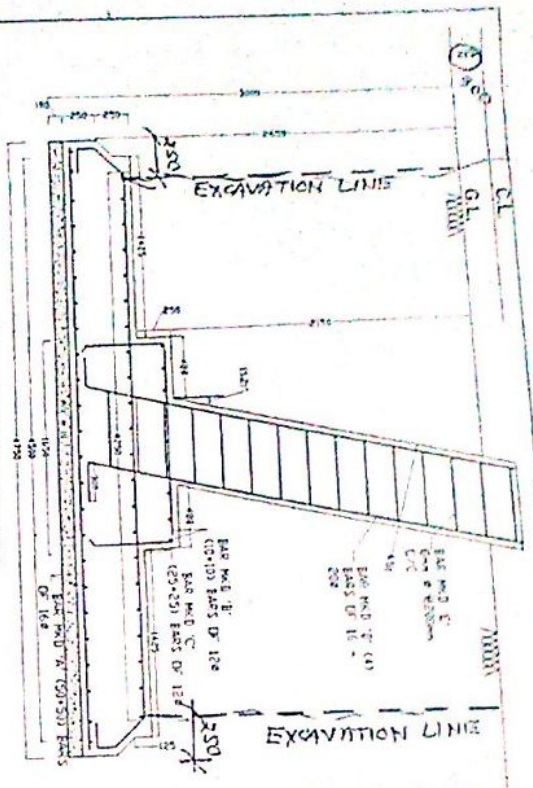
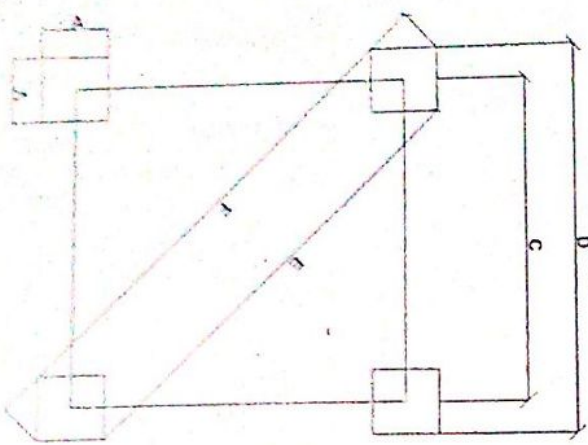
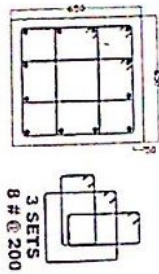




DFR FOUNDATION



EXCAVATION DIMENSION TABLE

	SD+30 M
A	4750
C	29901
D	34651
E	42286
F	49003

BAR BENDING DETAIL (F.T. OR L)

NO.	QTY	UNIT	NO. OF BARS	LENGTH (m)	TOTAL LENGTH (m)	WEIGHT (kg)	TOTAL WEIGHT (kg)
1	16	FOUR TOP	100	4850.0	485	1.53	735
2	12	FOUR TOP	20	2730.0	55	0.89	43
3	12	FOUR TOP	50	5000.0	250	0.89	223
4	20	CLM	16	3450.0	55	2.50	138
5	8	CLM	15	5600.0	84	0.40	34
TOTAL						1177	

QUANTITY PER TOWER FOR (D, F, R)

CONCRETE	M20 (m³)	M10 (m³)	S2	10
EXCAVATION (m³)			270.75	
STEEL			1177 X 4 =	4708 kg

NOTES:-

1. All dimensions are in mm & levels in meter.
2. Any discrepancy in the drawing shall be brought to the notice of structure designer.
3. Concrete mix shall be M-20 for PCC shall be M-10.
4. All steel reinforcement shall be of high yield strength deformed bars conforming to IS 1786-1985 with min yield stress / 0.2% proof stress of 415/500 N/ sq. mm.
5. Lap length/development length (l_d) for main reinforcement bars as per IS-456-2000 shall be 50x dia of bar for M20.

