



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:SND-M757:TCN-01

Date: 25-05-2007

Sub	Tender change notice (TCN) 01.
Job	HANDLING FROM STORAGE, ERECTION, WELDING, NON-DESTRUCTIVE TESTING, INSPECTION, INTERNAL CLEANING AND PAINTING, TESTING AND COMMISSIONING OF RAW WATER PIPING AND ASSOCIATED MATERIAL AT 1 X 250 MW, SANTALDIH TPS # 5, WEST BENGAL
Ref	Tender no PSER:SCT:SND-M757:07.

With reference to above, following points, relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 **ANNEXURE – I of the NIT (PRE QUALIFICATION REQUIREMENTS OF THE BIDDERS) stands superceded by ANNEXURE – I of TCN – 01, enclosed.**
- 2.0
 - a) Drawing no. 6494M316-SHT1-01-090107
 - b) Drawing no. 6494M316-SHT2-01-090107
 - c) Drawing no. 6494M316-SHT3-01-090107

Bidders to note that this TCN-01 will form part of the tender document.

All other terms & conditions of subject tender/ tender documents shall remain unchanged.

Based on above, you are requested to submit your offer by due date.

Thanking you,

Yours faithfully,
for BHARAT HYEAVY ELECTRICALS LTD

SENIOR MANAGER (SCT)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)
POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091
फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211691

PRE QUALIFICATION REQUIREMENTS FOR BIDDERS TO QUOTE FOR THE WORK OF HANDLING FROM STORAGE, ERECTION, WELDING, NON-DESTRUCTIVE TESTING, INSPECTION, INTERNAL CLEANING AND PAINTING, TESTING AND COMMISSIONING OF RAW WATER PIPING AND ASSOCIATED MATERIAL AT 1 X 250 MW, SANTALDIH TPS # 5, WEST BENGAL

1. BIDDER SHOULD HAVE AN AVERAGE MINIMUM ANNUAL TURNOVER OF Rs. 6.3 CRORES IN LAST 3 (THREE) FINANCIAL YEARS ENDING ON 31/03/2006 AND EARNED PROFIT IN ANY ONE YEAR DURING LAST 3 (THREE) FINANCIAL YEARS ENDING ON 31/03/2006 AND HAVE POSITIVE NET WORTH AS ON 31/03/2006.

AUDITED BALANCE SHEET AND PROFIT AND LOSS ACCOUNT FOR THE LAST THREE YEARS ENDING ON 31/03/2006 SHALL BE SUBMITTED IN SUPPORT OF ABOVE.

2. BIDDER SHOULD HAVE EXECUTED/ EXECUTING UNDER GROUND PIPING WORKS OF DIA 900 MM OR ABOVE DURING LAST 7 (SEVEN) YEARS ENDING ON 31/03/2007.

RELEVANT DOCUMENT IN SUPPORT OF ABOVE SHALL BE SUBMITTED.

3. BIDDER SHOULD HAVE VALID PAN AND P.F. ACCOUNT/ REGISTRATION.

RELEVANT DOCUMENT IN SUPPORT OF ABOVE SHALL BE SUBMITTED.

4. BIDDER SHOULD HAVE WORKED/ WORKING WITH ANY PUBLIC SECTOR UNDERTAKING/ GOVERNMENT ORGANISATION/ REPUTED ORGANISATION FOR SIMILAR WORK.

RELEVANT DOCUMENT IN SUPPORT OF ABOVE SHALL BE SUBMITTED.

NOTE:

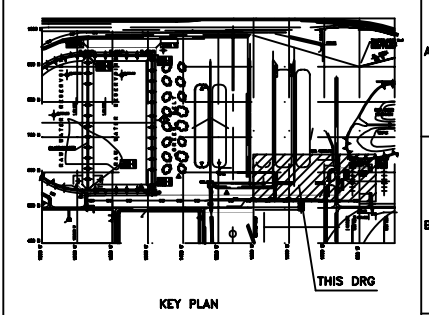
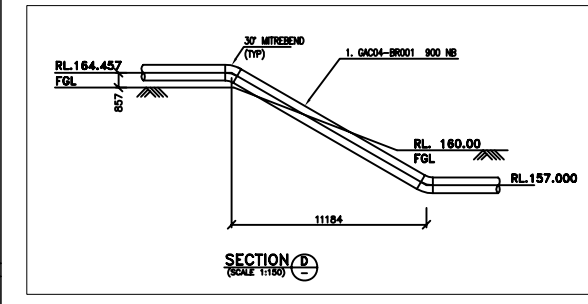
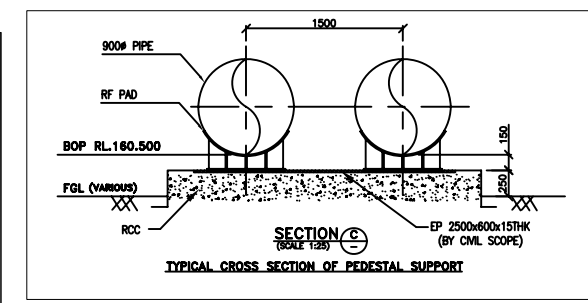
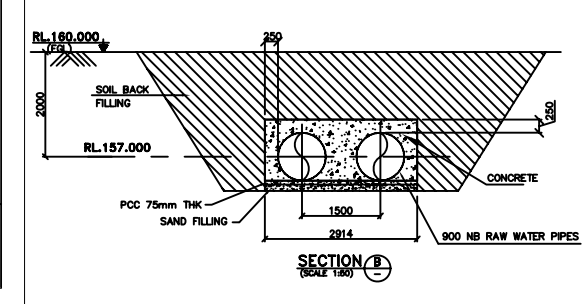
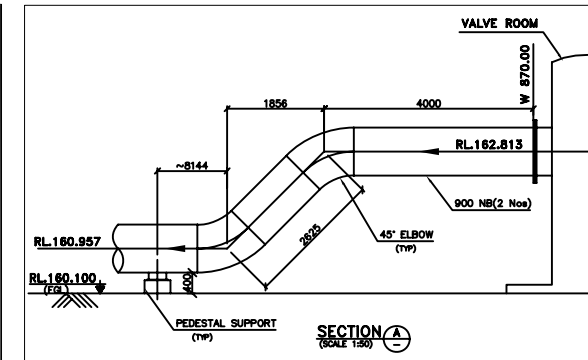
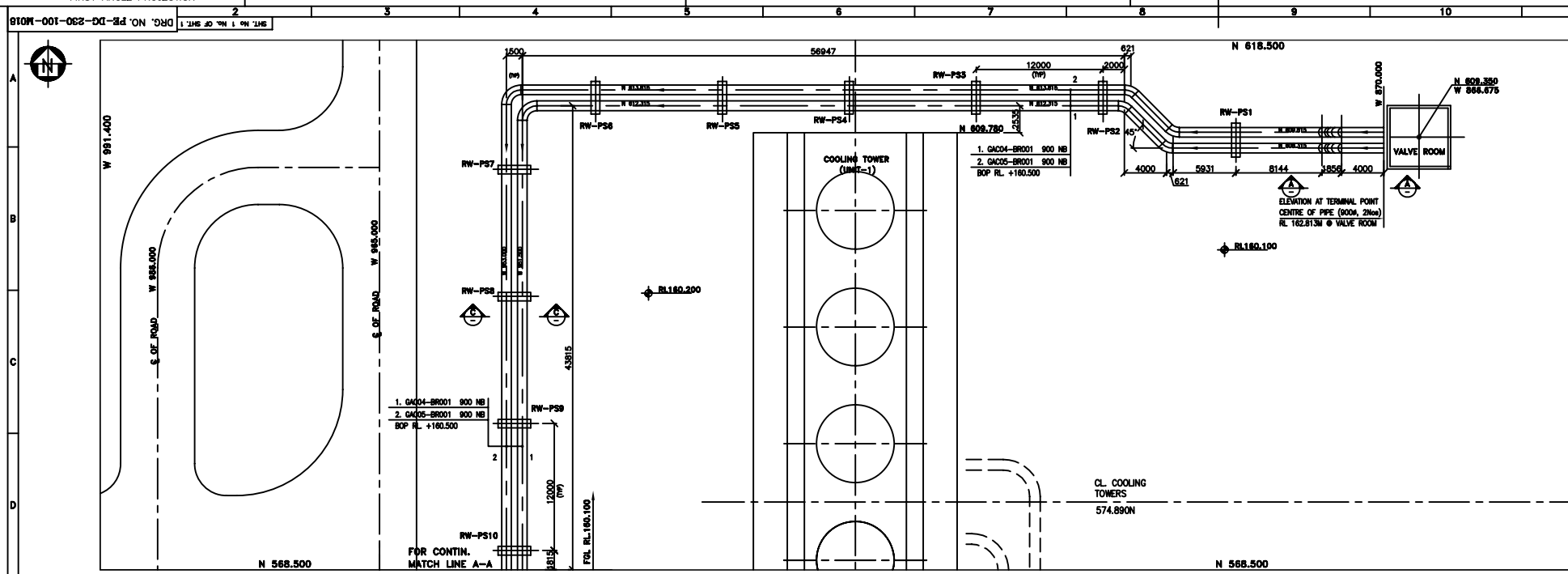
CONSIDERATION OF BIDDER SHALL BE SUBJECT TO CUSTOMER'S (WBPDC) APPROVAL.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211691



