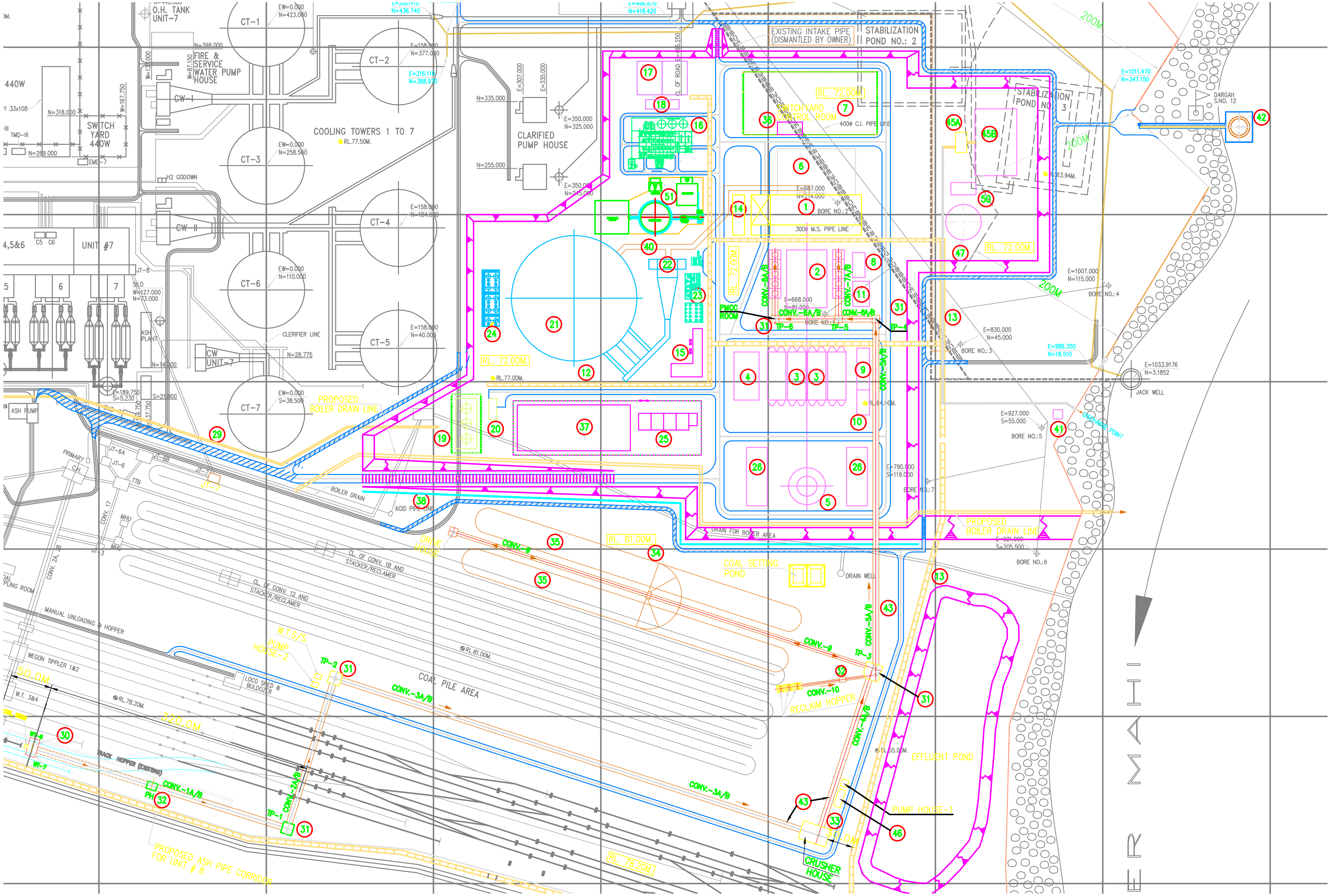
