

## AHMEDI MINOR IRRIGATION PROJECT

Name of Work:- Construction of Left, 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 |
|----------|---|-----------------------|-----------------|
| <b>A</b> | <b>Location</b>                             |                       |                 |
| 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>B</b> | <b>Main Dam</b>                             |                       |                 |
|          | 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 Earthan 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.   |
| <b>C</b> | <b>Canals</b>                               |                       |                 |
|          | <b>L.M.C.</b>                               |                       |                 |
|          | 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          |
|          | <b>R.M.C.</b>                               |                       |                 |
|          | 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          |
|          | <b>Minor of RMC</b>                         |                       |                 |
|          | 1. Design discharge at head                 |                       | 0.2496 Cumecs   |
|          | 2. G.C.A.                                   |                       | 331.60 Hect.    |
|          | 3. C.C.A.                                   |                       | 240.40 Hect.    |

# TECHNICAL REPORT

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

An estimate amounting to Rs. 293.23 lakh has been framed to cover the probable cost of **Construction of Left, 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 11&12 . Ahmadi Dam of Ahmadi MIP is situated on a local Nallah, near village Ahamadi in tehsil-Kishanganj, Distt.-Baran. It is proposed to utilized 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.

LMC canal off take from ch. 35 & RMC canal off take from ch. 73 of Dam. The land of Ahmada, Pitampura villages will be irrigate by LMC and Ahmada, Ahmadi, Khayawada&Pitampura village land will be irrigate by RMC &its minor.

## Main features of canals and works proposed

### 1. LMC

The total length of LMC is 3900m and provision of PCC block lining have been taken with chute and structures as pipe Syphon, VRB & 15 m water course with pipe outlet provision have been taken in the estimate. The details are attached in the Estimate.

### 2. RMC

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

**3. 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.

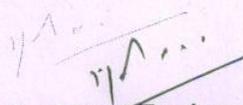
The items proposed for construction the canals & minor including CD works are E/w excavation, CNS, CC 1:3:6/M-10, CC 1:2:4/M-15, PCC block lining, RR stone masonry in cm (1:6) for foundation/superstructure, CR stone Kharanja masonry in cm (1:4), Plaster (1:4), F/R pointing in cm (1:3), earthen embankment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

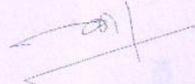
As per the Revised Administrative and financial sanction received vide no F-3(12)/AS/cell/96/XII/3283 Dated 21.12.2011for Rs 2892.65 Lacs. The cost of canal works was Rs106.00 Lacs which has now increased to Rs 293.23 Lacs which is mainly due to change of BSR from 2011 to 2014, inclusion of estimate 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.

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

**4702 Ahmadi MIP**

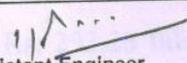
An early Sanction tothe estimate is solicited please

  
**Assistant Engineer**  
**Water Resources Sub Dn,-III**  
**Bhanwargarh**

  
**Executive Engineer**  
**Water Resources Dn,-III**  
**Baran**

# TECHNICAL REPORT

| S.No.    | Particulars        | As per sanctioned DPR | As per Estimate |
|----------|--------------------|-----------------------|-----------------|
|          | 4. I.C.A.          |                       | 168.28 Hect.    |
|          | 5. Length of Canal |                       | 1950 m          |
| <b>D</b> | <b>GENERAL</b>     |                       |                 |
| 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  
 Water Resources Sub Division-III  
 Bhanwargarh

Executive Engineer  
 Water Resources Division-III  
 Baran

## 1. Introduction & General

The orders for the work of Dam was done in the year 2007 but the work was not completed due to objection of Forest in the submerged area. Again in May 2015 the work was resumed 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 in progress. Approval of section 11&12 - Ahmeda Dam of Ahmeda MIP is situated on a right bank of river village Ahmeda in Tehsil-Kishanganj, Distt-Baran. It is proposed to irrigate the irrigator land of Ahmeda, Ahmeda, Phansara, Khaywada & Bejanganj village 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.

LMC canal off take from ch. 35 & RMC canal off take from ch. 73 of Dam. The land of Ahmeda, Phansara village will be irrigate by LMC and Ahmeda, Ahmeda, Khaywada & Bejanganj village land will be irrigate by RMC & its minor.

## 2. Main features of canals and works proposed

### 2.1 LMC

The total length of LMC is 3900m and provision of PCC block lining have been made with chain and structures on pipe support. 1.50 m water course with pipe outlet provision have been made in the estimate. The details are attached in the Estimate.

### 2.2 RMC