

## **Detailed note on status of appraisal of Amreng Medium Irrigation Project**

### **Background:**

An Agreement for Consultancy Services for preparation of Feasibility Report of Amreng Irrigation Project was executed between WAPCOS, MoWR, RD & GR (an undertaking of Govt. of India) and KAAC, Assam on 17<sup>th</sup> January, 1997. In its feasibility Report/proposal of WAPCOS submitted in 1999, the project was planned as a run of the river scheme or diversion scheme. The spillway was proposed as a solid concrete gravity uncontrolled spillway with sloping apron. No gates were proposed to be provided over the spillway. Based on the inputs given by WAPCOS, a DPR was prepared by Irrigation Department, Karbi Anglong, Government of Assam and after due consideration KAAC accorded administrative approval for the project vide Letter No. KAAC/IRRI/98-99/51/200 (A) dated 04/02/99. In the year 1999 State Govt. of Assam placed about Rs. 50.00 Lakh in State Plan under KAAC for implementation of Amreng Irrigation Project and works of project started. The proposal with estimated cost of Rs 61.54 Crore (P.L. 2000-01) was submitted to Planning Commission and Ministry of DoNER for grant of financial Assistance under **Non-Lapsable Central Pool of Resources (NLCPR)**. The WR division of Planning Commission recommended 'Amreng Irrigation Project' in Karbi Anglong District (Medium)' with estimated cost of **Rs. 61.54 crore** for funding under Non-Lapsable Central Pool of Resources (NLCPR) vide their letter No. 12(10)99-WRVol.IV dated 20/03/2001. Subsequently, the erstwhile Planning Commission and Ministry of DoNER released Rs. 12.00 Crore under NLCPR in three instalments for implementation of the project. State Govt. of Assam also provided total about Rs. 4.50 crore for the project under State Plan.

### **I. Original Project Proposal (Estimated Cost: Rs. 61.54 Cr.)**

Originally the project envisaged tapping of water from river Amreng by constructing a trough type weir to divert design discharge of 8 cumecs into the main canal for irrigating a **CCA of 6800 Ha**. The main components of the project as originally proposed were as under:

- a) A Trough Type Weir of length 80.00 m at Bed level of 102.50 m at Sansika to divert a design discharge of 8.00 cumec to the main canal.
- b) The head regulator is located on the left bank of Amreng river with a design capacity of 8.00 cumecs.
- c) The canal system consists of main canal of length 24.00 Km. along with 7 Nos. distributaries, 7 Nos. minors and 7 Nos. sub-minors, the total canal length including that main canal being 79.50 Km. The main canal for a length of 5.00 Km. was proposed to be lined and the rest were to be earthen canals.
- d) The necessary bridges, culverts, fall, cross drainage works etc as per site requirement.

With the financial assistance of Rs 12.00 Cr. from NLCPR and Rs 4.50 Crore from Govt. of Assam, following works of the project were executed upto 2004.

| Sl. No | Name of works executed upto 2004                                | Expenditure (Rs in Lakhs) |
|--------|---|---------------------------|
|        | Survey of Command Area  | 60.00                     |
|        | Construction of off-take Head Regulator                         | 356.40                    |
|        | Approach Road   | 50.00                     |
|        | Construction of main canal Ch 70 M to Ch 1270 M with Rocky mass | 492.41                    |
|        | Construction of Main Canal Ch 1270 to Ch 6000 M                 | 390.50                    |
|        | C.C fall (1 No)   | 49.05                     |
|        | Cross Drainage Works (14 nos)                                   | 73.33                     |
|        | Inlet Structure for tapping natural streams (3 nos )            | 10.02                     |
|        | RCC Slab Culvert (7 Nos)  | 84.07                     |
|        | Building with fencing   | 67.00                     |
|        | Plantation  | 2.00                      |
|        | Jungle clearance  | 7.69                      |
|        | Maintenance during execution                                    | 10.00                     |
|        | Total:  | 1652.47                   |

