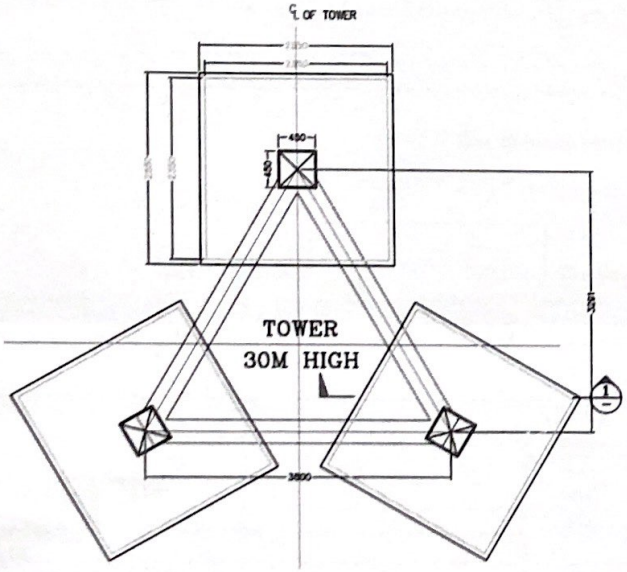
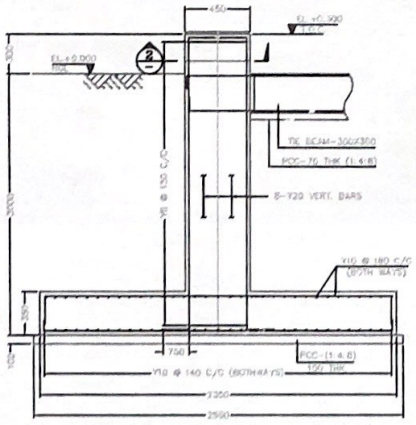
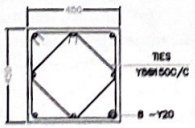


FOUNDATION KEY PLAN

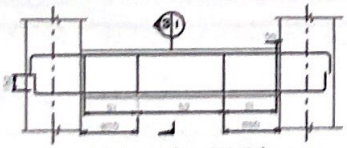


SECTION 1

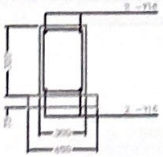


SECTION 2

COLUMN 450X450

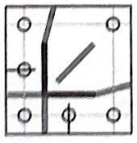


TIE BEAM (TYP DETAILS)

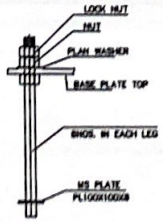


SECTION 3

STIRRUP DETAILS
S1:-2 LEGGED Y8 @ 100 C/C
S2:-2 LEGGED Y8 @ 200 C/C



BASE PLATE



ANCHOR BOLT

NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. USE M20 GRADE CONCRETE AND Fe 415 GRADE FOR STEEL.
3. CLEAR COVER TO MAIN REINFORCEMENT:-
   (a) 50MM FOR FOUNDATION (b) 25MM FOR BEAMS
   (c) 40MM FOR COLUMNS (d) 50MM AT ENDS
4. PRIOR TO AND DURING CONCRETING ALL BOLTS SHALL BE SECURELY HELD IN POSITION BY USE OF TEMPLATE.
5. BEFORE COMMENCEMENT OF CONSTRUCTION USING THIS DESIGN, CLIENT/CONTRACTOR SHALL CARRY OUT DETAILED SOIL INVESTIGATION OF EVERY SITE.
6. THIS FOUNDATION DESIGN SHALL NOT BE USED IN CASE MUSHY SOIL ARE FOUND AT ANY DEPTH DURING SOIL INVESTIGATION.
7. CONCRETE SHALL BE MECHANICALLY MIXED & VIBRATED.
8. SPLICING OF BARS SHALL NOT BE MORE THAN 50% AT ANY LOCATION.
9. PROPER CURING OF CONCRETE SHALL BE DONE.
10. BENDING OF BARS SHALL BE AS PER IS 2502.
11. ANY DISCREPANCY SHOULD BE BROUGHT TO THE CONSULTANT'S ATTENTION.

GENERAL DETAILS

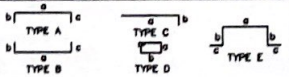
S.No	DESCRIPTION	DETAILS
1	SOIL BEARING CAPACITY	10.00 T/SQM
2	DRY DENSITY OF SOIL	1.75 T/SQM
3	ANGLE OF REPOSE	25.00 DEGREE

BILL OF MATERIALS

ITEM	UNIT	TOTAL
EXCAVATION	CUM	61.1
PCC-(1:4:8)	CUM	2.3
RCC-M20	CUM	8.3
STEEL-Fe415	KG	800

CHAIRS SHALL BE PROVIDED WHEREEVER REQUIRED

BAR BENDING SCHEDULE



REVISION NOTES

REV. NO.	DESCRIPTION		DATE	SIGN.
DRAWN	CHECKED	APPROVED	DATE	SCALE
S.K.Chauhan	MOHIT GUPTA	MOHIT GUPTA	11-01-2021	NTS

CLIENT: BHUTAN TELECOM LTD. BHUTAN

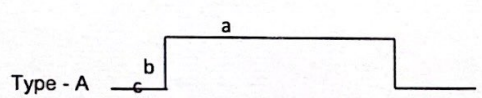
DESIGN BY: ICON POWER SOLUTIONS PVT. LTD. GURGAON

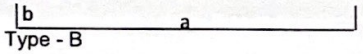
PROJECT: GENERIC ISOLATED TOWERS (GI) DESIGN BHUTAN

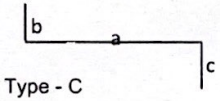
TITLE : FOUNDATION DETAILS FOR 30M HIGH TRIANGULAR TOWER SBC : 10 T/SQM

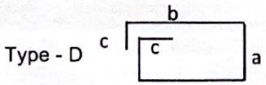
DRAWING No.	SH. NO.	REV.
AGD-319		

Bar Bending Schedule of 30m high 3legged tower









Cover -	
Slab	50 mm
Column	40 mm
Beam	25 mm

Item	Position	Type	Dia. Of Rebar (mm)	Size a (mm)	Size b (mm)	Size c (mm)	Length (mm)	Qty in Nos both ways or total	Unit wt (kg/m)	Total Weight of (kg)
Raft Slab	Top	B	B10	2250	150	-	2550	84	0.62	132
	Bottom	B	B10	2250	150	-	2550	108	0.62	170
Tie Beams	Top	B	B16	4150	300	-	4750	6	1.58	45
	Bottom	B	B16	4150	300	-	4750	6	1.58	45
	Strips	D	B8	250	250	80	1160	75	0.40	34
Column	Main	C	B20	3200	330	750	4280	24	2.47	254
	Ties	D	B8	342	342	80	1528	69	0.40	42
		D	B8	242	242	80	1128	69	0.40	31
							Total (5% extra considered)			800

* Chairs Shall be Provided whenever required

Notes :

1. Dimensions of Bars are along the Center Lines.
3. Splicing of Bars should not be more than 50%. Length of splice as per Standards.