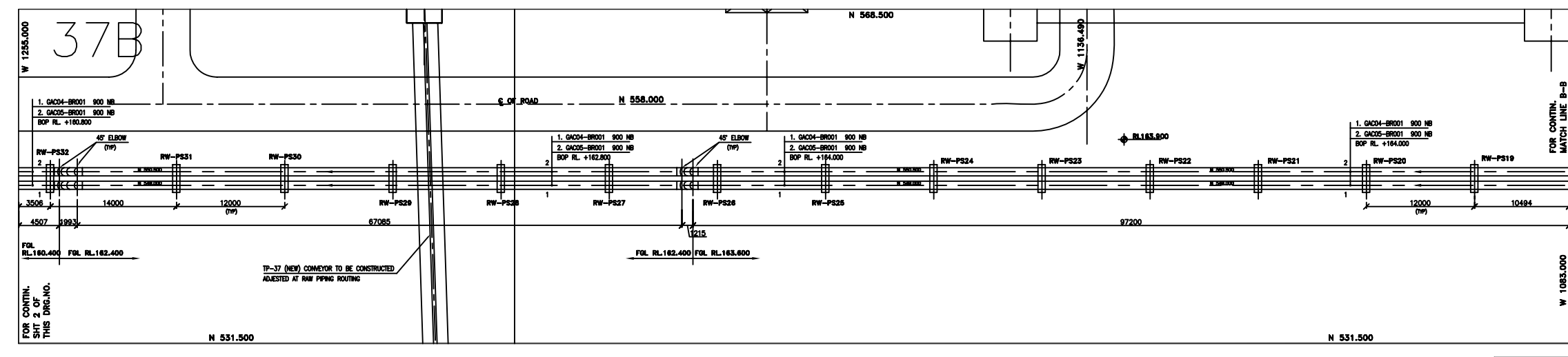
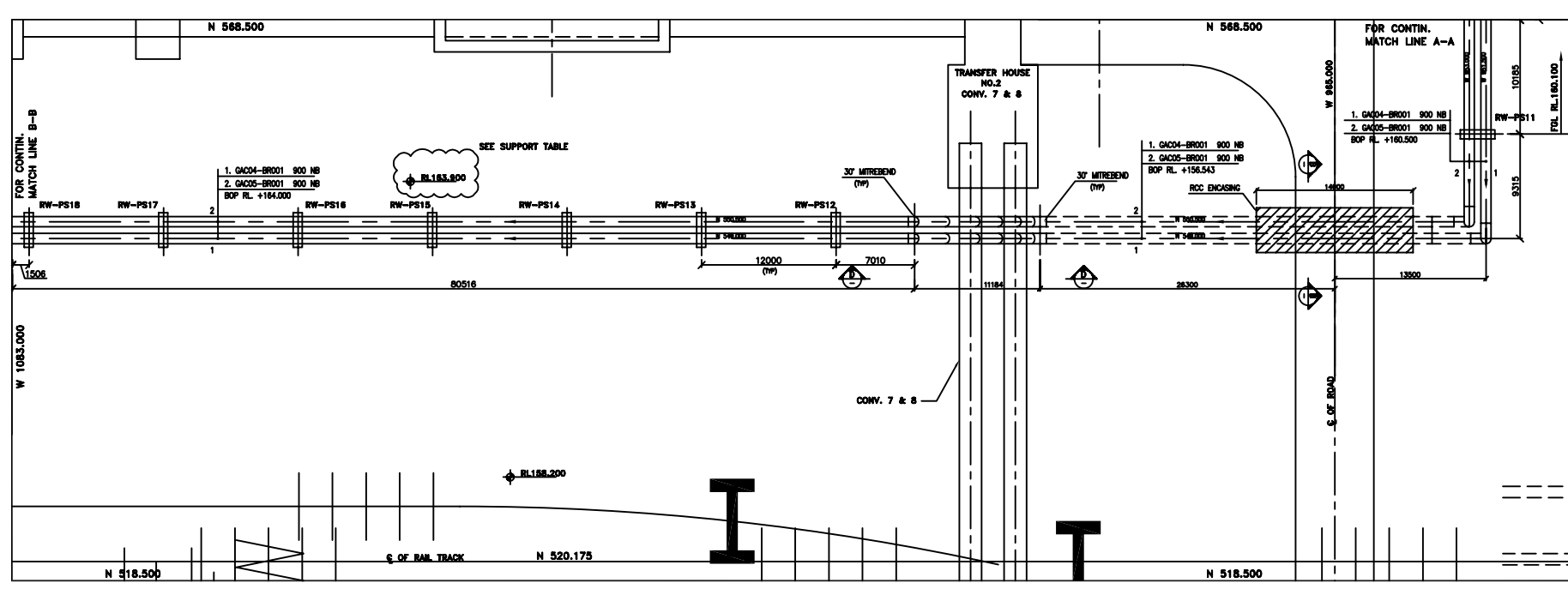
- NOTES:**
1. ALL DIMENSIONS ARE IN MM AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 2. ALL ELEVATIONS ARE REFERRED TO POWER HOUSE GROUND FLOOR ELEVATION 80.00M WHICH CORRESPONDS TO RL 160.00M.
 3. PEDESTAL SUPPORTS WILL BE PROVIDED AT EVERY 12M DISTANCE.

- REF. DRAWING:**
1. PE-00-230-100-0001 - PLOT PLAN
 2. PE-00-230-004-0015 - RAW WATER RESERVOIR DETAILS OF SECTIONS
 3. PE-00-230-172-0101 - P & I DIAGRAM FOR PLANT WATER SYSTEM

- LEGENDS:**
- FINISHED GROUND LEVEL
 - ELEVATION
 - BOTTOM OF PIPE
 - REFERENCE LEVEL

SUPPORT TABLE

SUPPORT TAG NO.	REMARKS
RW-PS1 TO RW-PS11	AS PER SURVEY THE AREA BETWEEN SUPPORT RW-PS1 TO RW-PS11 IS HAVING A VARIED GROUND LEVEL OF RL.160.800-RL.158.954. HENCE THIS AREA BETWEEN THE SUPPORT MENTIONED SHALL BE GRADED TO RL.160.100M
RW-PS12 TO RW-PS28	AS PER SURVEY THE AREA BETWEEN SUPPORT RW-PS12 TO RW-PS28 IS HAVING A VARIED GROUND LEVEL OF RL.163.200-RL.163.800. HENCE THIS AREA BETWEEN THE SUPPORT MENTIONED SHALL BE GRADED TO RL.163.800M
RW-PS27 TO RW-PS31	AS PER SURVEY THE AREA BETWEEN SUPPORT RW-PS27 TO RW-PS31 IS HAVING A VARIED GROUND LEVEL OF RL.163.200-RL.163.800. HENCE THIS AREA BETWEEN THE SUPPORT MENTIONED SHALL BE GRADED TO RL.162.800M



PLAN AT TOP RL (+) 164.000M, 162.800M & 160.500M FROM GRID 851.400W TO 1255.00W

FICHTNER DWG. NO. 00-0494-M-316

OWNER: WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.,

PROJECT: 1x250MW SANTALDIH THERMAL POWER STATION EXTENSION UNIT 5

CONSULTANTS: DEVELOPMENT CONSULTANTS LIMITED, CALCUTTA

DESIGNER: BHARAT HEAVY ELECTRICALS LTD

PROJECT ENGINEERING MANAGEMENT: NEW DELHI

ENGINEERING SUB CONTRACTOR: FICHTNER CONSULTING ENGINEERS (INDIA) PRIVATE LTD, CHENNAI

JOB NO. : 230
STATUS :
DISTRIBUTION :
TO :
NO. OF :

