

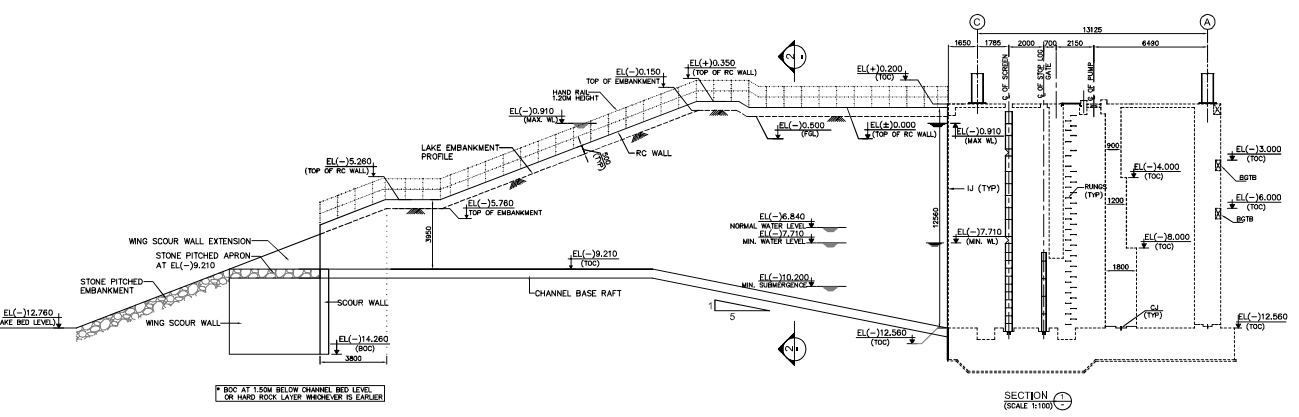
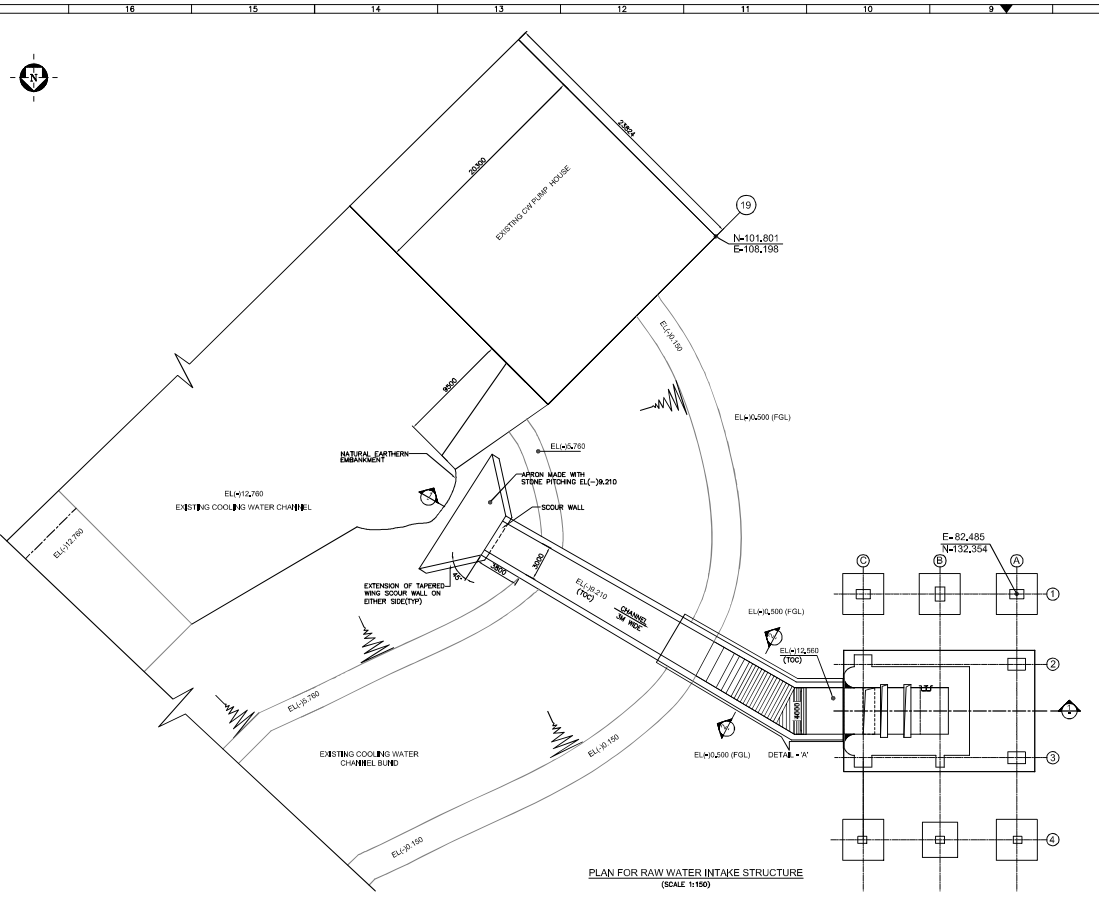
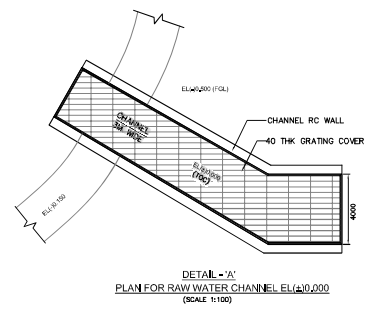
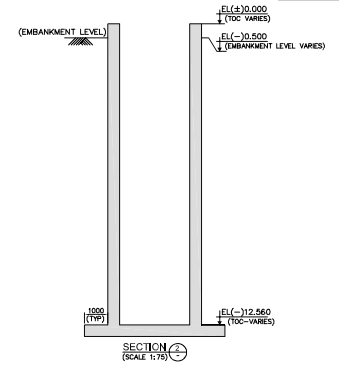
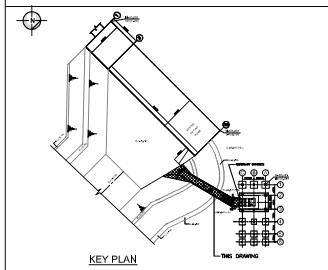
TENDER DRAWING

