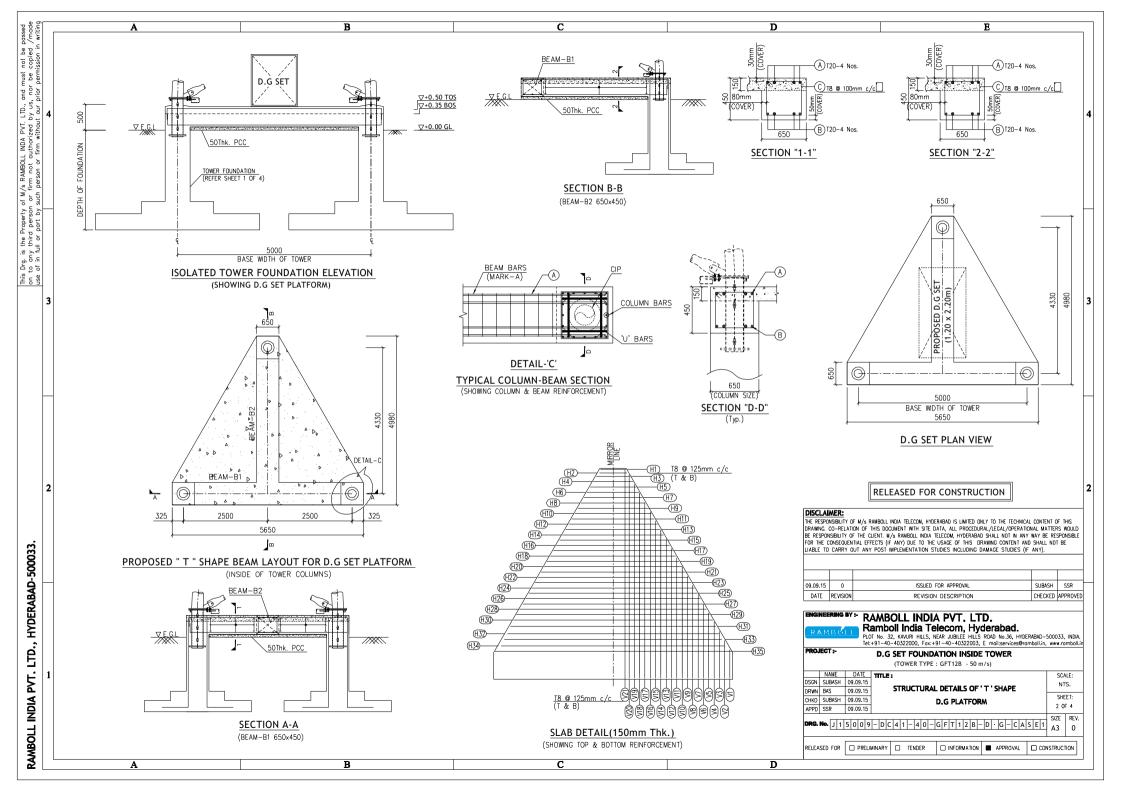
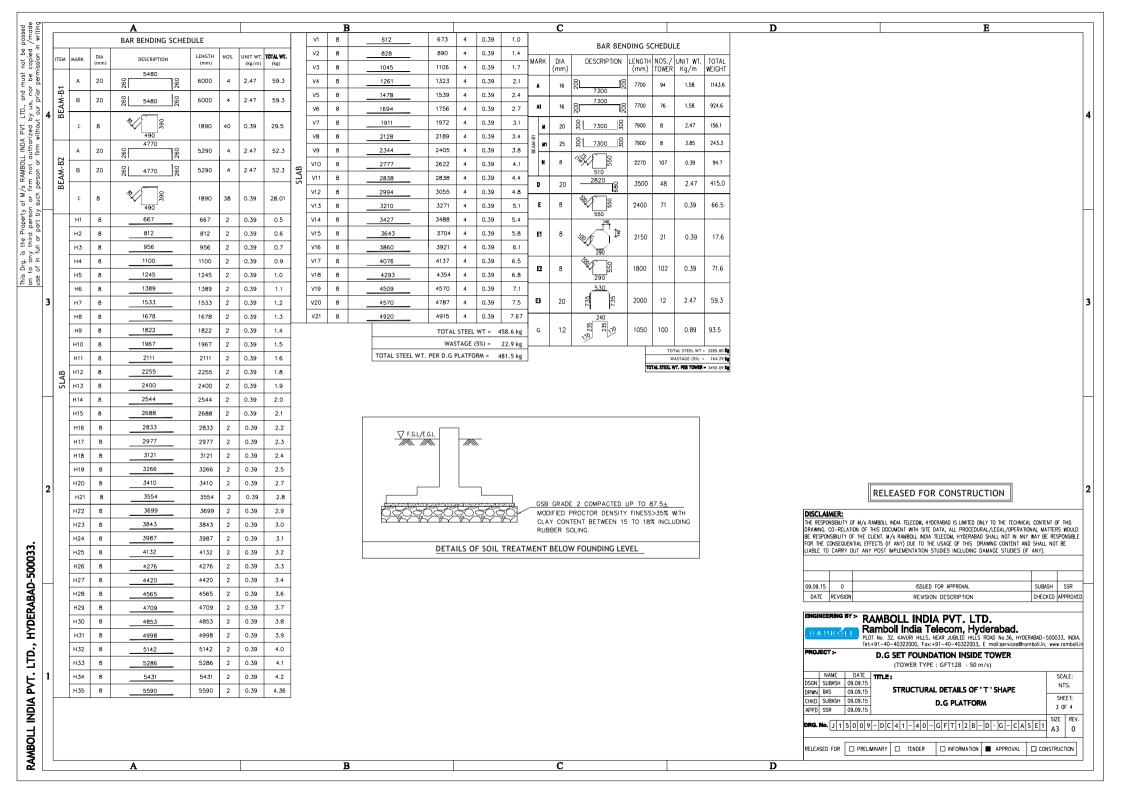