CLEAR COVER:-

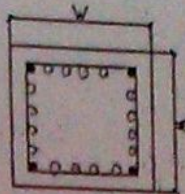
CLM	50mm
FOUR TOP	50mm
FOUR TOP	60mm
CLM	50mm

UNIQUE STRUCTURES & TOWERS LIMITED

NO. OF BARS	100
LENGTH (m)	4850.0
WEIGHT (kg)	735
NO. OF BARS	20
LENGTH (m)	2730.0
WEIGHT (kg)	43
NO. OF BARS	50
LENGTH (m)	5000.0
WEIGHT (kg)	223
NO. OF BARS	16
LENGTH (m)	3450.0
WEIGHT (kg)	138
NO. OF BARS	15
LENGTH (m)	5600.0
WEIGHT (kg)	34
TOTAL	1177

SENIOR CIVIL AE
SUNNY LUNSON GRC
PRAVIN L. JAIPU
d/c

For More Structures &



VIEW AT A=6

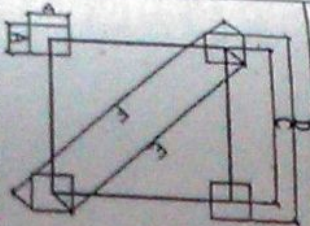
FDN DIMENTION TABLE	
H	
B	3000
W	41200
M	520
P	300
D	100
D1	300
D2	300
D3	400
H1	—
B1	3200
B2	4000
B3	—
HT	—
ST	—
SB	—
TS TOP	2.0
TS BOT	—

19410

QUANTITY/TOWER	CONC.VOL M ³	EXCAV.VOL M ³	STEEL KG
----------------	-------------------------	--------------------------	----------

CONC.VOL M ³	
EXCAV.VOL M ³	
STEEL KG	

	TON	+300	+600	+900
A	3400	3400	3400	3400
C	13571	15206	16836	18468
D	16731	18604	20235	21868
E	19192	21501	23810	26118
F	24001	26309	28618	30928

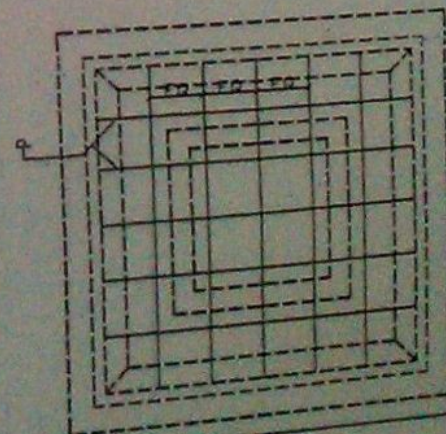
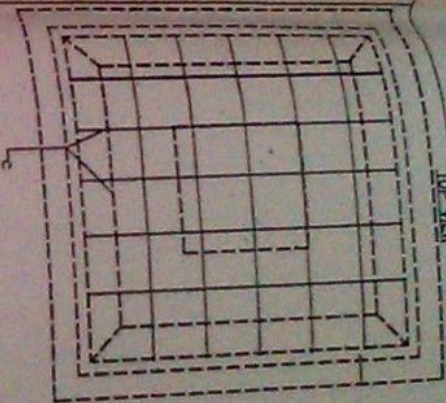


DEVIATION DETAIL AT WORKING POINT

EXCAVATION IMPLEMENT TABLE

BAR BENDING DETAIL						
MARK	SHAPE & SIZE	DIA	UNIT WT KG/M	LENGTH	QTY / LEG	TOTAL WT/ LEG
a	 250 210 12.5	20E	2.46	3385	16	13.23
b	 64 12.5	64	0.22	1760	13	5.09
c	3300	12E	0.88	3300	19 X 2	110.35
d	3900	12E	0.88	3900	27 X 2	185.33
TOTAL WEIGHT =						434

TOTAL WEIGHT = 434



TOP VIEW

— 174 —

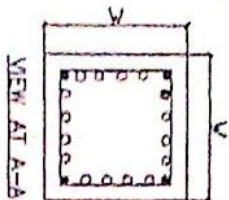
Generally Approved
OK by
S. E. MEN. (STR) / SN
400 MY. PUGHED / DICE
PREVENT. 202/25

KALPATARU POWER TRANSMISSION LIMITED, Gandhinagar

[illegible]

1. ALL DIMENSIONS ARE IN MM. 5/10
2. STEEL USED IS OF GRADE F460 EXCEPT FOR STRIPBARS
3. GRADE OF CONCRETE SHALL BE M20.
4. NO FOUNDATION SHALL REST ON FILLED UP SOIL.
5. MINIMUM COVER TO REINFORCEMENT SHALL BE 50 MM ON ALL SIDES.
6. L/W/H SPACE LENGTH SHALL BE AS PER IS 456-2000.
7. IF MORE THAN BOX INDS SHALL BE LAPPED AT ONE SECTION BOLLERS
SPICED / SPICED