- NOTES**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE TERMS AND CONDITIONS AND SPECIFICATIONS OF THE CONTRACT.
 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METERS, UNDO.
 - ELEVATION (+30.000) CORRESPONDS TO THE FINISHED FLOOR LV. (FFL) OF POWER HOUSE BUILDING WHICH IS 292.700 M ABOVE MSL. THE FINISHED GROUND LV. (FGL) IS 292.260 M ABOVE MSL.
 - GRADE OF CONCRETE SHALL BE OF M40 WITH 20MM DOWN GRADED AGGREGATES.
 - REINFORCEMENT STEEL SHALL BE OF Fe 500 GRADE, CONFORMING TO IS 1786.
 - CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:
- | DESCRIPTION | TOP | BOTTOM | SIDES |
|-------------|-----|--------|-------|
| BASE RAFT | 50 | 75 | 50 |
| WALL | 50 | 50 | 50 |
| SLAB | 20 | 25 | 30 |
- LAP LENGTH (Ld) FOR REINFORCEMENT SHALL BE 50 DIA OF SMALLEST BAR BEING LAPPED.
 - FOR DETAILS OF FINISH REFER DWG NO. 0802-FGE-DR-00011.
 - 230MM WIDE PVC WATER STOP SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS FOR THE WATER RETAINING STRUCTURES.
 - UNDER GROUND STRUCTURE WATER PROOFING DETAILS REFER DWG NO. 0802-FGE-DR-00011.
 - REINFORCEMENT IS CALLED UP AS THUS:
-
- NET ALLOWABLE BEARING PRESSURE SHALL BE 65 T/M² AS PER SOIL REPORT.
 - EXCAVATION SIDES SHOULD BE SLOPED AT A MAXIMUM SLOPE OF (2:1) (OH:W) OR FLATTER. EXTENSIVE DE-WATERING IS REQUIRED FOR EXCAVATION.
 - IN CASE OF ANY LOOSENING OF SOIL AT FOUNDING LEVEL DURING EXCAVATION, THE SAME SHALL BE REMOVED AND COMPENSATED BY RCC OF GRADE WITH.
 - CONSTRUCTION JOINTS AT SUMP WALL AND BREAST WALL ARE TO BE DECIDED AT SITE.