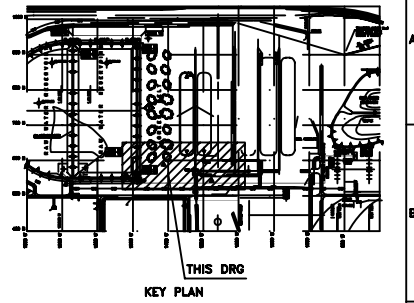
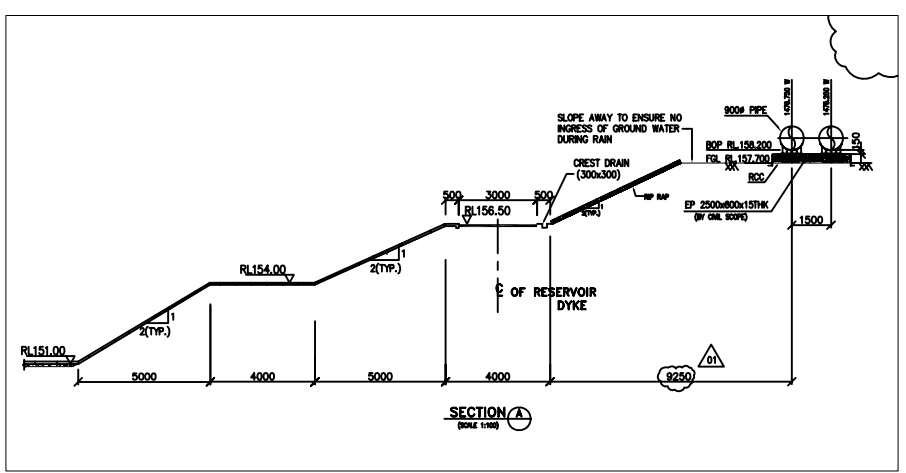
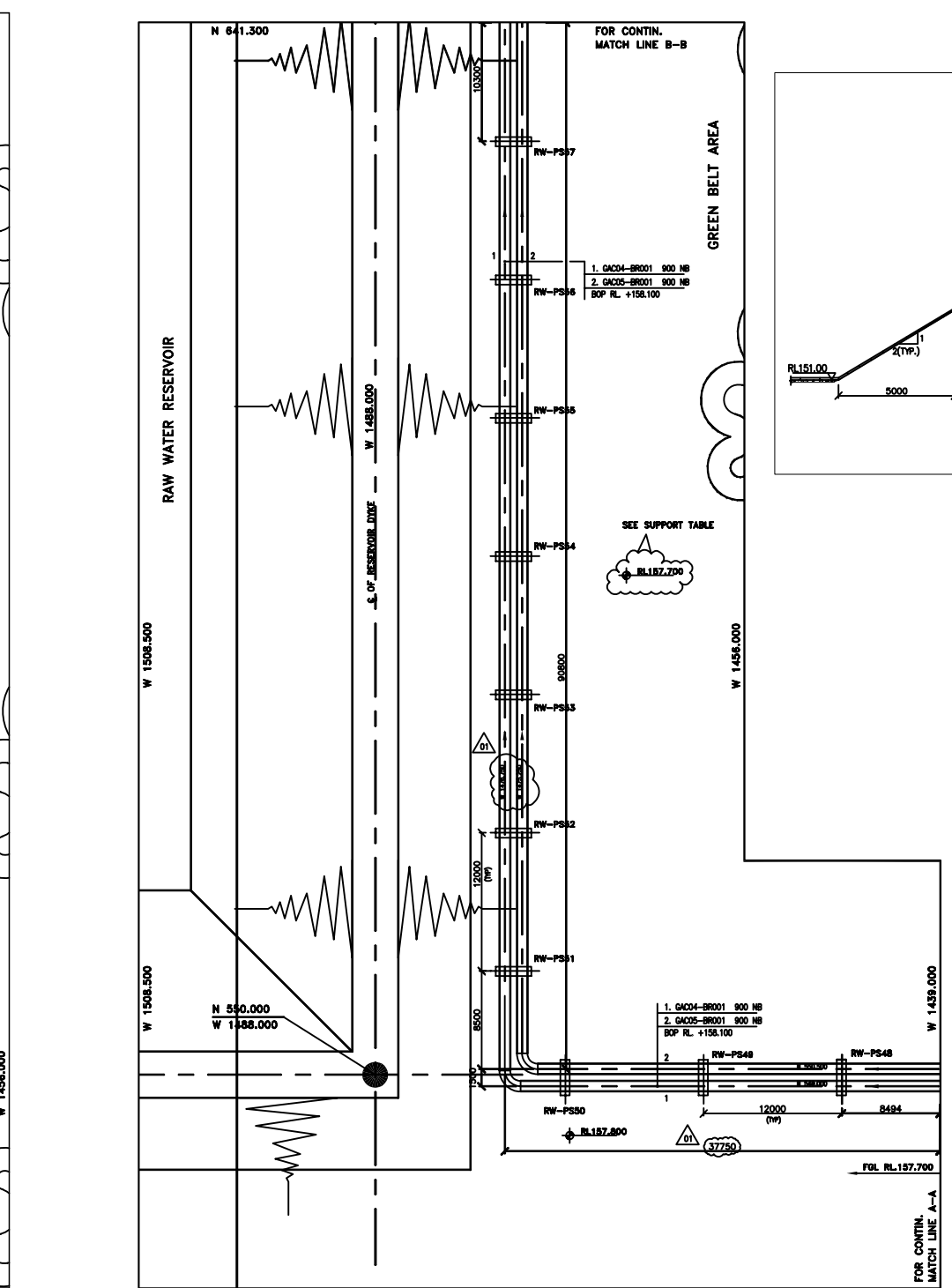
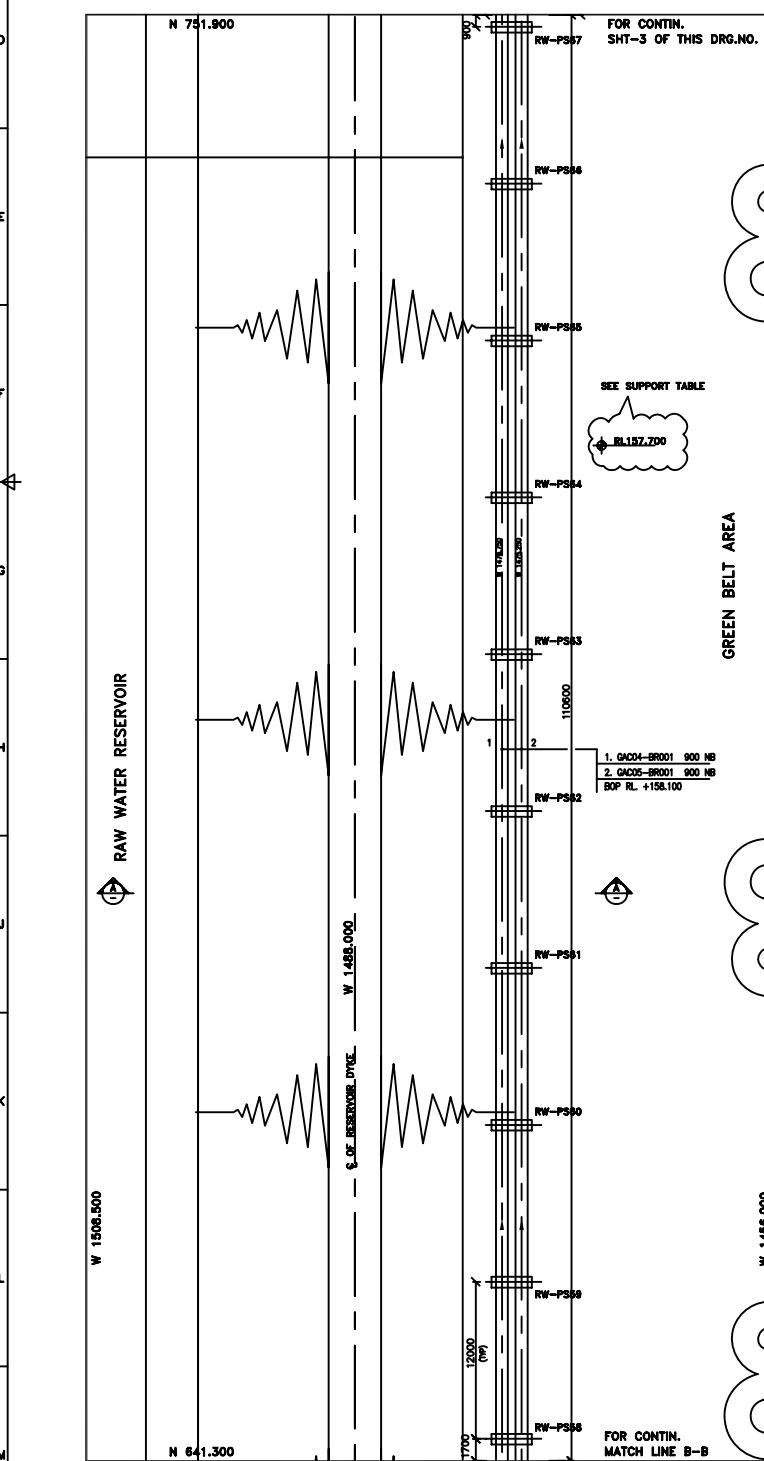
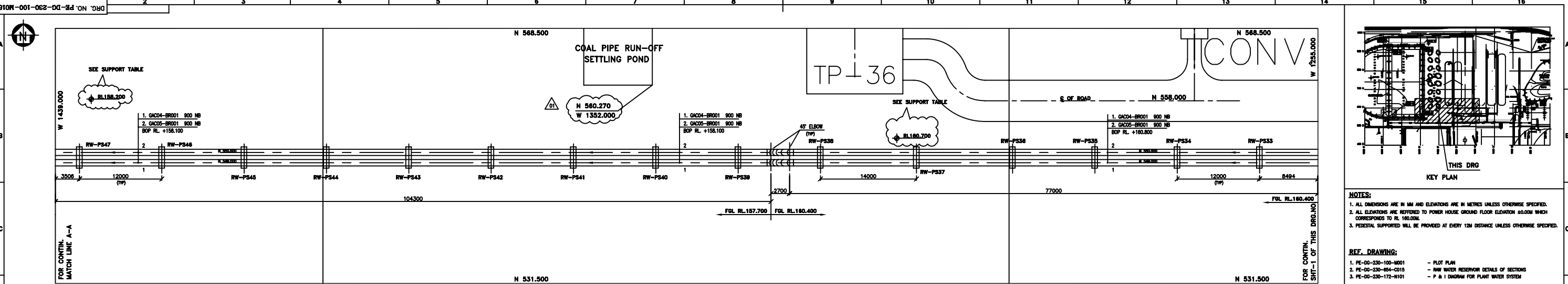
REVISIONS:

REVISED AS PER	BY	DATE
FOR APPROVAL	MAN AS	01.08.08
FOR APPROVAL	MAN AS	01.08.08
FOR APPROVAL	MAN AS	01.08.08

TITLE: RAW WATER PIPING LAYOUT FROM EXISTING VALVE ROOM TO RAW RESERVOIR (NEW)

DRAWING NO.: PE-DG-230-100-M018

SHEET NO.: 1 OF 3



NOTES:

1. ALL DIMENSIONS ARE IN MM AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. ALL ELEVATIONS ARE REFERRED TO POWER HOUSE GROUND FLOOR ELEVATION 100.00M WHICH CORRESPONDS TO RL 160.00M.
3. PEDESTAL SUPPORTED WILL BE PROVIDED AT EVERY 12M DISTANCE UNLESS OTHERWISE SPECIFIED.

REF. DRAWING:

- 1. PE-00-230-100-0001 - PLOT PLAN
- 2. PE-00-230-100-0015 - RAW WATER RESERVOIR DETAILS OF SECTIONS
- 3. PE-00-230-172-0101 - P & I DIAGRAM FOR PLANT WATER SYSTEM

LEGENDS:

- FGL - FINISHED GROUND LEVEL
- EL - ELEVATION
- BOP - BOTTOM OF PIPE
- RL - REFERENCE LEVEL

SUPPORT TABLE

SUPPORT TAG NO.	REMARKS
RW-PS32 TO RW-PS30	AS PER SURVEY THE AREA BETWEEN SUPPORT RW-PS32 TO RW-PS30 IS HAVING A VARIED GROUND LEVEL OF RL161.364-RL160.726 HENCE THIS AREA BETWEEN THE SUPPORT MENTIONED SHALL BE GRADED TO RL160.400M
RW-PS30 TO RW-PS07	AS PER SURVEY THE AREA BETWEEN SUPPORT RW-PS30 TO RW-PS07 IS HAVING A VARIED GROUND LEVEL OF RL158.863-RL157.563. HENCE THIS AREA BETWEEN THE SUPPORT MENTIONED SHALL BE GRADED TO RL157.700M

