



SALENT FEATURES :-

- 1 DIVERSION TUNNEL

a) LENGTH 300 m
b) DESIGN DISCHARGE 60 cumecs
c) DIAMETER 5m
- 2 DIVERSION STRUCTURE-GRAVITY DAM

a) RL/MWL EL 2812.00
b) MODL EL 2790.00
c) RIVER BED LEVEL EL 2778.00
d) TOP OF THE DAM EL 2814.00
e) No. OF BAYS 4(4mX11.00m)
f) SLUICE SPILLWAY CREST EL 2781.00
g) DESIGN FLOOD (FMD) 3530 cumecs
- 3 INTAKE

a) NUMBER OF INTAKES 01
b) CAPACITY OF INTAKE 40.66 cumecs
- 4 DESILTING CHAMBER

a) NUMBER OF CHAMBER 01
b) SIZE 210m x 9.5m x 14.0m
c) MINIMUM PARTICLE SIZE TO BE REMOVED 0.2mm
- 5 HEAD RACE TUNNEL

a) LENGTH 2.84 Km.
b) DIAMETER 3.5 m. (HORSE SHOE)
c) DESIGN DISCHARGE 33.86 cumecs
- 6 SURGE SHAFT

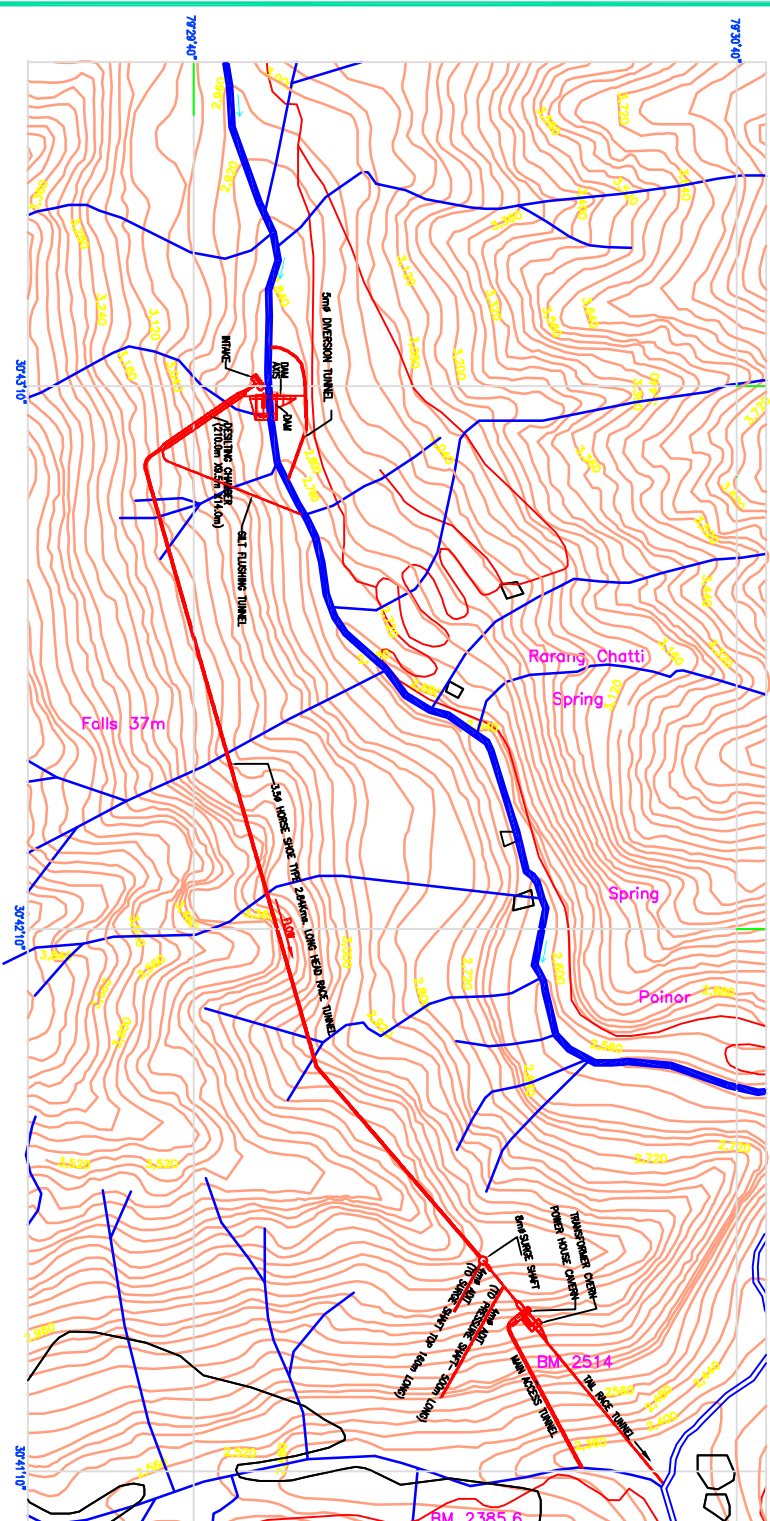
a) DIAMETER 8.0m
b) MAXIMUM SURGE LEVEL EL 2847.00
c) MINIMUM SURGE LEVEL EL 2784.00
- 7 PRESSURE SHAFT

a) NUMBER 01 (BIFUNCTION)
b) DIAMETER 2.80 m
c) INCLINATION VERTICAL
- 8 POWER HOUSE :-

a) TYPE UNDERGROUND
b) INSTALLED CAPACITY 2270 kW
c) MAXIMUM TAIL WATER EL 2353.00
d) MINIMUM TAIL WATER EL 2333.00
e) RATED HEAD 459.67m

NOTES:-

1. ALL DIMENSIONS ARE IN mm. & ELEVATIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. CONTOURS ARE BASED ON SRI TORO SHEET MD.53M/8 & 53M/10(1:50000 SCALE)



PROJECT LAYOUT

CENTRAL ELECTRICITY AUTHORITY

PRE-FEASIBILITY REPORT
BADRINATH H.E. PROJECT
CONSULTANTS
WATER AND POWER
CONSULTANCY SERVICES (PUNJ) LTD.

PROJECT LAYOUT PLAN

DRAWN BY:	DESIGN BY:	APPROVED BY:	SCALE
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MAR. 2004			
			DRG. NO. WAP / PFR/BADRINATH/1001/71