- LEGEND:**
- BOC - BOTTOM OF CONCRETE
 - CL - CENTER LINE
 - EL - ELEVATION
 - FGL - FINISHED GROUND LEVEL
 - FFL - FINISHED FLOOR LEVEL
 - TC - TOP OF CONCRETE
 - THK - THICKNESS
 - TYP - TYPICAL
 - UND - UNLESS NOTED OTHERWISE

- REF. DRAWINGS:**
- (CONSTRUCTION)
- 0802-FGE-DR-00010 - STANDARD NOTES FOR RCC WORKS
 - 0802-FGE-DR-00011 - STANDARD DETAILS FOR RCC WORKS
 - 0802-FGE-DR-00019 - RAW WATER INTAKE STRUCTURE, C.A. & R.C. DETAILS OF SUB STRUCTURE (SHT 1 OF 2)
- (ENGINEERING)
- 0802-DWG-M-000A - PLOT PLAN
 - 0802-FGE-DR-00011 - GENERAL ARRANGEMENT OF GA RAW WATER PUMP HOUSE (2 SHEETS)

- SPECIAL NOTES:**
- ARMED CONDUIT SHALL BE RC FRAME PIPE & HEAVY DUTY CLASS NPA CONFORMING TO IS-458-2003.
 - SUPPLY, TRANSPORTATION & ERECTION OF RC FRAME PIPE SHALL CONFORM TO IS-458-2003. IN PARTICULAR FOLLOWING CLAUSE AS PER IS-458-2003 SHALL BE ADHERED TO:
- DIMENSIONS, DESIGN & STRENGTH REQUIREMENT.
 - SPOUT & SOCKET DIMENSIONS
 - RUBBER RING JOINTS USED IN PIPE JOINTS
 - WORKMAN SHIP, INSPECTION & TESTINGS
 - CURING & CONCRETING (CUBE TEST RESULTS TO BE SUBMITTED)



REV.	DATE	DESCRIPTION	DRN.	CHK.	APP.	DATE

PROJECT TITLE: KORBA WEST THERMAL POWER PROJECT
1 x 500 MW (EXTENSION STAGE II)

OWNER: CHENNAI THERMAL STATE POWER GENERATION COMPANY LIMITED
(A SUCCESSOR COMPANY OF C.S.P.S.)

