

TECHNICAL REPORT

Name of work :- Construction of Right Main Canal and Minor including CD works of Ahmadi minor Irrigation Project Tehsil-Kishanganj, Distt. Baran.

An estimate amounting to Rs. 265.65 lakh has been framed to cover the probable cost of Construction of Right Main Canal and Minor including CD works of Ahmadi minor Irrigation Project Tehsil-Kishanganj, Distt. Baran.

1. Introduction & General

The tenders for the work of Dam was done in the year 2007 but the work was not started due to objection of Forest in the submergence. Again in May 2015 the work was started after received the final NOC from MOEF Govt. of India. Now the work of Dam is complete and the process for the compensation of land coming in alignment of canals is reached upto approval of section 21. Ahmadi Dam of Ahmadi MIP is situated on a local Nallah, near village Ahmadi in Tehsil-Kishanganj, Distt.-Baran. It is proposed to utilize the irrigation land of Ahmada, Ahmadi, Pitampura, Khayawada & Bajrangarh villages in Tehsil-Kishanganj, Distt.-Baran. The Dam is having 2 nos. sluices for LMC & RMC off taking from ch. 35 & 73 of the Dam respectively.

RMC canal off take from ch. 73 of Dam. The land of Ahmada, Ahmadi, Khayawada & Pitampura village land will be irrigate by RMC & its minor.

Main features of canals and works proposed

1. RMC

The total length of RMC is 4800 m and provision of PCC block lining have been taken and structures as RCC HUME Pipe from RD 300 to 450 m, Pipe syphon, VRB, 15 m water course with pipe outlet and provision of Sprinkler Irrigation in area 91.92 Ha have been taken in the estimate. The details are attached in the Estimate.

2. Minor

The minor off take form RMC is having total length of 1950 m, and provision of PCC block lining have been taken and structures as VRB, Fall & 15 m water course with pipe outlet provision have been taken in the estimate.

The items proposed for construction the canals & minor including CD works are E/w excavation, CNS, CC 1:3:6/M-10, CC 1:2:4/M-15, PCC block lining, RR stone masonry in cm (1:6) for foundation/superstructure, CR stone Kharanja masonry in cm (1:4), Plaster (1:4), F/R pointing in cm (1:3), earthen embankment compaction by plain roller/ sheepfoot roller to obtain 95% density in canal embankment with watering, reinforcement in VRB slab.

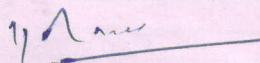
As per the Revised Administrative and financial sanction received vide no F-3(12)/AS/cell/96/XII/3283 Dated 21.12.2011 for Rs 2892.65 Lacs. The cost of canal works was Rs 106.00 Lacs which has now increased to Rs 374.54 Lacs including LMC as technical estimate amounting to Rs. 108.89 has been prepared which is mainly due to change of BSR from 2011 to 2014, inclusion of estimate of minor which was left in the previous estimate, extension of length of RMC as per directions of Honble CM during her visit to Jhalawar as per demand of villagers of Bajranggarh village, RCC HUME Pipe in place of Syphon at RD 300 to 450 of RMC and additional due to Sprinkler Irrigation in area 91.92 Ha.

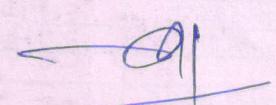
3rd Revised Administrative and financial Estimate amounting to Rs 2416.59 without NPV & Rs 3910.77 with NPV has been submitted to approval.

This Estimate has been prepared based on **Water Resources Circle Baran BSR of year 2014**. And it is **Chargeable to:-**

4702 Ahmadi MIP

An early sanction to the estimate is solicited please


Assistant Engineer
Water Resources Sub Dn,-III
Bhanwargarh


Executive Engineer
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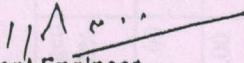
AHMEDI MINOR IRRIGATION PROJECT

Name of Work:- Construction of Right Main Canal and Minor
Including CD Works of Ahmadi MIP, Tehsil-Kishanganj, Distt.-
Baran.

TECHNICAL DATA

S.No.	Particulars	As per sanctioned DPR	As per Estimate
A	Location		
1	1-State	Rajasthan	Rajasthan
2	2-District	Baran	Baran
3	3-Tehsil	Kishanganj	Kishanganj
4	4-Longitude	'Lon. 76°-43'	Lon. 76°-43'
5	5-Latitude	Lon.24°-58'	Lon.24°-58'
B	Main Dam		
	1. Catchment Area	25.40 Sqkm	25.40 Sqkm
	2. Free Catchment Area	25.40 "	25.40 "
	3. Typs of Catchments	Average	Average
	4. Gross storage capacity	4.10 Mcum.	4.10 Mcum.
	5. Dead storage capacity	0.63 Mcum	0.63 Mcum
	6. Live storage capacity	3.48 Mcum	3.48 Mcum
	7. Sluice sill RL	304.34 Mt.	304.34 Mt.
	8. F.T.L. RL	307.14 Mt.	307.14 Mt.
	9. M.W.L. RL	308.06 Mt.	308.06 Mt.
	10. T.B.L. RL	309.58 Mt.	309.58 Mt.
	11. Maximum Flood Discharge	401.89 Cumecs	401.89 Cumecs
	12. Total Length of Dam Ch. 9.50 to 86.30	2340.86 Mt.	2340.86 Mt.
	13. Length of Earthen Dam Ch. 9.50 to 77.50	2072.64 Mt.	2072.64 Mt.
	14. Length of overflow portion	268.22 Mt.	268.22 Mt.
	15. Flood Lift	0.92 Mt.	0.92 Mt.
	16. Top width of Dam	4.50 Mt.	4.50 Mt.
	17. submergence Area at F.T.L.	2.0918 M.Sqm.	2.0918 M.Sqm.
C	Canals		
	L.M.C.		
	1. Sluice sill level RL	304.34 M.	304.34 M.
	2. Size of Sluice Gate	0.91x0.60 M.	0.91x0.60 M.
	3. Design discharge at head	0.27 Cumecs	0.2831 Cumecs
	4. G.C.A.	365.20 Hect.	365.20 Hect.
	5. C.C.A.	262.40 Hect.	262.40 Hect.
	6. I.C.A.	183.60 Hect.	183.68 Hect.
	7. Length of Canal	4115 M.	3900 m
	R.M.C.		
	1. Sluice sill level RL	304.34 M.	304.34 M.
	2. Size of Sluice Gate	0.91x0.60 M.	0.91x0.60 M.
	3. Design discharge at head	0.386 Cumecs	0.4139 Cumecs
	4. G.C.A.	565.60 Hect.	657.84 Hect.
	5. C.C.A.	372.40 Hect.	464.32 Hect.
	6. I.C.A.	260.40 Hect.	325.02 Hect.
	7. Length of Canal	4115 M.	4800 m
	Minor of RMC		
	1. Design discharge at head		0.2496 Cumecs
	2. G.C.A.		331.60 Hect.
	3. C.C.A.		240.40 Hect.
	4. I.C.A.		168.28 Hect.
	5. Length of Canal		1950 m

S.No.	Particulars	As per sanctioned DPR	As per Estimate
D	GENERAL		
1	Total G.C.A.	930.80 Hect.	1023.04 Hect.
2	Total C.C.A.	634.80 Hect.	726.72 Hect.
3	Total I.C.A.	444.00 Hect.	508.70 Hect.


 Assistant Engineer
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 Bhanwargarh


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