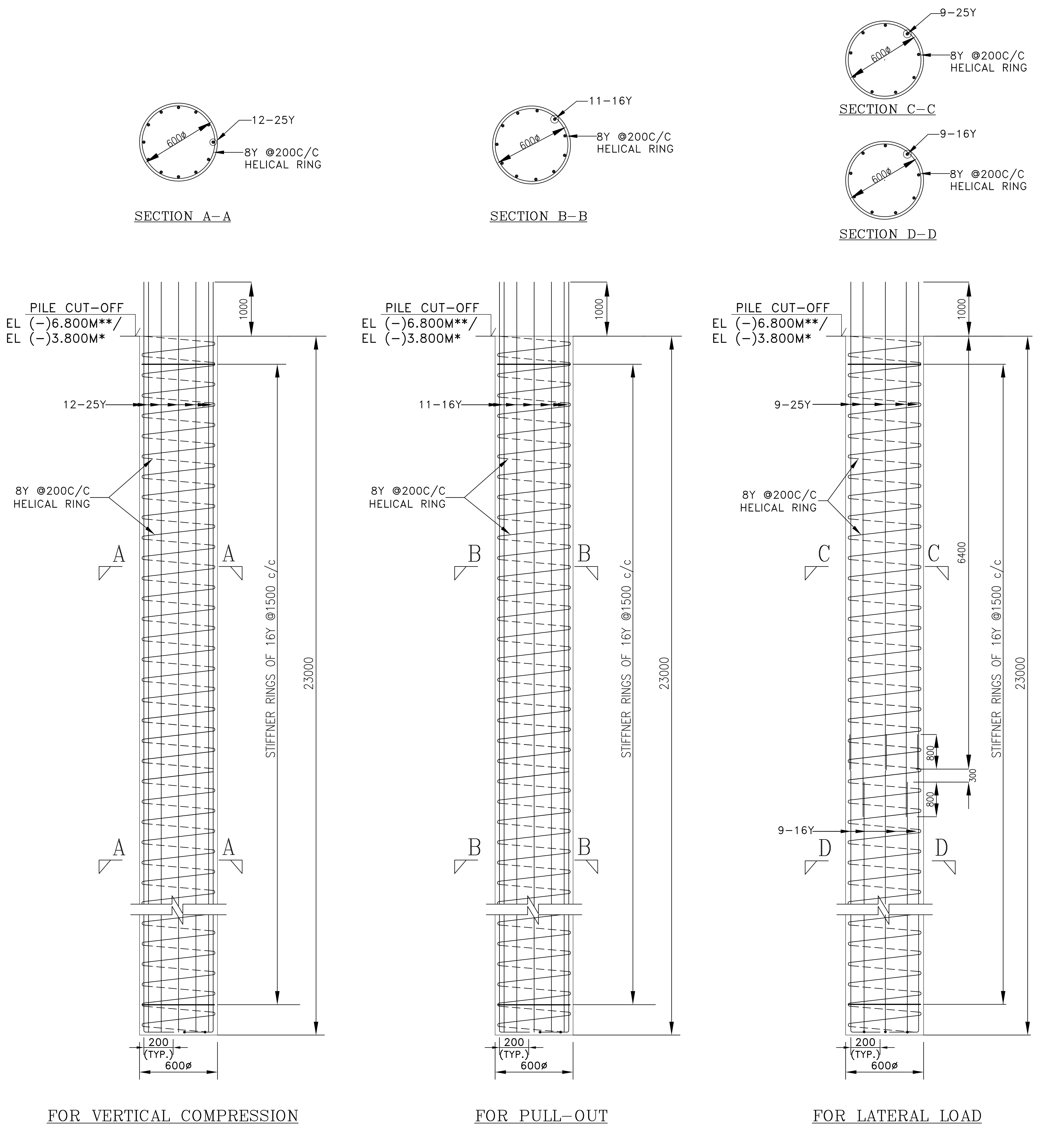