OWNER'S CONSULTANT: DEVELOPMENT CONSULTANT PVT LTD
CONSULTING ENGINEERS
KORBA

BOP CONSORTIUM: TECPRO SYSTEMS LIMITED
TECPRO ASHTECH LTD
VA TECH WABAG LTD
GARHCHINDEA LTD

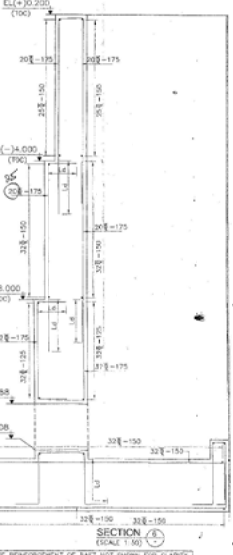
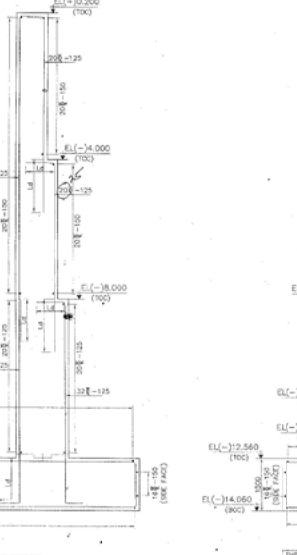
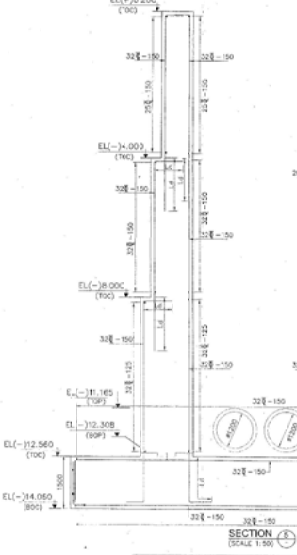
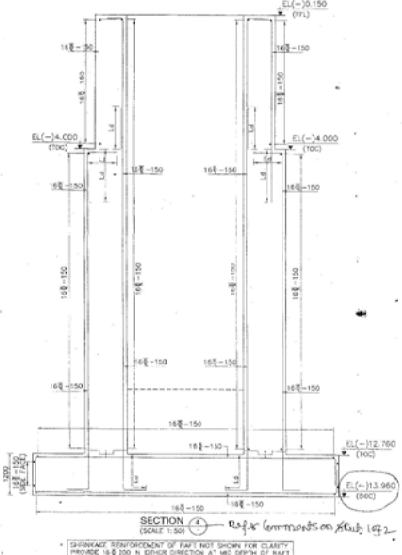
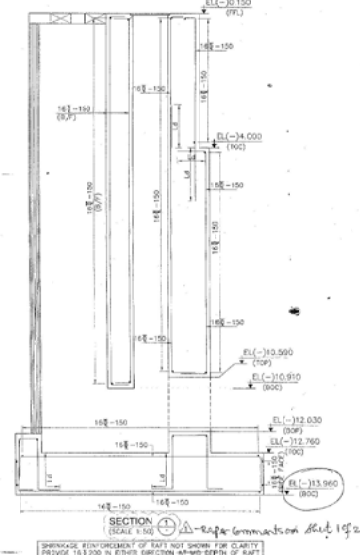
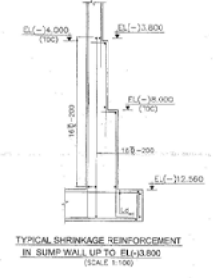
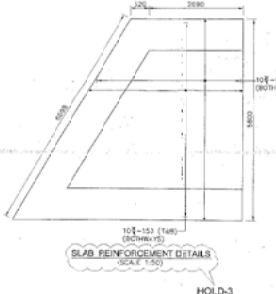
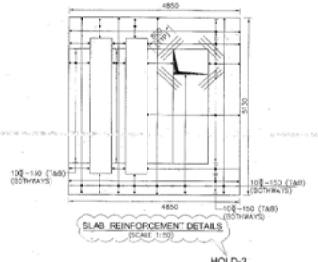
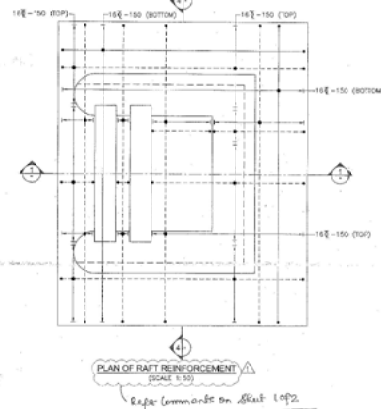
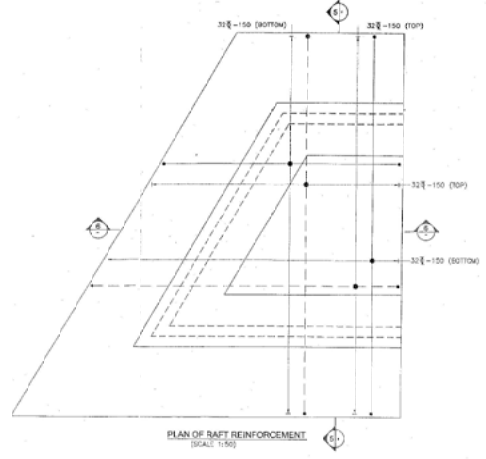
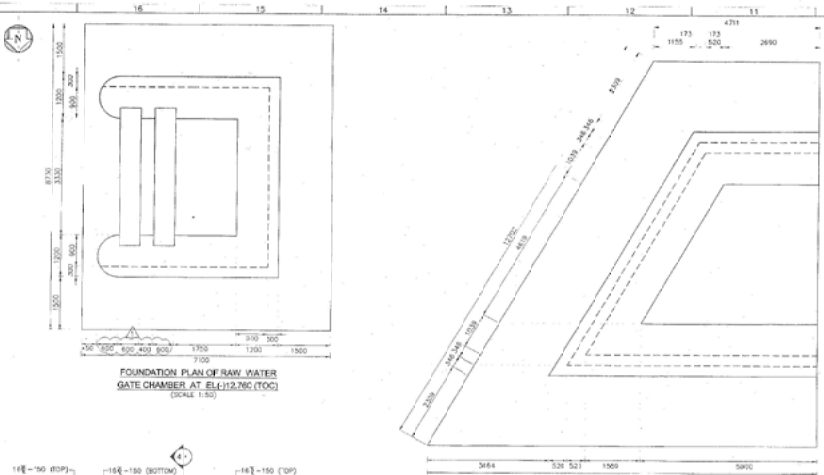
BOP CONSORTIUM'S CONSULTANT: FECHTMER Consulting Engineers (India) Private Limited
CHENNAI