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		Vendor Docum	ent Review S	heet		
PROJECT TITLE:			4G Pro	oject		
VENDOR NAME:		RS	S Infra & Gange	s Internatio	nale	
DOCUMENT TITLE:		Generic Square Raft Foundation Drawing of GFT12B 40m Towers_50m/s-SBC-7.5T/m2 (Full Water Table)-Square Raft				
VENDOR DOCUMEN	NT NO.	J15009-DC041-40-GFT12B-7.5FWT.PC-R0				
VENDOR REVISION	NO:		0			
		VENDOR DOCUMEN	IT REVIEW FEED	BACK		
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ву: <u>Nikhil</u>	Bhag	wat	Date:	29-09-20	015	
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						Page 1 of







GENERAL NOTES

GENERAL & MATERIAL

- 1. ALL DIMENSIONS ARE IN "mm" U.O.S.
- 2. RCC & PCC SHALL BE OF GRADE M20 & M10 RESPECTIVELY.
- MINIMUM CEMENT CONTENT OF M20 CONCRETE SHALL BE 300 Kg/m³ WITH WATER CEMENT RATIO OF 0.55 (27.5 LITRES/50 Kg BAG OF CEMENT).
- FOR AGGRESSIVE SOIL/EXPOSURE CONDITIONS, MINIMUM GRADE OF CONCRETE SHALL BE REFFERED AS PER 1S456 2000, TABLE 3 AND 5.
- 5. PCC/LEAN CONCRETE SHALL BE OF GRADE M10 WITH MIX PROPORTION OF 1:3:6
- 6. STEEL GRADE IS Fe415 U.O.S. AS PER IS 1786 / IS 1159
- 7. IF ANY LEVEL DIFFERENCE IN EXISTING GROUND IS FOUND, THEN SOIL EXCAVATION FOR FOUNDATION SHALL BE STARTED WITH REFERENCE TO THE LOWER LEVEL AND THE SOIL SHALL BE BACK FILLED AND COMPACTED UPTO THE TOP MOST LEVEL OF NATURAL GROUND IFVFI TO AVOID SOIL FROSION.
- VERIFY THE ADJACENT SITE FEATURES BEFORE EXCAVATION, PROPER CARE SHALL BE TAKEN TO AVOID DAMAGE TO ADJACENT STRUCTURE.
- ANY DISCREPANCY IN THE DRAWING VS SITE CONDITIONS SHALL BE BROUGHT TO THE NOTICE OF SITE ENGINEER & CONSULTANT (Romboli India Pvt. Ltd.)
- 10.FOLLOWING CEMENT AND STEEL BRANDS TO BE USED FOR CONSTRUCTION. IF ANY DEVIATION IN THE BELOW MATERIAL PRIOR APPROVAL TO BE TAKEN FROM CLIENT.
- CEMENT BRANDS: L & T, BIRLA KESORAM, CCCI,RASI,KCP,PRIYA GOLD,ZUVARI,PENNA POWER,
 CORAMANDEL. (53 GRADE OPC)
- STEEL BRANDS : TATA TISCON, SAIL, KAMADHENU, VIZAG TMT, THERMAX, SARVOTHAM, SUJANA, JAYARAJ, KDM, SIMHADRI