O.H. TANK UNIT-7
CT-1
CT-2
CT-3
CT-4
CT-5
CT-6
CT-7
FIRE & SERVICE WATER PUMP HOUSE
COOLING TOWERS 1 TO 7
RL.77.50M.
CW-I
CW-II
CW UNIT-7
SWITCH YARD 440W
440W
UNIT #7
4,5&6
H2 GODOWN
ASH PLANT
ASH PUMP
CLARIFIED PUMP HOUSE
CLERIFIER LINE
N=335.000
N=255.000
E=350.000
N=325.000
EXISTING INTAKE PIPE (DISMANTLED BY OWNER)
STABILIZATION POND NO.: 2
STABILIZATION POND NO. 3
RL. 72.00M
SWITCH YARD CONTROL ROOM
400ø C.I. PIPE LINE
300ø M.S. PIPE LINE
BORE NO.:2
BORE NO.:3
BORE NO.:4
BORE NO.:5
BORE NO.:6
BORE NO.:7
RL. 72.00M
RL.77.00M.
RL.64.00M.
PMCC ROOM
CONV.-8A/B
CONV.-7A/B
CONV.-6A/B
CONV.-5A/B
CONV.-4A/B
CONV.-3A/B
CONV.-2A/B
CONV.-1A/B
CONV.-9
CONV.-10
TP-6
TP-5
TP-4
TP-3
TP-2
TP-1
PROPOSED BOILER DRAIN LINE
BOILER DRAIN
ACID PIPE LINE
DRAIN FOR BOILER AREA
RL. 81.00M
COAL SETTLING POND
DRAIN WELL
CL. OF CONV. 1B AND STACKER/RECLAMER
CL. OF CONV. 1Z AND STACKER/RECLAMER
COAL PILE AREA
RL.81.00M.
MANUAL UNLOADING & HOPPER
WEGON TIPPLER 1&2
W.T. 3&4
LOCO SHED & BULDOZER
W.T.S/S PUMP HOUSE-2
RL.78.20M.
TRACK HOPPER (EXISTING)
RECLAIM HOPPER
EFFLUENT POND
PUMP HOUSE-1
CRUSHER HOUSE
RL. 78.20M
PROPOSED ASH PIPE CORRIDOR FOR UNIT # 8
DARGAH S.NO. 12
JACK WELL
200M
E=1033.9176
N=3.1852
RIVER MAHI

