

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन
नदी विकास और गंगा संरक्षण विभाग
केंद्रीय जल आयोग
मुख्य अभियंता कार्यालय
ब्रह्मपुत्र एवं बराक बेसिन संगठन



BY FAX/E-MAIL
GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI
DEPARTMENT OF WATER RESOURCES
RIVER DEVELOPMENT & GANGA REJUVENATION
CENTRAL WATER COMMISSION
OFFICE OF THE CHIEF ENGINEER
BRAHMAPUTRA & BARAK BASIN ORGANISATION

No. 2(5)/2016-BBB/Amreng/6063-66

Dated 05.12.2019

To

Director,
Project Appraisal (North) Directorate,
Central Water Commission,
7th Floor (South), Sewa Bhawan,
R.K. Puram, New Delhi,

Sub: Note received from O/o Hon'ble Minister for Jal Shakti – Submission of detailed report on Amreng Irrigation Project – reg.

Sir,

In inviting reference to your letter no. Assam/2/2014-PA(N)/1690-92 dated 4th December, 2019, please find enclosed herewith the detailed report on Amreng Medium Irrigation Project, KAAC, Assam.

This issues with the approval of Chief Engineer, B&BBO, CWC, Shillong.

Encl: As above.

Yours faithfully

(Rakesh Kumar)
Superintending Engineer (C)

Copy for kind information to:

1. Director, WP&PC, CWC, New Delhi.
2. Director, TC, CWC, New Delhi.
3. Director (M&A), CWC, Guwahati. He may immediately pro-actively pursue the compliance on observations regarding Designs & Cost with Additional Chief Engineer (Irrigation), KAAC and not simply wait for matters to come on their own course. Further, the examination of irrigation planning aspects which began by M&A Directorate on 27.11.2019 should be completed today itself.

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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 17th 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-WR Vol. 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 1st 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.

The compliance to the observation on irrigation planning has been received in this office from project authority on 27.11.2019 and is under examination.

The compliance on other aspects i.e Cost estimate, Design of Barrage, Canal & Gate is yet to be received in this office.

Ravi Ranjan