SHEET NO. 2 OF 3

PLAN AT TOP RL (+) 160.800M, 168.200M
FROM GRID 1255.00W TO 1508.50W & 531.50N TO 751.90N

WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.,
1x250MW SANTALDIH THERMAL POWER STATION
EXTENSION UNIT 5

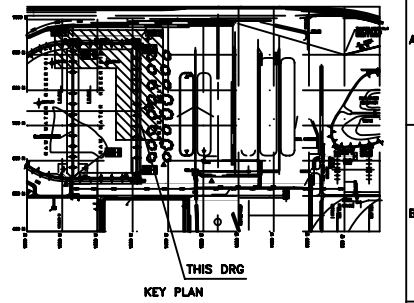
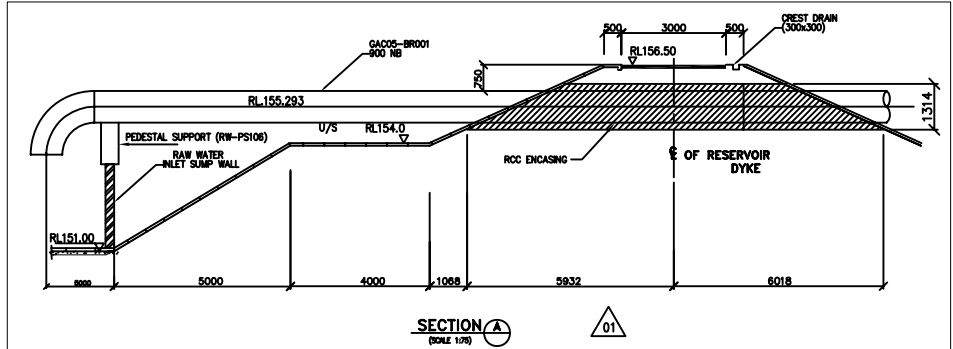
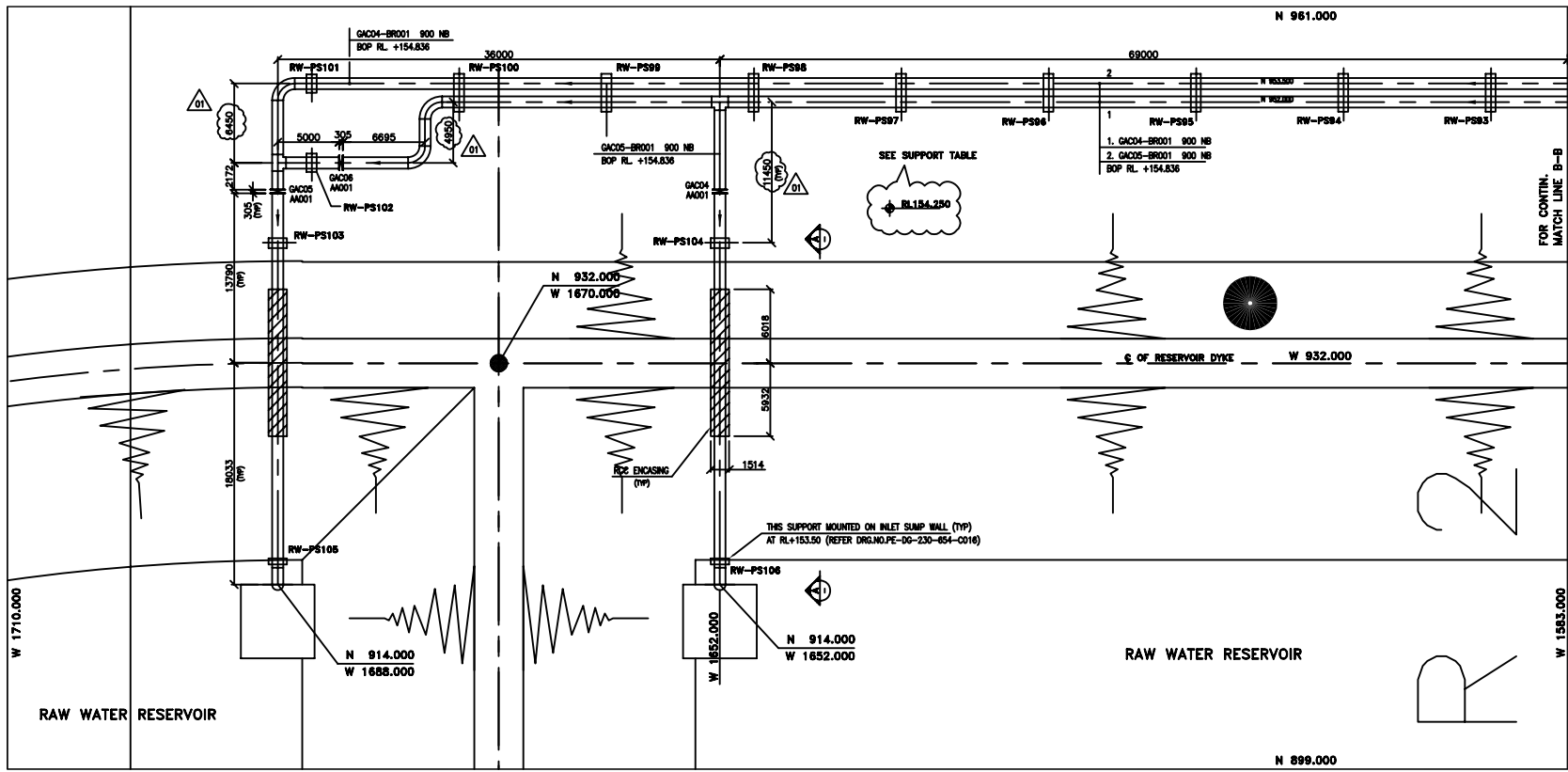
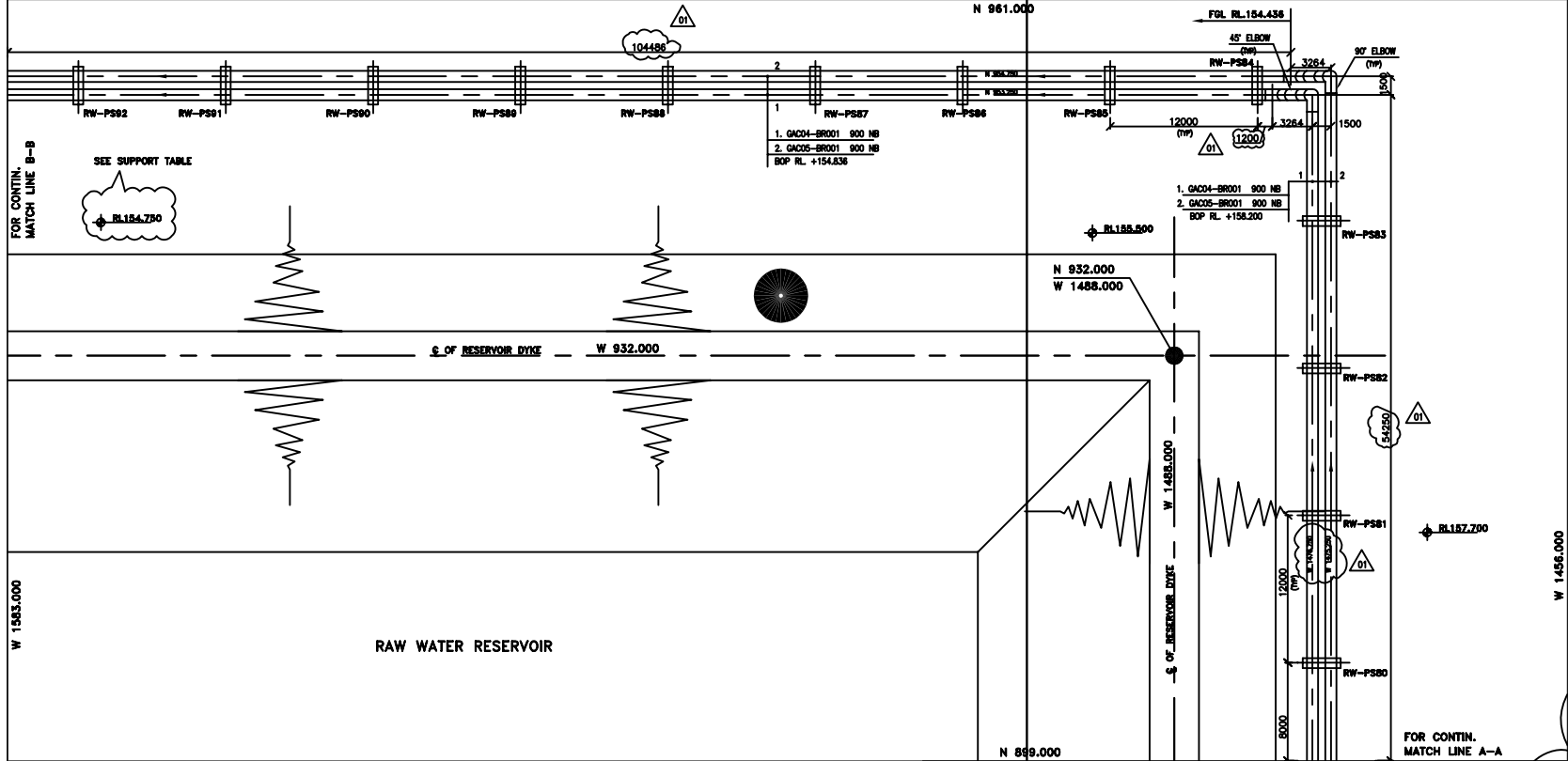
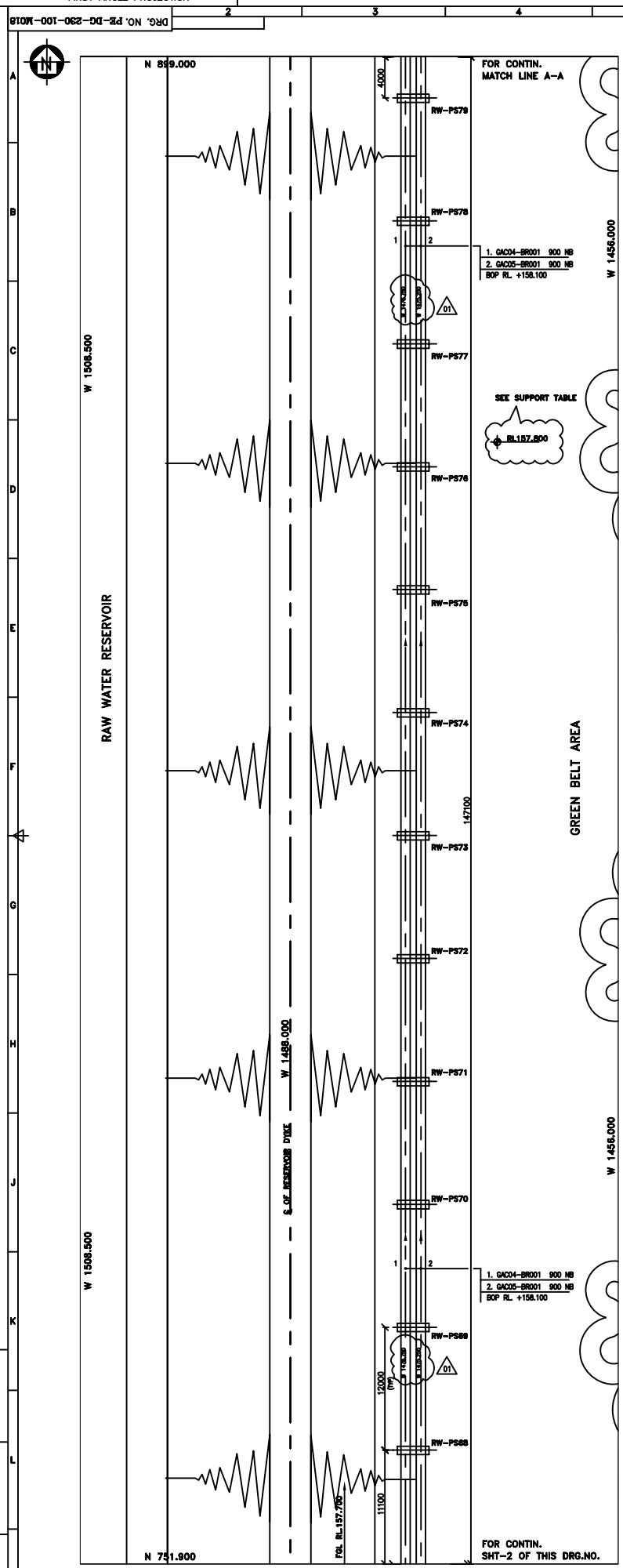
DEVELOPMENT CONSULTANTS LIMITED, CALCUTTA
BHARAT HEAVY ELECTRICALS LTD
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NEW DELHI