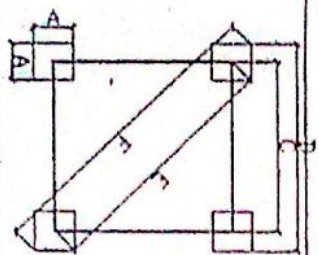


VIEW AT A-A

H	3000
B	2300
W	500
M	300
P	100
D	200
D1	400
D2	-
D3	-
H1	2300
B1	2600
B2	-
B3	-
HT	-
OT	-
OT	20
TS TOP	-
TS BOT	1440

QUANTITY/TOWER	
CONC.VOL M ³	11.53
	1.36
EXCAV.VOL M ³	3.19
	60.03
STEEL KG	17.35

	40m	43m	46m	49m
A	3200	3200	3200	3200
C	13221	14344	16263	17306
D	154121	16914	18907	19960
E	18697	20809	22920	25032
F	21804	23920	26032	28143



EXCAVATION DETAIL AT WORKING POINT

EXCAVATION DIMENSION TABLE

ORTHOG. VIEW

TOP VIEW

c

PILE BENDING DETAIL						
WAGON	S-AVE & SIZE	DIA	UNIT WT KG / M	LENGTH	QTY / LEG	TOTAL WT / LEG
0	502 3055	20E	2.46	3335	20	164.08
2	 4183	64	0.22	1700	13	4.86
2	2100	12E	0.88	2100	12 X 2	36.96
2	2500	12E	0.88	2500	12 X 2	51.84

TOTAL WEIGHT = 255.70

Generally Accepted

~~S.E. PENN. (STR.) AEN~~

KALPATARU POWER TRANSMISSION LIMITED, Gandhinagar

PRASARAN NIGAM LIMITED

SFC. NO. RFTN/DN/TN-17B/17

S.D. 2003

TYPE 157011, 1216

100

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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0.26	11/25/
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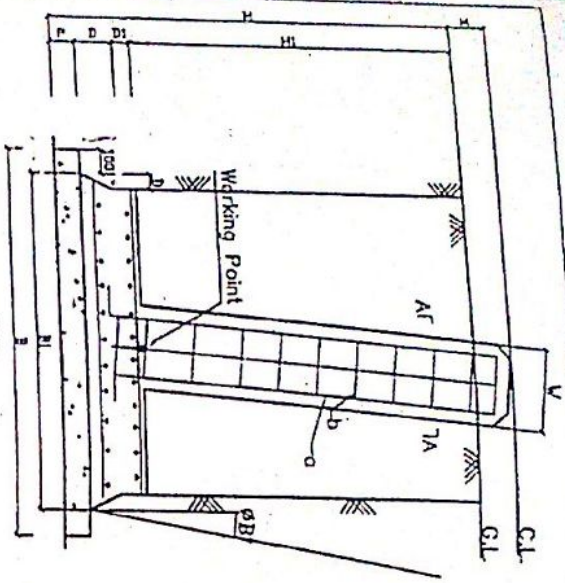
SPC. NO. R/RN/DH/N/-178/179	NO. 173/O 543 DT. 11/04/00
P.O. NO/RPN/SE(400KV DESIGN)/R/N/SIV1/N/-178/P.C	NO. 174/O 544 DT. 11/04/00
NO/RPN/SE(400KV DESIGN)/D/N/STG/N/-179/P.C	
400 KV S/C TRANSMISSION LINE	
LINE 1 : JALPUR - MERTHA	
LINE 2 : MERTHA - JODHPUR	
IN Dwg- 22	
SHEET NO. 2 OF 2	REL. :

SHEET NO. 202

22

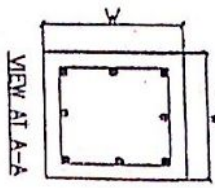
NOTES:-

- 1 ALL DIMENSIONS ARE IN MM. S/D
- 2 STEEL USED IS OF GRADE F_y 415 EXCEPT FOR STIRRUPS
- 3 GRADE OF CONCRETE SHALL BE M20.
- 4 NO FOUNDATION SHALL REST ON FILLED UP SOIL.
- 5 WINDUW COVER TO REINFORCEMENT SHALL BE 50 MM ON ALL SIDES.
- 6 LIFT/HATCH/SPACE LENGTH SHALL BE AS PER IS: 456-2000.
- 7 NOT MORE THAN SIX BARS SHALL BE LIFTED AT ONE SECTION UNLESS SPECIFIED / SHOWN.
- 8 ALL HOOPS, BENTL LAPS & SPICES SHALL BE AS PER IS:456-2000 & IS:1786-2000