After gap of five years, the DPR of the Amreng Medium Irrigation Project having the same components with 1<sup>st</sup> revised estimated cost of **Rs. 96.9665 Cr (PL: 2008-09)** was submitted to M&A, CWC, Guwahati in 2009. The various observations of the CWC (HQ)/Field units on chapter of Hydrology, Irrigation Planning, ISM matter, International issues, Design components etc were communicated to the project authorities on the same from time to time during 2009 to 2016. *The in principle approval by Hydrology (NE) Dte, Irrigation Planning (S) Dte, ISM Dte and B&B wing, MoWR, RD&GR for Hydrology, Irrigation Planning, Inter State Matter and International issues respectively were accorded during that period for planning of Amreng Medium Irrigation Project as mentioned above.*

The major observations of the Barrage & Canal Design (E&NE) Dte., CWC vide No. 227/1/2013-BCD (E&NE)/304-306 dated 19.08.2016; SE (C), CWC, Shillong vide No. 2(5)/2016-BBB/Amreng/3155-56 dated 23.08.2016 were communicated to project authorities. Meanwhile as the reply/compliance to the comments/ observation communicated were not submitted by the project authorities within prescribed time limit (within 03 months) as per CWC's Guidelines for "Submission, Appraisal and Acceptance of Irrigation and Multipurpose Projects, 2017", **the project was deleted from the appraisal list of CWC vide this office letter dated 05.04.2017.**

No communication was made by the project authorities since 2016 till March, 2019.

## **II. Status on present project proposal (Estimated cost: RS. 1045.0398cr. (PL: 2015-16) submitted in March, 2019.**

Amreng Irrigation Project is proposed across river Amreng, a tributary of Brahmaputra near village- Sansika, Sub division-Hameran, Dist- Amreng in Assam. The Amreng Irrigation Project envisages the construction of following works:

- I. A construction of 79 m long Concrete Barrage across river Amreng having 12 Nos. gates of size 15 X 4.5 m. at Bed level of 103.00 m at Sansika village to divert a design discharge of 15.00 Cumec to the main canal.
- II. The head regulator is located on the left bank of Amreng River with a design capacity of 15.00 cumecs.
- III. The canal system consists of main canal of length 24.00 Km. along with 7 Nos. distributaries, 7 Nos. minors and 7 Nos. sub-minors, the total canal length including that main canal being 62 Km. The main canal for a total length of 24.00 Km. is proposed to be lined and the rest were to be earthen canals.
- IV. The necessary bridges, culverts, fall, cross drainage works etc as per site requirement.

The DPR of the scheme was examined as per CWC Guidelines for “Submission, Appraisal & Clearance/Acceptance of Irrigation & Multipurpose Projects, 2010 & 2017” and observations of this office on each aspect such as chapter of Irrigation Planning, Cost & Design of Canal & Barrage of the project were communicated to the project authority on 30.09.2019. The hydrology chapter was finalised and communicated to the project authority on 30.09.2019.

Director & Deputy Director of M&A, Dte., CWC Guwahati also visited the proposed location of Amreng Medium Irrigation Project on 04.11.2019.

Compliance on Irrigation Planning Chapter have been received from project authorities vide letter dated 27.11.2019. Appraised/ Finalized Irrigation Planning Chapter has been sent to Project Authorities vide this office letter dated 26.12.2019.

Compliance to the Canal design chapter of the DPR was submitted to this office vide letter dated 04.01.2020. Finalised detailed Design of Canal System has been communicated to Project authorities vide this office letter dated 31/01/2020.

Compliance to Barrage Design Chapter of DPR was submitted on 03.03.2020. Appraisal/ Approval of Barrage Design Aspect has been received from BCD(E&NE) Dte., CWC New Delhi vide letter dated NIL

Compliance to Gates Design Aspect of the Project was submitted on 14.07.2020. With preliminary observations, the design has been sent to Gates Design (E & NE) Directorate, CWC, New Delhi on 04.09.2020. Comments of CWC (HQ) are yet to be received.

Compliance to Cost Estimate Aspect has been submitted by project authority on 12.08.2020. Observations/ Comments on the same have been communicated to the project authority on 21.09.2020.

With repetitive reminders for early compliance of the observations, a meeting was also held between officers of CWC & KAAC on 07.10.2020