FICHTNER DWG. NO. 00-0494-M-517

ENGINEERING SUB CONTRACTOR: FICHTNER CONSULTING ENGINEERS (INDIA) PRIVATE LTD, CHENNAI

RAW WATER PIPING LAYOUT FROM EXISTING VALVE ROOM TO RW RESERVOIR (NEW)

DATE: 22.07.08
SHEET NO. 2 OF 3



NOTES:
 1. ALL DIMENSIONS ARE IN MM AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 2. ALL ELEVATIONS ARE REFERRED TO POWER HOUSE GROUND FLOOR ELEVATION 40.00M WHICH CORRESPONDS TO RL 160.00M.
 3. PEDESTAL SUPPORTED WILL BE PROVIDED AT EVERY 12M DISTANCE UNLESS OTHERWISE SPECIFIED.

REF. DRAWING:
 1. PE-00-230-100-0001 - PLOT PLAN
 2. PE-00-230-050-0015 - RAW WATER RESERVOIR DETAILS OF SECTIONS
 3. PE-00-230-172-0101 - P & I DIAGRAM FOR PLANT WATER SYSTEM

LEGENDS:
 FGL - FINISHED GROUND LEVEL
 EL - ELEVATION
 BOP - BOTTOM OF PIPE
 RL - REFERENCE LEVEL

SUPPORT TABLE

SUPPORT TAG NO.	REMARKS
RW-PS80 TO RW-PS83	AS PER SURVEY THE AREA BETWEEN SUPPORT RW-PS80 TO RW-PS83 IS HAVING A VARIED GROUND LEVEL OF RL.157.000-RL.157.700 HENCE THIS AREA BETWEEN THE SUPPORT MENTIONED SHALL BE GRADED TO RL.157.700M
RW-PS84 TO RW-PS104	AS PER SURVEY THE AREA BETWEEN SUPPORT RW-PS84 TO RW-PS104 IS HAVING A VARIED GROUND LEVEL OF RL.158.500-RL.154.200 HENCE THIS AREA BETWEEN THE SUPPORT MENTIONED SHALL BE GRADED TO RL.154.436M

PLAN AT TOP RL.(+) 158.200M & 154.836M
 FROM GRID 751.900N TO 961.000N & 1456.00W TO 1710.00W

FICHTNER DWG. NO. 00-8494-M-818

WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.,
 1x250MW SANTALDIH THERMAL POWER STATION
 EXTENSION UNIT 5

DEVELOPMENT CONSULTANTS LIMITED, CALCUTTA
 BHARAT HEAVY ELECTRICALS LTD
 POWER SECTOR
 PROJECT ENGINEERING MANAGEMENT
 NEW DELHI

ENGINEERING SUB CONTRACTOR: FICHTNER CONSULTING ENGINEERS (INDIA) PRIVATE LTD, CHENNAI

JOB NO. : 230
 STATUS :
 DISTRIBUTION :
 TO :
 NO. OF :

DATE : 01.01.07
 DATE : 01.08.08
 DATE : 25.07.08

REVIEWED AS PER DCL/VEL COMMENTS: MAN AS 1 01.01.07
 FOR APPROVAL: MAN AS 00 01.08.08
 PRELIMINARY ISSUE: MAN AS A 25.07.08

DETAILS CHECKED DRAWN REV. DATE

TITLE: RAW WATER PIPING LAYOUT
 FROM EXISTING VALVE ROOM TO RW RESERVOIR (NEW)
 DRAWING NO. PE-DG-230-100-M018
 SHE. No 3 OF 3 REV. 01