

SALIENT FEATURES



1. DIVERSION TUNNEL

- a) LENGTH 500m
b) DIAMETER 4.5m
c) DESIGN DISCHARGE 80 cumecs

2. DIVERSION STRUCTURE-GRAVITY DAM

- a) FRL EL. 2842.00m
b) WML EL. 2842.00m
c) MODUL EL. 2830.00m
d) RIVER BED LEVEL EL. 2810.00m
e) TOP OF THE DAM EL. 2844.00m
f) No. OF BAYS 3 (17.50 X 13m)
g) SPILLWAY CREST EL. 2817.50m
h) DESIGN FLOOD 8495 cumecs

3. INTAKE

- a) No. OF INTAKES 1
b) CAPACITY OF INTAKE 80.00 cumecs

4. DESILTING CHAMBER

- a) No. OF CHAMBERS 1
b) SIZE OF CHAMBERS 1/230X12.0X17.0
c) MINIMUM PARTICLE SIZE TO BE REMOVED 0.20mm AND ABOVE

5. HEAD RACE TUNNEL

- a) LENGTH 5.1km
b) DIAMETER 4.5m
c) DESIGN DISCHARGE 66.40 cumecs

6. SURGE SHAFT

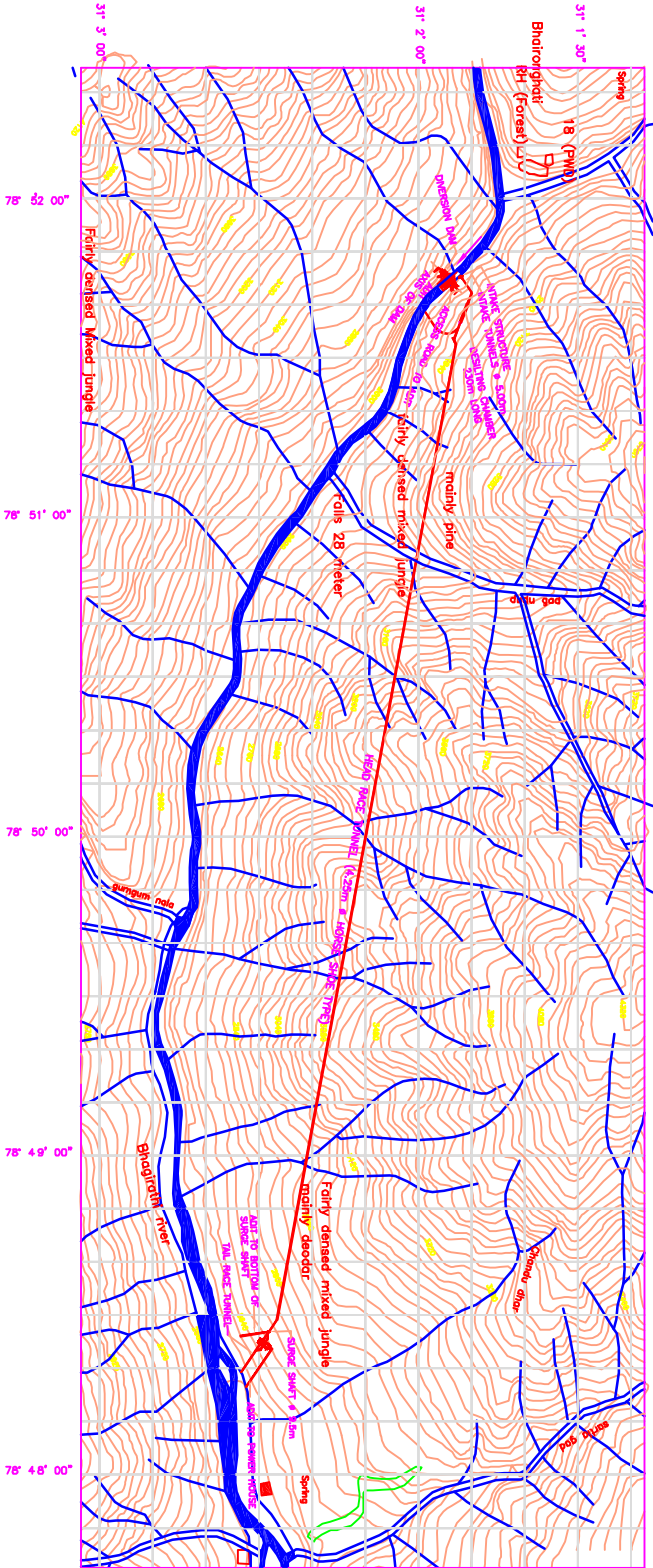
- a) DIAMETER 10m
b) MAXIMUM SURGE LEVEL EL. 2864.00m
c) MINIMUM SURGE LEVEL EL. 2602.0 m

7. PRESSURE SHAFT

- a) No. 1
b) DIAMETER 3.75 m
c) INCANUTION 1 NO.
d) TYPE UNDERGROUND
e) INSTALLED CAPACITY 2 X 32.5MW
f) MAXIMUM TML EL. 2815.00m
g) MINIMUM TML EL. 2913.00m

8. POWER HOUSE

- a) TYPE UNDERGROUND
b) INSTALLED CAPACITY 2 X 32.5MW
c) MAXIMUM TML EL. 2815.00m
d) MINIMUM TML EL. 2913.00m



NOTES

1. ALL DIMENSIONS ARE IN mm. & ELEVATIONS ARE IN METRES
UNLESS OTHERWISE SPECIFIED.
2. CONTOURS ARE BASED ON SO TOPO SHEET NO. 53 I/18(150000 SCALE)

CENTRAL ELECTRICITY AUTHORITY

PRE-FEASIBILITY REPORT
BHARONGHATI H.E. PROJECT
CONSULTANTS
WATER AND POWER
M&E
CONSULTANCY SERVICES (INDIA) LTD.

PROJECT LAYOUT PLAN

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MAR. 2004			