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN MM



* FOR BOP AREA, ** FOR MAIN PLANT AREA

REINFORCEMENT DETAILS OF 600MM DIAMETR INITIAL LOAD TEST PILES

LOCATION OF TEST PILE (REF.NOTE-13)

TEST AREA	TEST NO.	COORDINATES		DIA OF PILE (MM)	REMARKS
*BOP AREA CUT-OFF LVL EL(-)3.800M	TPH1	499 E	329 N	600	TPH-TEST PILE FOR LATERAL LOAD TPV-TEST PILE FOR VERTICAL COMPRESSION TPP-TEST PILE FOR PULL-OUT
	TPV1	504 E	329 N		
	TPP1	509 E	329 N		
**MAIN PLANT AREA CUT-OFF LVL EL(-)6.800M	TPH2	587 E	69 N	600	
	TPV2	587 E	74 N		
	TPP2	587 E	79 N		
	TPH3	636 E	95 S	600	
	TPV3	641 E	95 S		
	TPP3	646 E	95 S		

SAFE LOAD CARRYING CAPACITY OF PILE

DIAMETER OF PILE (MM)	SAFE LOAD (MT)		
	VERTICAL COMPRESSION	PULL OUT	HORIZONTAL
600	150	35	7.0

NOTES:

1. ALL DIMENSIONS ARE IN MM AND ELEVATION/LEVEL ARE IN METER UNLESS NOTED OTHERWISE.
2. EL.(±) 0.00M CORRESPONDS TO R.L. (+) 72.30M.
3. BORED CAST-IN-SITU CONCRETE PILE CONFORMING TO IS:2911 (PART-1/SEC.-2) SHALL BE USED.
4. GRADE OF CONCRETE SHALL BE M25 CONFORMING TO IS:456 WITH MINIMUM CEMENT CONTENT OF 400 KG/M^3. ORDINARY PORTLAND CEMENT SHALL BE USED.
5. REINFORCEMENT STEEL SHALL BE HIGH STRENGTH DEFORMED TMT STEEL BARS OF GRADE Fe 500D CONFORMING TO IS:1786.
6. LAP LENGTH SHALL BE 50 TIMES DIAMETER OF BAR. LAPS SHALL BE STAGGERED ALTERNATIVELY.
7. CLEAR COVER TO LONGITUDINAL REINFORCEMENT SHALL BE 60MM.
8. INITIAL LOAD TEST SHALL BE CONDUCTED UPTO A MAXIMUM TEST LOAD OF TWO AND HALF TIMES THE SAFE LOAD CARRYING CAPACITY OF PILE. VERTICAL COMPRESSION TEST SHALL BE CARRIED OUT BY CYCLIC LOAD METHOD AS PER IS:2911 PART IV.
9. TEST SHALL BE CONDUCTED AT PILE CUT-OFF LEVEL.
10. CONCRETE SHALL BE CAST TO THE PILING PLATFORM LEVEL TO PERMIT OVERFLOW OF CONCRETE FOR VISUAL INSPECTION OR TO A MINIMUM OF 1000MM ABOVE CUT OFF LEVEL.
11. TEST RESULTS SHALL BE SUBMITTED TO OWNER/OWNER'S CONSULTANT/BHEL-PEM IMMEDIATELY AFTER COMPLETION OF THE SAME.
12. TREMIE CONCRETING SHALL BE ADOPTED.
13. TEST PILE LOCATIONS ARE INDICATIVE ONLY. MINOR MODIFICATIONS (IF REQUIRED) IN TEST LOCATIONS MAY BE DONE AT SITE IN CONSULTATION WITH OWNER.
14. LOW STRAIN PILE INTEGRITY TEST SHALL BE CARRIED OUT ON ALL TEST PILES AS PER SPECIFICATION.

REFERENCE:

1. REPORT ON GEOTECHNICAL INVESTIGATION WORK FOR 1x800MW WANAKBORI TPS, GUJARAT.
2. CUSTOMER'S TECHNICAL SPECIFICATION.
3. DRAWING NO. PE-DG-408-100-M001 TITLED, "PLOT PLAN".
4. DOCUMENT NO. PE-DC-408-607-C002 TITLED "DESIGN CALCULATION FOR 600MM DIAMETER INITIAL LOAD TEST PILES FOR MAIN PLANT / BOP AREA."

GUJARAT STATE ELECTRICITY CORPORATION LIMITED
VADODARA, GUJARAT
1x800 MW Wanakbori Thermal Power Station Extn. Unit-8

JOB NO. 408
STATUS CONTRACT
DISTRIBUTION

DEVELOPMENT CONSULTANTS PVT. LTD.
CONSULTING ENGINEERS
KOLKATA · MUMBAI · CHENNAI · NEW DELHI

BHARAT HEAVY ELECTRICALS LTD
POWER GROUP
PROJECTS ENGINEERING MANAGEMENT
NEW DELHI

DEPT CODE C

	NAME	SIGN	DATE
DRN	S.ND	-sd-	16/02/15
DESN	V.S.	-sd-	16/02/15
CHD	V.V/TMSR	-sd-	16/02/15
APPD	CPK	-sd-	16/02/15

TITLE R/C DETAILS OF 600MM DIAMETER INITIAL LOAD TEST PILE FOR MAIN PLANT / BOP AREA

DRAWING NO. PE-DG-408-607-C002
SHEET 1 OF 1 REV 00
Feb 16, 2015 - 5:49pm SIZE-A1