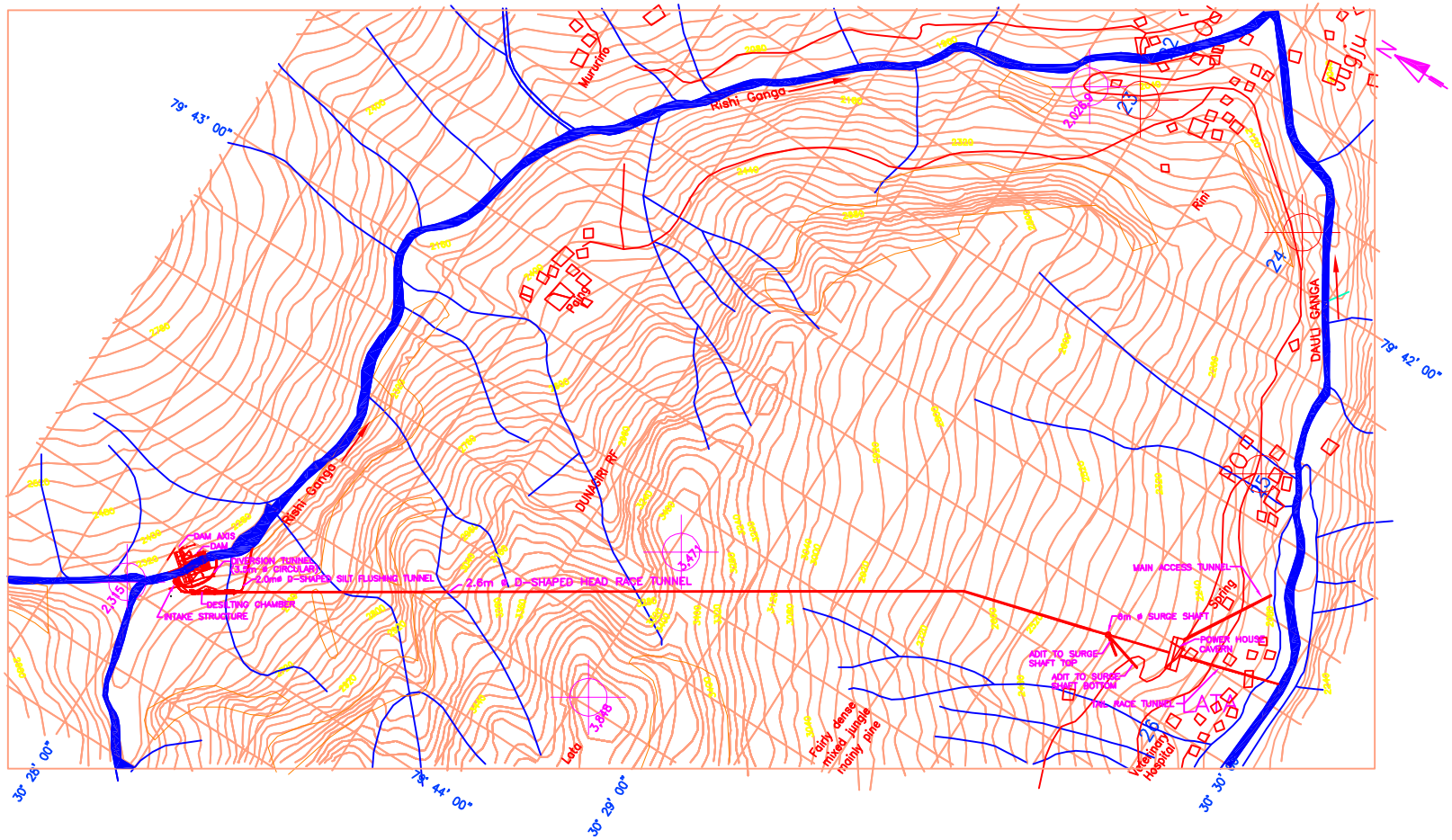
PFR STAGE DRAWING



SALIENT FEATURES

1. DIVERSION TUNNEL	
a) LENGTH	230.0m
b) DIAMETER	3.5mø
c) DESIGN DISCHARGE	25 cumecs
1. DIVERSION STRUCTURE-GRAVITY DAM	
a) FRL	EL 2306.70m
b) MDDL	EL 2303.00m
c) RIVER BED LEVEL	EL 2280.00m
d) TOP OF THE DAM	EL 2309.00m
e) No. OF BAYS	4 (11.0m X 12.7m)
f) OGEE SPILLWAY CREST	EL 2294.00m
g) DESIGN FLOOD	3270 cumecs
2. INTAKE	
a) No. OF INTAKES	01
b) CAPACITY OF INTAKE	20.80 cumecs
3. DESILTING CHAMBER	
a) No. OF CHAMBER	01
b) SIZE	140m x 8m x 11m
c) MINIMUM PARTICLE SIZE TO BE REMOVED	0.2mm
4. HEAD RACE TUNNEL	
a) LENGTH	3.24 km
b) DIAMETER	2.6mø D-SHAPED
c) DESIGN DISCHARGE	16.43 cumecs
5. SURGE SHAFT	
a) DIAMETER	6m
b) MAXIMUM SURGE LEVEL	EL 2329.00m
c) MINIMUM SURGE LEVEL	EL 2283.00m
6. PRESSURE SHAFT	
a) No.	01
b) DIAMETER	1.8m
c) INCLINATION	51°
7. POWER HOUSE	
a) TYPE	UNDERGROUND
b) INSTALLED CAPACITY	1 X 35 MW FRANCIS
c) RATED HEAD	236.96m
c) MAXIMUM TWL	EL 2060.00m
d) MINIMUM TWL	EL 2058.00m

NOTES:-

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. CONTOURS ARE BASED ON SOI TOPO SHEET No. 53 N/11 & 53 N/10(1:50000 SCALE)

CENTRAL ELECTRICITY AUTHORITY

PRE-FEASIBILITY REPORT
RISHI GANGA-II H.E. PROJECT

CONSULTANTS
WATER AND POWER CONSULTANCY SERVICES (INDIA) LTD.

LAYOUT PLAN

DRAWN BY:	DESIGN BY:	APPROVED BY:	SCALE
CHATAR SINGH			

GURGAON,HARYANA
FEB. 2004

DRG. NO. WAP/ PFR/RISHI GANGA-II/1001/R1