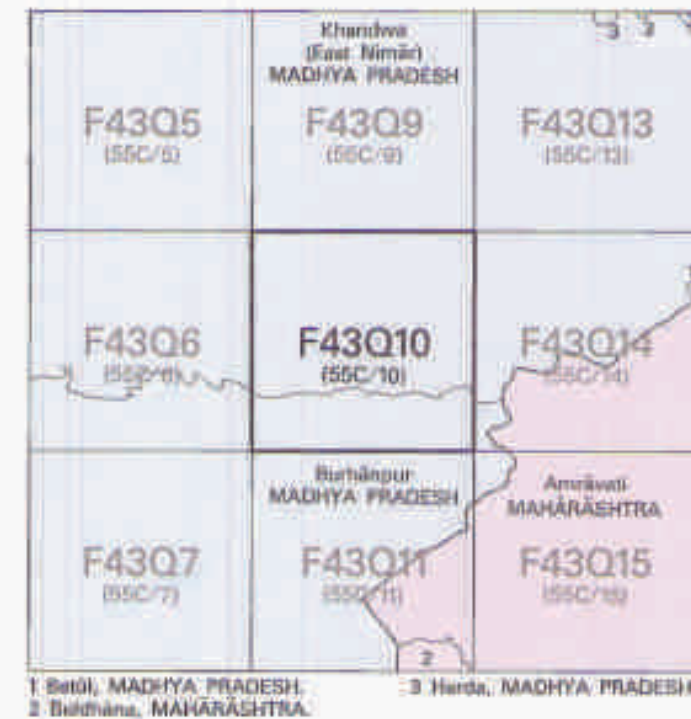




No. F43Q10

Scale 1:50,000



भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

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CONVENTIONAL SYMBOLS:

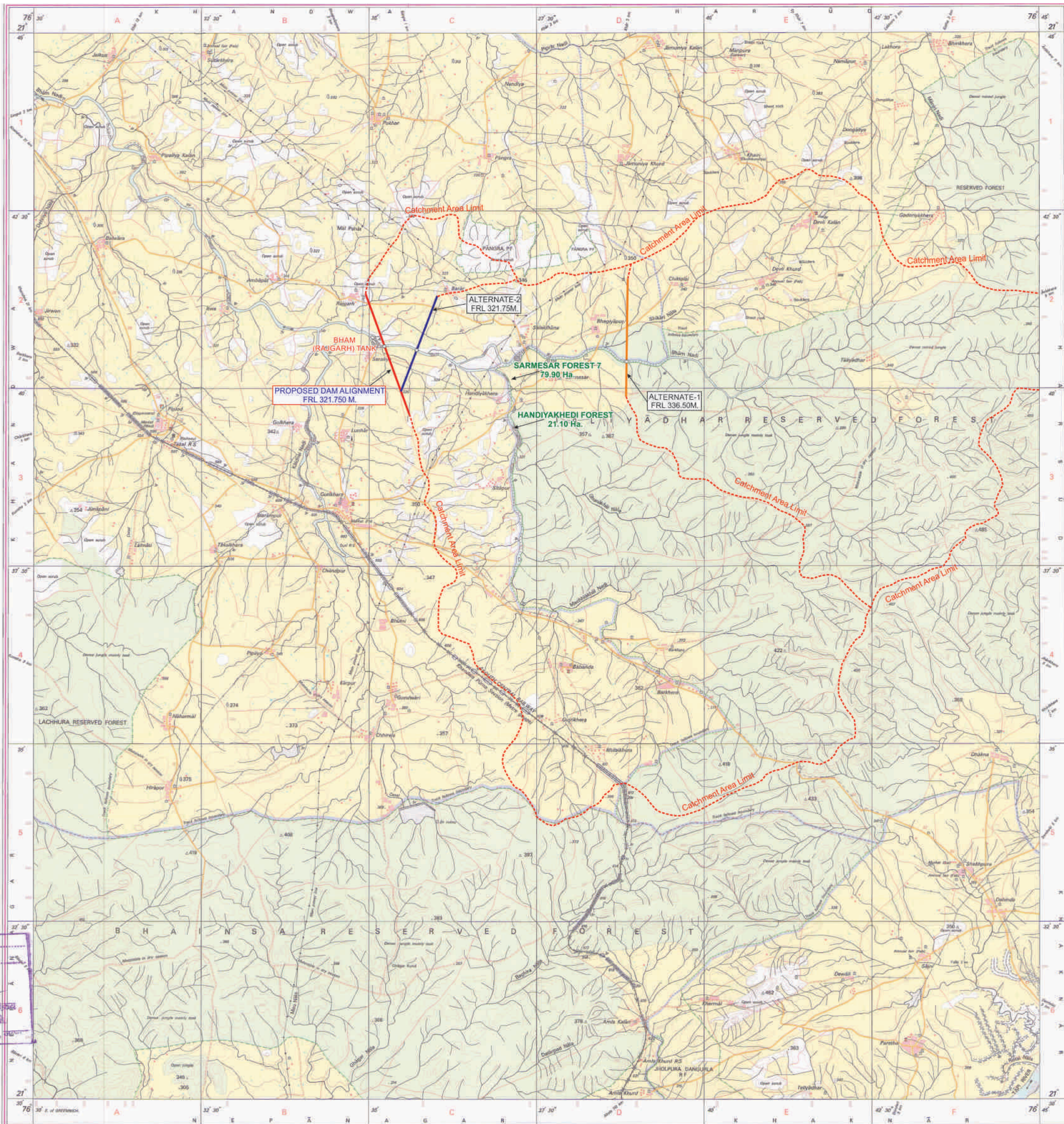
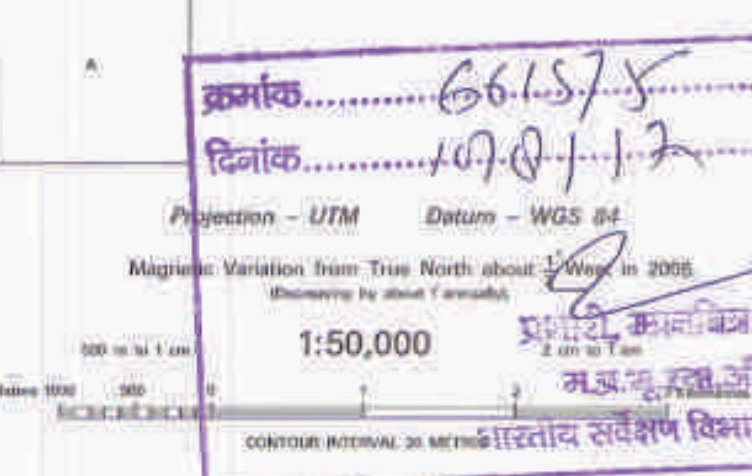


NOTES:-

1. Heights are in meters and above Indian mean sea level.
2. Contours are spot heights.
3. A dashed line with dots represents the approximate height in meters, between the top and bottom of a steep slope.

COMPILED INDEX:

A. Surveyed during 1977-78. Updated for minor details during 2004-05.



Salient Features of Alternate Dam Sites of Bham Medium Project

Particulars	Alternate - 1	Alternate - 2	Alternate - 3
General			
Name of Project	Bham (Rajgarh)	Bham (Rajgarh)	Bham (Rajgarh)
Type of the Project	Irrigation	Irrigation	Irrigation
Location	Near Bhagyapur Village	Near Semiya Village	Near Rajgarh Village
Latitude	21° 40' 26.3" N	21° 40' 32" N	21° 40' 36.4" N
Longitude	76° 38' 49.7" E	76° 35' 41" E	76° 35' 13.2" N
River Basin	Narmada	Narmada	Narmada
Located on River	Bham	Bham	Bham
Sub basin	Chhota Tawa	Chhota Tawa	Chhota Tawa
Tehsil	Khandwa	Khandwa	Khandwa
District	Khandwa	Khandwa	Khandwa
State	Madhya Pradesh	Madhya Pradesh	Madhya Pradesh
Hydrology			
Catchment Area	79.680 sqkm.	185.853 sqkm.	193.459 sqkm.
Intercepted Catchment Area	7.345 sqkm.	56.387 sqkm.	56.387 sqkm.
Net Catchment Area	72.335 sqkm.	129.466 sqkm.	137.072 sqkm.
Rain gauge Station	Khandwa	Khandwa	Khandwa
Period of Data Availability	1982-83 to 2011-12	1982-83 to 2011-12	1982-83 to 2011-12
Available Annual Yield at Dam Site 75% Dependable	12.830 Mcum.	29.916 Mcum.	31.140 Mcum.
No. of Proposed U/S Project	1 Minor Project	3 Minor Project	3 Minor Project
Planned Utilization by the U/S Projects	1.115 Mcum.	8.773 Mcum.	8.773 Mcum.
Hydrometeorologic Station	Khandwa	Khandwa	Khandwa
Design Flood	1109.55 cumecs	2588.02 cumecs	2693.93 cumecs
Estimated SPF	1.20 m.	Nil	Nil
Flood Lift			
Sediment Estimation			
Sediment Rate	476 cum/sqkm/year	476 cum/sqkm/year	476 cum/sqkm/year
Principal Levels			
Lowest Sill Level	330.15 m.	317.35 m.	315.20 m.
Full Reservoir Level	336.50 m.	321.75 m.	321.75 m.
Maximum Water Level	337.70 m.	321.75 m.	321.75 m.
Top Bund Level	339.70 m.	327.00 m.	325.50 m.
Capacity at L.S.L.	1.721 Mcum.	3.077 Mcum.	2.639 Mcum.
Capacity at F.R.L.	20.239 Mcum.	16.470 Mcum.	32.339 Mcum.
Submergence at F.R.L.	503.00 Ha.	491.87 Ha.	825.49 Ha.
Irrigation			
Net Culturable Command Area	2050.00 Ha.	2575.00 Ha.	6100.00 Ha.
Annual Irrigation Proposed	2368.00 Ha.	2975.00 Ha.	6100.00 Ha.
Domestic Water Supply			
Quantum of water made available	0.361 Mcum.	0.361 Mcum.	0.361 Mcum.
Utilization in 30 years (working table)			
Period of Study	1982-83 to 2011-12	1982-83 to 2011-12	1982-83 to 2011-12
Average annual water utilized for irrigation	10.925 Mcum.	13.631 Mcum.	22.136 Mcum.
Average annual reservoir evaporation	3.178 Mcum.	3.008 Mcum.	4.625 Mcum.
Domestic water supply	0.361 Mcum.	0.361 Mcum.	0.361 Mcum.
Average annual utilization	14.464 Mcum.	17.000 Mcum.	25.997 Mcum.
Net CCA	2050.00 Ha.	2575.00 Ha.	6100.00 Ha.
Intensity of irrigation	115.51%	115.51%	100.00%
Average delta of 30 years for proposed cropping	463.50 mm.	463.50 mm.	463.50 mm.
Dam Data			
Type of Dam	Earthen dam Zonal Section	Earthen dam Zonal Section	Earthen dam Zonal Section
Total Length of Earth Dam including Spillway	2825.00 m.	3181.00 m.	3108.00 m.
Maximum Height of Dam	15.00 m.	18.30 m.	16.50 m.
Surplusage arrangement			
Type of Weir	Un Gated Spillway	Gated Spillway	Gated Spillway
Length of Weir	115.00 m.	142.50 m.	148.00 m.
Submergence Details			
Total Submergence area	503.00 Ha.	491.87 Ha.	825.49 Ha.
Private Land			
(i) Irrigated	133.47 Ha.	335.39 Ha.	357.80 Ha.
(ii) Un Irrigated	12.51 Ha.	31.43 Ha.	278.76 Ha.
Govt. Land	34.02 Ha.	2.45 Ha.	87.93 Ha.
Forest area	323.00 Ha.	101.00 Ha.	101.00 Ha.
Forest Classification	F3	F3	F3
Village submergence	50% of Chiktalai village comes under submergence	Nil	Nil
Submergence Ratio	5.60%	11.27%	13.53%
Techno Economic feasibility	Not feasible	Not feasible	Feasible

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