NO.	DATE	DRG. TITLE	SCALE	NO. SHEETS
1	03.02.11	RAW WATER INTAKE STRUCTURE	AS PER DWG	1
2	03.02.11	C.A. & R.C. DETAILS OF SUB STRUCTURE (SHT 1 OF 2)	AS PER DWG	1

DEPT. CHAL. JOB NO. 0802 SCALE: AS SHOWN

DWG. No. 11255-001-POC-A-012

TENDER DRAWING



- NOTES**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE TERMS, CONDITIONS AND SPECIFICATIONS OF THE CONTRACT.
 2. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
 3. ELEVATIONS TO 20,000 CORRESPOND TO THE FINISHED FLOOR LEVEL (FFL) OF POWER HOUSE BUILDING WHICH IS 292.760 M ABOVE MSL. THE FINISHED GROUND LEVEL (FGL) IS 292.260 M ABOVE MSL.
 4. GRADE OF CONCRETE SHALL BE OF M30 WITH 20MM SPACING GRADUATED.
 5. REINFORCEMENT STEEL SHALL BE OF Fe 500 GRADE, CONFORMING TO IS 1786.
 6. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:

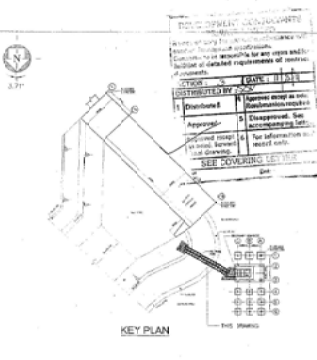
DESCRIPTION	TOP	BOTTOM	SEASIDE
BASE RAFT	50	75	50
WALL	50	50	50
SLAB	25	25	50
 7. LIFT LENGTH (L/D) FOR REINFORCEMENT SHALL BE 5% OR OF SMALLEST BAR BEING LIFTED.
 8. FOR DETAILS OF BARS REFER IS 800-FCR-DR-0001.
 9. 25MM WIDE PVC WATER STOP SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS FOR THE WATER RETAINING STRUCTURES.
 10. UNDER GROUND STRUCTURE WATER PROOFING DETAILS REFER DWG NO. 8002-FCR-DR-0001.
 11. REINFORCEMENT IS CALLED BY AS THIS:

DESCRIPTION	SYMBOL
BOTTOMS	○
BOTTOM BAR	○
TOP BAR	○
BAR SPACING (CENTERS)	○
BAR SIZE	○
TYPE OF STEEL (DWT-Fx 100)	○
NUMBER OF BARS	○
 12. NET ALLOWABLE BEARING PRESSURE SHALL BE 65 T/M² FOR SOIL REPORT.
 13. EXCAVATION SIDES SHOULD BE SHORED AT A MAXIMUM LEVEL OF (D/2) (DWT) OR FLATTER EXTENSIVE SO-WAITING IS REQUIRED FOR EXCAVATION.
 14. IN CASE OF ANY LOSING OF SOIL AT FOUNDING LEVEL DURING EXCAVATION, THE SAME SHALL BE REMOVED AND COMPENSATED BY FILL OF GRADE FILL.
 15. CONSTRUCTION JOINTS AT SUMP WALL AND BRISTAL WALL ARE TO BE SIGNED AT SITE.

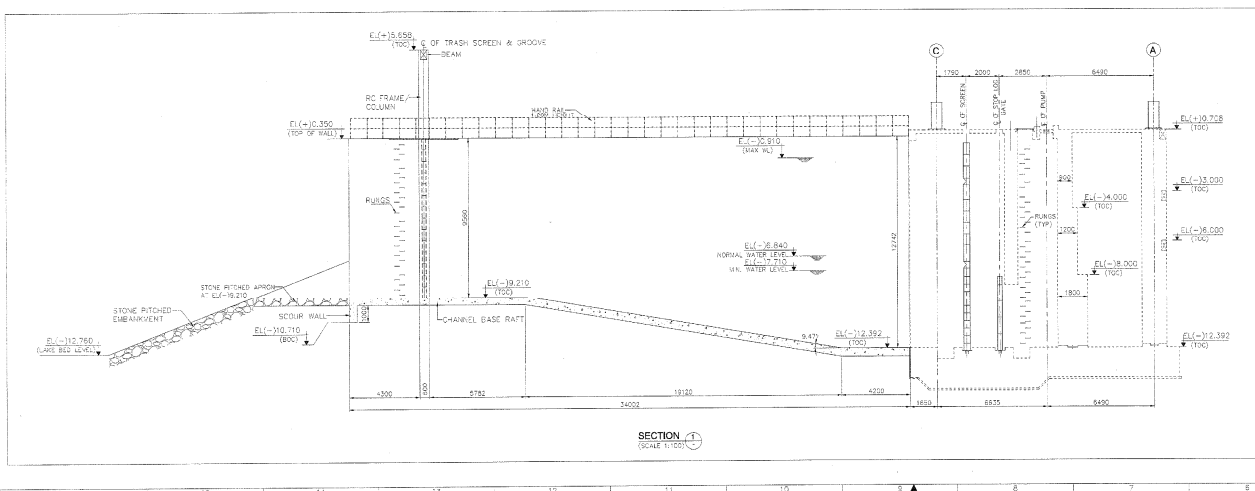
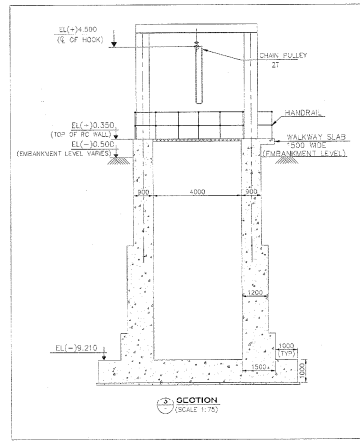
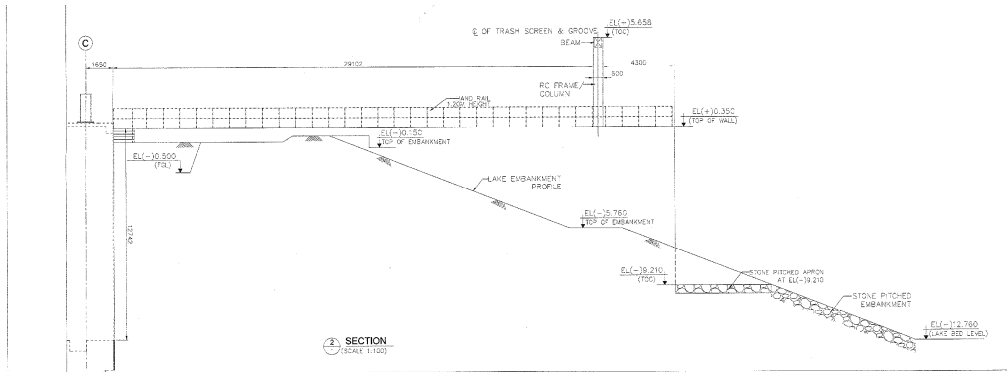
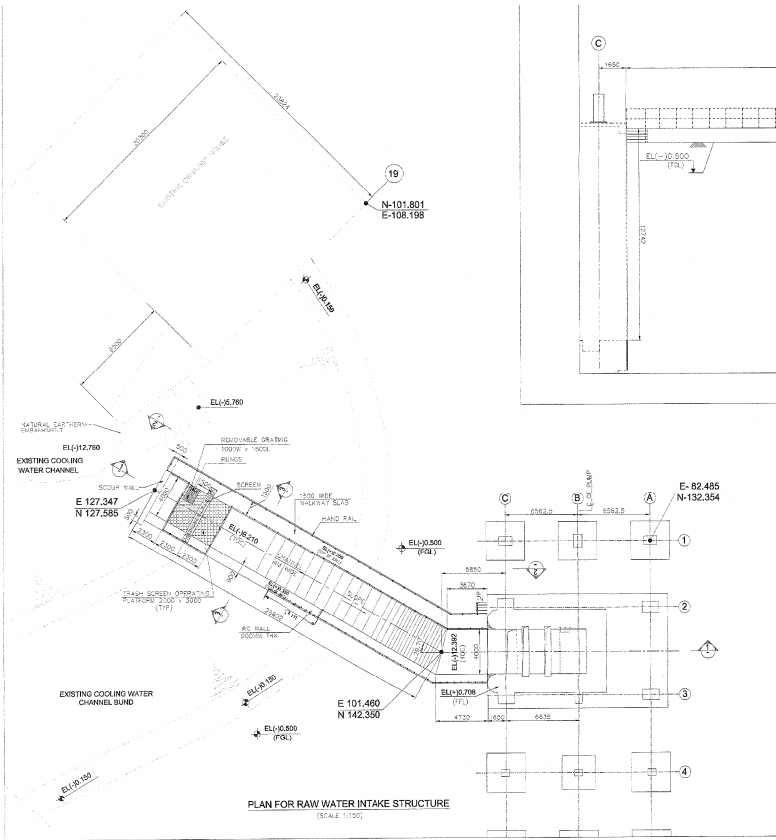
- LEGEND**
- BOC - BOTTOM OF CONCRETE
 - C - CENTER LINE
 - C.J. - CONSTRUCTION JOINT
 - EL - ELEVATION
 - U/L - LEVEL
 - L/E - DEVELOPMENT LENGTH
 - PLT - PLATE
 - SK - THICKNESS
 - TOP - TOP OF CONCRETE
 - TOP - FINISH
 - UNO - UNLESS NOTED OTHERWISE