TECHNICAL SPECS

- 11. MINIMUM COVER TO THE MAIN REINFORCEMENT
- FOR COLUMNS 50mm FOR BEAMS 30mm
- FOR PAD 50mm
- FOR STRIP 50mm
- 12. THE LAP LENGTH/DEVELOPMENT LENGTH OF BARS SHOULD BE 50Ø AND STAGGERED. HOWEVER, IT IS PREFERABLE TO WELD BARS IN CHIMMEY/COLUMN. WELD SHALL BE CONTINUOUS FOR A MINIMUM LENGTH OF 450mm PER EACH BAR WITH 10mm THICK WELD ON BOTH SIDES.
- 13. NO CONSTRUCTION JOINT SHALL BE ALLOWED OTHER THAN SPECIFIED.
- 14. CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE TO VARIOUS PROVISIONS LAID DOWN IN IS: 456/IS: 800 STANDARDS.
- 15. STRIPPING OF FORMWORK SHALL BE CARRIED OUT AFTER A MINIMUM PERIOD OF 24 HRS AFTER CONCRETING.

EXCAVATION & BACKFILLING

- 16. THE SIDE SLOPES FOR EXCAVATION SHALL BE DIVIDED AS PER THE FOLLOWING CUIDELINES.
- a) FOR SANDY SOILS, SLOPE IV: 2H

FOR PROPER COMPACTION

- b) FOR CLAYEY SOILS, SLOPE IV:1H
- c) FOR HARD STRATA, VERTICAL CUT
- ALTERNATIVELY, SUFFICIENT SHEET PILES/SHORING SHALL BE USED DURING EXCAVATION TO PREVENT SIDE COLLAPSE.
- 17. SAND BEDDING/STONE BEDDING SHALL BE PROVIDED IN FOUNDATIONS OF MARSHLY AND WET BLACK COTTON SOIL.
- 18. IN CASE OF NO GROUND WATER, ALL FOUNDATION PITS SHALL BE SOAKED WITH WATER FOR 24 HOURS AND COMPACTED WELL BEFORE PLACING P.C.C.
- 19. LOOSE POCKETS OF SOIL, (IF ANY FOUND) IN FOUNDATION PITS SHALL BE COMPLETELY REMOVED FOR LOOSE MATERIAL AND FILLED WITH P.C.C & COMPACTED WELL BEFORE FOLINDATIONS IS LAID.
- 20. FOUNDATION PIT SHALL BE KEPT DRY (FREE FROM WATER) DURING LAYING OF PCC & RCC AND FURTHER TO A PERIOD OF 48 HOURS (MIN.) FROM THE CONCRETE LAYING TIME.
- 21. ALL BACK FILLING OF FOUNDATION SHOULD BE DONE WITH WELL COMPACTED MURRUM SOIL.

 22. THE BACK FILLING MATERIALS SHOULD BE CLEAN AND FREE FROM ORGANIC OR OTHER
- FOREIGN MATERIALS.

 23. SOIL BACK FILL SHALL BE DONE IN LAYERS OF APPROX. 150-200mm, EACH LAYERS
 SHALL BE DENSELY COMPACTED BY SPRINKLING MINIMUM QUANTITY OF WATER AS NECESSARY
- 24. CARE SHALL BE TAKEN THAT THE BACK FILLING IS STARTED FROM THE CENTRE TOWARDS THE OUTER ENDS
- 25. AFTER BACK FILLING 50mm HIGH EARTHEN EMBANRSCENT(BUND) TO BE MADE ALONG THE SIDES OF EXCAVATED PITS AND SUFFICIENT WATER WILL BE POURED OVER THE BACK FILLED EARTH FOR ATLEAST 24HRS.

CURING

В

- 27. CURING OF FOUNDATIONS SHALL BE CARRIED OUT OVER A MINIMUM PERIOD OF 7 DAYS. IN THE FOLLOWING MANNER.
 - a) BASE RAFT, BEAM SHALL BE KEPT CONTINOUSLY IN DAMP OR WET CONDITION BY PONDING OR BY COVERING WITH SACKING FOR A MINIMUM PERIOD OF 2 DAYS AFTER FINAL SETTING TIME OF CONCRETE (\$12 HRS)
 - b) BACK FILLING SHALL START AFTER 72 HRS OF CONCRETING.
 - c) AFTER COMPLETION OF BACK FILLING THE SOIL SHALL BE KEPT MOIST/DAMP/WET CONDITION UPTO 7 DAYS FROM CONCRETING.
- 28. TOWER ERECTION SHALL START AFTER 7 DAYS OF CONCRETING AND OR MIN. 3 DAYS AFTER ANCHOR BOLT SETTING.
- 29. IN CASE TOP OF PEDESTAL IS FOUND TO BE LOWER THAN THE ROAD LEVEL/HIGH FLOOD LEVEL, THEN BASE PLATE ENCASEMENT SHALL BE TAKEN UP IN CONSULTATION WITH THE SITE FINGINFER/INCHARGE/CONSULTANT

