

TRAINING COURSE

ON

**RESERVOIR OPERATION**

( UNDER WORLD BANK AIDED HYDROLOGY PROJECT )

Appendix

*Salient Features*

*of*

*Selected Dams*

BY

**S K Jain, NIH**  
**R K Nema, NIH**

NATIONAL INSTITUTE OF HYDROLOGY  
ROORKEE - 247 667, INDIA

**Salient Features of Selected Dams in Andhra Pradesh**

S. No.	Name of Dam	Location	Purpose	River	Area Sq km	Design Flood Cumec	Type	Storage Capacity M. Cum	Height in Meter
1	Jalapat	Visakhapatnam	Hydropower	Machkund	1955	5664	Gravity	970	61
2	Kaddam	Nimal	Irrigation	Kaddam	2590	7080	Composite	2158	43
3	Nagarjunasagar	Nandikonda	Irrigation, Hydropower	Krishna	215192	53450	Earthen	11550	125
4	Srirama Sagar	Nizamabad	Irrigation, Hydropower	Godavari	91750	45300	Masonry	3172	43
5	Lower Manair	Karim Nagar	Irrigation, Water Supply	Manair	6464	14158	Masonry	680	42
6	Donkarayi	Donkarayi	Hydropower	Sileru	5770	15593	Gravity	470	71
7	Srisaillam Project	Kurnool	Hydropower	Krishna	206242	38347	Concrete	8722	143



**Salient Features of Selected Dams in Gujarat State**

S.No	Name of Dam	Location	purpose	River	Area Sq km	Design Flood Cumec	Type	Storage capacity M. Cum	Height in meter
1	Shetrunji Irrigation Scheme	Bhavnagar	Irrigation	Shetrunji	4317	7080	Earth	415.41	38
2	Dantiwada Dam	Banaskantha	Irrigation	Banas	2862	6655	Masonry	464.45	61
3	Ukai Dam	Songadh	Irrigation Hydropower Flood Control	Tapi	62225	49490	Earth	8511	81
4	Kadana Reservoir	Panchmahals	Irrigation Hydropower	Mahi	25500	49600	Masonry	1543.253	65
5	Tapar Dam	Kutch	Water Supply	Sakra		2258	Earth	488.2	16
6	Dharoi Dam	Dharoi	Irrigation	Sabarmati	5540	27176	Masonry	907.88	46
7	Harnav Dam	Vanaj	Irrigation	Harnav	116	2140	Composite	216.7	42
8	Hathmati Dam	Fatehpur	Irrigation	Hathmati	595	2943	Earth	161.31	24
9	Guhai Dam	Khandial	Irrigation	Guhai	422.17	5787	Composite	53	24
10	Wasna Dam	Ahmedabad	Irrigation	Sabarmati	10619	21000	Barrage		21

**Salient Features of Selected Dams in Karnataka State**

S. No	Name of Dam	Location	Purpose	River	Area Sq km	Design Flood Cumec	Type	Storage Capacity M. Cum	Height in m
1	Vani Vilasa Sagar	Chitradurga	Irrigation	Vedavati	5374	991	Masonry	850.364	50
2	Krishnaraja-sagar	Krishnaraja-sagar	Irrigation Hydropower	Cauvery	10619	8213	Masonry	1368.847	43
3	Chamaraja-sagar	Bangalore	Water Supply	Arkavally	1378	1416	Masonry	94.73	49
4	Tungabhadra	Hospet	Irrigation Hydropower	Tungabhadra	27853	18408	Masonry	3767	49
5	Bhadra Reservoir	Chickmagalur	Irrigation Hydropower	Bhadra	1968	3022	Composite	2025.871	72
6	Linganamakki Dam	Shimoga	Hydropower	Sharavathy	1992	8071	Masonry	4418	61
7	Malaorabha Dam	Belgaum	Irrigation	Malaprabha	2176	5239	Masonry	1058	56
8	Hidkal Dam	Belgaum	Irrigation Water Supply	Ghataprabha	1412	4616	Composite	1449	60
9	Narayanpur Dam	Bijapur	Irrigation	Krishna	47850	37944	Masonry	1066	30
10	Almatti Dam	Bijapur	Irrigation Water Supply	Krishna	35925	31000	Masonry	6425	48
11	Hemavathy Reservoir	Hassan	Irrigation	Hemavathy	2810	4021	Gravity	1048	59
12	Supa Dam	North Kanara	Hydropower	Kalinadi	1057	5897	Gravity	4418	101



**Salient Features of Selected Dams in Kerala State**

S. No	Name of Dam	Location	Purpose	River	Area Sq km	Design Flood Cume	Type	Storage Capacity M Cum	Height in m
1	Vazahani Dam	Trichur	Irrigation	Keechery	21	249	Earth	18	36
2	Malampuzha Dam	Olavakkot	Irrigation	Malampuzha	147.6	368	Gravity	236.69	38
3	Pothundy Dam	Alayar	Irrigation	Alayar	30.82	564	Earth	523.86	32
4	Neyyar Dam	Chempilammodu	Irrigation	Neyyar	140	809	Gravity	106.079	56
5	Idukki Dam	Idukki	Hydropower Flood Control	Periyar	-	8014	Concrete Arch	1996	169
6	Kuttiyadi Dam	Calicut	Irrigation	Kuttiyadi	109	1435	Gravity	131	35
7	Parappan Dam	Quilon	Irrigation Hydropower	Kallada	549	2829	Masonry	505	85
8	Peechi Dam	Trichur	Irrigation	Karuvannur	107	368	Gravity	110	39