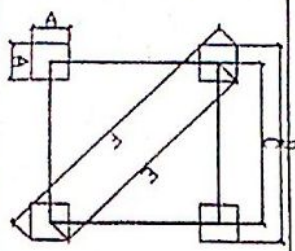
FOR DIMENSION TABLE

H	28.00
B	2.300
W	4.50
M	2.00
P	100
D	2.00
D1	4.00
D2	4.00
D3	4.00
H1	2.100
B1	2.100
B2	2.100
B3	2.100
HT	2.100
AT	2.100
GA	2.100
CL	2.100
RS BOT KG/M ³	1440
RS TOP KG/M ³	20



QUANTITY/TOWER

CONC.VOL M ³	11.53
EXCAV.VOL M ³	2.17
STEEL KG	33.92
STEEL KG	47.6



A	1700	1700	1700	1700	1700
B	1700	1700	1700	1700	1700
C	1700	1700	1700	1700	1700
D	1700	1700	1700	1700	1700
E	1700	1700	1700	1700	1700
F	1700	1700	1700	1700	1700

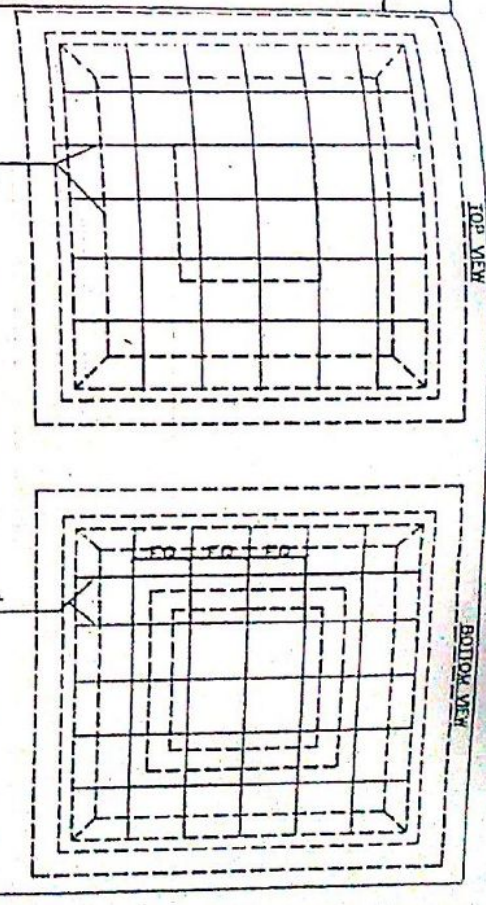
EXCAVATION DETAIL AT WORKING POINT

EXCAVATION DIMENTION TABLE

KALPATARU POWER TRANSMISSION LIMITED, Gandhinagar

- NOTES:-
- 1 ALL DIMENSIONS ARE IN MM. S/O
 - 2 STEEL USED IS OF GRADE F₀ 475 EXCEPT FOR STIRRUPS
 - 3 GRADE OF CONCRETE SHALL BE M20.
 - 4 NO FOUNDATION SHALL REST ON FILLED UP SOIL.
 - 5 MINIMUM COVER TO REINFORCEMENT SHALL BE 50 MM ON ALL SIDES.
 - 6 U₀/ANCHORAGE LENGTH SHALL BE AS PER IS: 456-2000.
 - 7 NOT MORE THAN 50% BARS SHALL BE LIFTED AT ONE SECTION UNLESS SPECIFIED / SHOWN.
 - 8 ALL HOOKS, BENDS, LAPS & SPACES SHALL BE AS PER IS: 456-2000 & IS: 2502, EXCEPT STATED OTHERWISE

DCIL. BR.	BRUNN BRUN
APP. DR.	S.B. JOSEPH
TOWER TYPE	400 KV S/C TRANSMISSION LINE
SOIL TYPE	D.F.T.3
JOB NO. 26	DETAILED DESIGN/DRG-12
SHEET NO. 1 OF 2	REV. : R0



BAR BENDING DETAIL

MARK	SHAPE & SIZE	DIA	UNIT WT KG/M	LENGTH	NO. OF LEG	TOTAL WT/ LEG
a	200	20	2.46	3.185	8	6.2.65
b	60	6	0.22	1500	13	4.29
c	1600	12	0.88	1600	9 X 2	25.34
d	2000	12	0.88	2000	9 X 2	31.68

TOTAL WEIGHT = 123.99

Generally Approved
S.E./EN. (STR) AEN
400 KV PUNE-CHENAI
R.V.P.N.L., 20/08/02