TEMPLATE ASSEMBLY/ GROUTING

- 30. VERIFY BOLT, NUT SIZE AND LENGTH AS PER TEMPLATE/BASE ASSEMBLY DRAWING.
- CHECK THE INTEGRITY OF BOLT AND NUT BEFORE EXECUTION AT SITE. IF ANY PLAY FOUND, CONSULT SITE ENGINEER/CONSULTANT.
- 32. GROUTING UNDER BASE PLATE HAS TO BE DONE WITH M20 GRADE CONCRETE. (1: 1½: 2½) USING BABY CHIPS (5 TO 10mm).
- 33. SURFACE OF THE GROUT SHALL BE SMOOTHLY FINISH WITH CM(1:5).
- 34. AS MUCH AS POSSIBLE THICKNESS OF THE GROUT SHOULD BE LESS

LEGEND

- U.O.S. UNLESS OTHERWISE SPECIFIED.
- INDICATES CHAIR LOCATIONS
- F.G.L FINISHED GROUND LEVEL
- E.G.L EXISTING GROUND LEVEL
- T & B TOP AND BOTTOM
- TOS TOP OF SLAB
- BOS BOTTOM OF SLAB

TOWER SPECIFICATION:

TYPE OF TOWER : CFT12B
 BASIC WIND SPEED : 50 m/sec
 TERRAIN CATEGORY : 50 wors

D

5. ANTENNA LOADING TABLE

S.No.	ANTENNA TYPE (Name)	SIZE OF ANTENNA (w x b x h (or) diameter), mm	No.s	HEIGHT (m)
1.	Remote Radio Head	290 x 127 x 440	9	40
2.	eNodeB Antenna	500 x 150 x 1900	9	40
3.	Microwave antenna	2.4m	1	38.75
4.	Microwave antenna	1.8m	2	38.75
5.	Microwave antenna	1.2m	5	38.75
6.	Microwave ODU	200 x 200 x 85	4	40
7.	Grounding Bar	100 x 8 x 200	1	40
8.	WIFI Antenno	312 x 229 x 163	3	15
9.	LED Light	310 x 510 x 64	4	15
10.	Surveillance camera	243 dia & 287 depth	3	10

6. FOUNDATION FORCES TABLE (UNFACTORED)

D

CHARACTERISTIC REACTIONS						
FOUND	ATION F	DRCES	SHAFT REACTIONS			
M (kNm)	V (kN)	H (kN)	COMP. (kN)	UPLIFT (kN)	SHEAR (kN)	
2837	88	124	685	626	41	

RELEASED FOR CONSTRUCTION

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09.09.15	0	ISSUED FOR APPROVAL	SUBASH	SSR
DATE	REVISION	REVISION DESCRIPTION	CHECKED	APPROVED

NGINEERING BY:- RAMBOLL INDIA PVT. LTD. Ramboll India Telecom, Hyderabad.

PLOT No. 32, KAVIRI HILS, NEAR JUBILEZ HILLS ROW No.36, HYDERBNO-500033, INDA.

PROJECT - GENERIC FOUNDATION FOR GROUND BASED MW TOWN

GENERIC FOUNDATION FOR GROUND BASED MW TOWER

(TOWER TYPE : GFT12B - 50 m/s)

,							
	NAME	DATE	TITLE: GENERIC SQUARE RAFT FOUNDATION DRAWING	SCA	ALE:		
DSGN	SUBASH	09.09.15	- 1		·S.		
DRWN	BAS	09.09.15	FOR 40m TOWER				
CHKD	SUBASH	09.09.15	SBC : 7.5 T/m ² (FULL WATER TABLE)		SHEET:		
APPD	SSR	09.09.15			4 OF 4		
APPU	SOR	09.09.13	(, , , , , , , , , , , , , , , , , , ,				
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RELEASED FOR PRELIMINARY TENDER INFORMATION APPROVAL CONSTRUCTION

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