Salient Features of Selected Dams in Madhya Pradesh

S. No	Name of Dam	Location	Purpose	River	Area Sq km	Design Flood Cumec	Type	Storage Capacity M Cum	Height m
1	Gandhi Sagar Dam	Mandsaur	Irrigation Hydropower	Chambal	23140	21240	Masonry	7746	64
2	Tawa Dam	Hosangabad	Irrigation	Tawa	5983	30800	Masonry	2310	58
3	Barna Dam	Raisen	Irrigation	Barna	1176	13556	Masonry	539	48
4	Mahanadi Reservoir Project	Raipur	Irrigation Hydropower	Mahanadi	3670	23500	Masonry	909	32
5	Sondur Dam	Raipur	Irrigation	Sondur	512	5163	Masonry	198	38
6	Hansdeo Dam	Bilaspur	Irrigation Hydropower	Hansdeo	6737	26137	Masonry	3417	86
7	Bargi Dam	Jabalpur	Irrigation Hydropower Water Supply	Narmada	14556	51510	Masonry	4806	69



Salient Features of Selected Dams in Maharashtra State

S. No	Name of Dam	Location	Purpose	River	Area Sq km	Design Flood Cumec	Type	Storage Capacity M Cum	Height (m)
1	Bhatghar Dam	Pune	Irrigation Water Supply	Yelwandi	332	2285	Masonry	673	56
2	Koyna Dam	Satara	Hydropower	Koyna	891	7854	Gravity	2796.5	103
3	Vir Dam	Poona	Irrigation Hydropower	Nira	1756	5154	Earth	278	36
4	Mula Dam	Ahmednagar	Irrigation	Mula	2274	5947	Earth	736.32	68
5	Majalgaon Dam	Beed	Irrigation	Sindhphana	3840	15500	Earth	453.64	32
6	Paithan Dam	Aurangabad	Irrigation Hydropower Water supply Navigation	Godavari	21750	22656	Earth	2850	43
7	Kamthikhaury Dam	Nagpur	Irrigation Water Supply	Pench	4662	8400	Earth	221	44
8	Totladoh Dam	Nagpur	Hydropower	Pench	4273	12036	Gravity	1359	61
9	Isapur	Yavatmal	Irrigation	Penganga	4650	10480	Earth	1254	57
10	Dhanegaon Dam	Beed	Irrigation	Manjra	2373	6000	Earth	251.92	35
11	Ujjani Dam	Sholapur	Irrigation Hydropower	Bhima	14850	18013	Earth	3140	56

Salient Features of Selected Dams in Orissa State

S. No	Name of Dam	Location	Purpose	River	Area Sq km	Design Flood Cumec	Type	Storage Capacity M-Cum	Height in meter
1	Gohira Dam	Dhenkanal	Flood Control Hydropower	Brahmani		55500	Gravity	3220	69
2	Hirakund Dam	Sambalpur	Irrigation Flood Control Hydropower	Mahanadi	82880	35765	Composite	8105	59
3	Balimela Dam	Koraput	Irrigation Hydropower	Sileru	4910	10930	Earth	3610	75
4	Upper Indravati Project	Navrangpur Kalahandi	Irrigation Hydropower	Indravati	2630	N.A.	N.A.	2300	N.A.



**Salient Features of Selected Dams in Tamil Nadu State**

S. No	Name of Dam	Location	Purpose	River	Area Sq km	Design Flood Cumec	Type	Storage Capacity M Cum	Height in meter
1	Periyar Dam	Madurai	Irrigation Hydropower	Periyar	601	3461	Masonry	443	54
2	Mettur Dam	Salem	Irrigation Hydropower	Cauvery	42217	12905	Masonry	2707.2	70
3	Thamberaparni	Tirunelveli	Hydropower	Thambraparni	149	2549	Gravity	1558	66
4	Perunchani Dam	Nagarkoil	Irrigation	Paralayar	159.5	894	Masonry	817.9	36
5	Lower Bhavani	Mettupallayam	Irrigation	Bhavani	4200	4040	Masonry	9282.4	62
6	Manimuthar Dam	Tirunelveli	Irrigation	Manimuthar	161.6	1698	Masonry	1559.6	46
7	Amaravathi Dam	Udumalpet	Irrigation	Amaravathi	839	4019	Earth	1145.3	50
8	Sathanur Dam	Thiruvannamalai	Irrigation	Ponnaiyar	10826	5660	Masonry	229	45
9	Vaigai Dam	Madurai	Irrigation	Vaigai	2253	1779	Masonry	1946.5	34
10	Kundapalam	Nilgiris	Hydropower	Kundah	113.9	1557	Gravity	155.65	32
11	Aliyar Dam	Coimbatore	Irrigation	Aliyar	196	1160	Masonry	1094	44
12	Parambikulam	Coimbatore	Irrigation	Parambikulam	228.4	1686	Masonry	5043.1	73
13	Sholayar Dam	Coimbatore	Irrigation Hydropower	Sholayar	121.8	1474	Masonry	1606.6	105
14	Parappalar Dam	Palani	Irrigation	Parappalar	72.88	741	Gravity	560	32
15	Gatana Dam	Tirunelveli	Irrigation	Gatananadi	46.46	758	Earth	996	49