- REFERENCE DRAWINGS**
- 1. 8002-FCR-DR-0001 - STANDARD NOTES FOR RCC WORKS
 - 2. 8002-FCR-DR-0001 - STANDARD DETAILS FOR RCC WORKS
 - 3. 8002-FCR-DR-0000 - RAW WATER PUMP HOUSE - ARCHITECTURAL PLANS & ELEVATIONS
 - 4. 8002-FCR-DR-0001 - RAW WATER PUMP HOUSE - SECTIONS & FINISH SCHEDULES
 - 5. 8002-FCR-DR-0006 - RAW WATER INTAKE STRUCTURE C.A. & R.C. DETAILS OF SUB STRUCTURE (SHT 1 OF 2)
 - 6. 8002-FCR-DR-0001 - PILOT PLAN
 - 7. 8002-FCR-DR-0001 - GENERAL ARRANGEMENT OF RAW WATER PUMP HOUSE

- HOLD LIST:**
1. PENDING FINALIZATION OF FINANCIAL DATA
 2. PENDING FINALIZATION OF DESIGN
 3. PENDING FINALIZATION OF DESIGN



1. DRAWING	2. REVISION	3. DATE	4. BY	5. CHECKED	6. APPROVED
<p>PROJECT TITLE KORBA WEST THERMAL POWER PROJECT 1 X 500 MW (EXTENSION PHASE II) TOPRA, BHILAI, CHHATTISGARH.</p> <p>OWNER CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED A POWERGEN COMPANY OF ISE&R</p> <p>OWNER'S CONSULTANT DEVELOPMENT CONSULTANT PVT LTD CONSULTING ENGINEERS BOMBAY</p> <p>DRP CONSULTANT TECPRO SYSTEMS LIMITED TECPRO ABTECH LTD VATECO WAMG LTD GAMFON INDIA LTD</p> <p>DRP CONSULTANT'S LOCAL PARTNER FIGHTNER Consulting Engineers (India) Private Limited CHENNAI</p>					
<p>SCALE SECTION: 1:50 PLAN: 1:50</p> <p>DATE 2015.08.08</p> <p>PROJECT NO. 11255-001-PC-A-012</p>					



GROUND FLOOR 200.76 M ABOVE MSL.
 3. SCREEN EACH SECTION 4 NOS. - 2370(HIGH) x 4300(WIDTH)

SPECIAL NOTE:-
 1. AS PER DOC. ADVISED TO IAL ON 07.06.11, GENERAL DRAWING FOR INTAKE ARRANGEMENT HAS BEEN DEVELOPED AND SUBMITTED FOR APPROVAL.
 2. STRUCTURAL NUMBER SIZE / DIMENSIONS SHOULD BE INDICATED ONLY. PLEASE REFER CIVIL DRAWING 0802-FCR-DR-0018 FOR ACTUAL DIMENSIONS.

LEGENDS:-
 EL = ELEVATION
 FF = FINISHED FLOOR LEVEL
 FGL = FINISHED GROUND LEVEL
 TOC = TOP OF CONCRETE

REFERENCE DRGS.
 1. 0802-FCR-M-0034 - PLOT PLAN
 2. 0802-FCR-DR-0001 - GA OF RAW WATER PUMP HOUSE

DEVELOPMENT CONSULTANTS PRIVATE LIMITED

Reviewed only for general conformances with the drawings and specifications. Consultant is not responsible for any errors and for the extent of any and the consequences of consultant's drawings.

DATE: 28/05/11

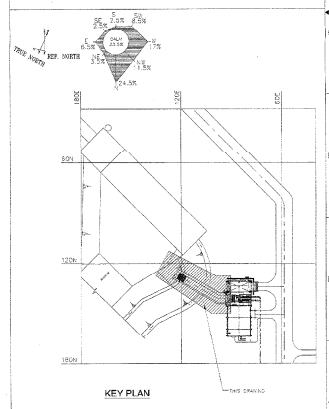
Checked by: [Signature]

Approved by: [Signature]

For information and record only.

COVERING LEVER

JEL/2281 Date: _____



NO.	REVISION	FOR APPROVAL	BY	DATE	STATUS
1		FOR APPROVAL			ISSUED

PROJECT TITLE: **KORBA WEST THERMAL POWER PROJECT 1 X 500 MW (EXTENSION STAGE II)**
 KORBA (INDIA), CHHATTISGARH.

OWNER: **CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED**
 (A SUBSIDIARY COMPANY OF C.S.I.P.)

TENDER DRAWING:

TITLE: **GA of existing Raw Water Intake Arrangement (Stage-II Extension, 1X500 MW)**
 DRWG. NO: **11255-001-POC-A-011**

SCALE OF	APPROVED	TITLE
GENERAL	ISSUED	GA OF RAW WATER INTAKE ARRANGEMENT

DRWG. NO.	SCALE	DATE	DRWG. NO.	REV.
0802-FCR-DR-0001	1:100	11/06/11		0