

I/44225/2021

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन नदी विकास एवं गंगा संरक्षण
विभाग
केंद्रीय जल आयोग
लागत मूल्यांकन) सिंचाई-2 निदेशालय



Government of India
Ministry of Jal Shakti
Dept. of water Resources, RD & GR
Central Water Commission
Cost Appraisal(Irrigation)-2
Directorate

Sub: - Comprehensive Project Report of Ken-Betwa Link project- Examination of Cost Estimate of “Bina Complex Irrigation and Multipurpose Project” (Part of Ken Betwa Link Project Phase-II) – regarding.

- Ref- 1. CWC Lr. No. 4/11/2019/NP-II/Vol-I/3040-51 dated:16.08.2019
2. Reply to CWC Lr. No. 10/10/2010/CA(I)/1161-62 dated 17.08.2017
3. CWC Reminder Lr. No. 10-A/43/2019/CA(I)-2/268-269 dated 24.12.2019
4. MPWRD Lr. No. 221/TS/CWC/BINA/2020/ dated 12.10.2020

The Cost Estimate of Comprehensive Project Report of Ken-Betwa Link Project for an amount of Rs.35111.24 Cr. at PL 2017-18 was received vide letter under reference (1) for examination of Cost aspects. In this Report, the Cost Estimate of “Bina Complex Irrigation and Multipurpose Project” (Part of Ken-Betwa link Project Phase-II) amounting Rs.4318.88 Cr. has also been submitted. Vide letter at reference 4, the Project Authorities have submitted compliance to the letter at reference (2) and the cost estimate of the project has been changed to 4579.58 crores. The discussion on the Cost Estimate of Kotha Barrage and Lower Orr Project has been held with NWDA officials on 22.12.2020 regarding the compliance to comments submitted on all the three components. The compliance submitted by the project Authority vide letter under reference (4) has been examined and further comments are as under-

General Comments

1. The status of clearance of the project from other Directorates of CWC/other Central Agencies may be indicated.
2. For calculation of the cost of B-Land, factors of 2.5, 3.0 and 4.0 have been taken on rates as per Collector Guidelines in case of Kotha Barrage, Bina and Lower Orr Projects. The rates may be adopted uniformly for all the three Projects under Ken Betwa Phase II.
3. The rates adopted using MPRRDA SOR 2017 may be updated as per latest SOR available (MPRRDA SOR 2019 or latest) and a copy of the same may be provided for checking of estimates of approach roads used in Unit II (Canals) and Unit III (Power House). Further a copy of PWD Building SOR may be provide for checking of estimates of various items under Unit III(Power House).

Unit-I :-

Abstract

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1. The Corporate Environment Responsibility (CER) mentioned under Indirect Charges (Page 4) and in Annexure I –Abstract of Cost (Page 6) may be taken as 0.5 % of the project cost as per MoEF OM dated 01.05.2018.
2. As per Clause 18.10 of CWC Guidelines for Preparation of DPR of Multipurpose Projects, the recoveries on account of temporary buildings is kept generally at 15 % of the cost. The reason for keeping no provision under V- Receipts and Recoveries by way of transfer/rent of temporary buildings may be indicated.

B – Land

1. The rate in lakhs per km adopted for construction road (Rs 1042 lakhs per km) (page 16 and 17) may be justified by way of sub estimate or rates certified by local/state PWD Authorities.

C-Works

1. The PWD SOR adopted for item at Sl No 10 (Page 34) may be provided.
2. The rates mentioned against items at Sl No 16 (i) (0 to 10 degrees vertically downwards) (page 26) Sl No 23(x) (Page 27) and Sl No 5 (Page 64) may be corrected as per MPPWD Unified Schedule of Rates.

M-Plantation

1. The approved cost of plantation should be taken from State Forest/ Horticulture Department and accordingly the cost entailed may be worked out. The protection and look after plants work may be kept 2 to 3 years as per CWC guidelines.

X- Environment and Ecology

1. A copy of approved EMP plan may be provided to this office.

Unit-II:-**D - Regulators**

1. The PWD SOR adopted for item at Sl No 5 and 7 (Page 89) may be indicated.

G-Bridges

1. The reference PWD SOR (i.e. MPWRD USR 2017) adopted in the calculation of Abstract for Bridges (Page 92-94 and Page 113-116) may be corrected. Also the PWD SOR year used in calculation of Nalla crossing may be corrected.

L- Earthwork

1. As per CWC Guidelines, this head generally contains provision for excavation and lining work only. The provision of transmission line (L1) (Refer General Abstract of Unit II Canals Page 84) may be shifted to S-Power Plant and Electrical System while that of Pump House (L2) and Rising Mains (L3) and some other related components of L4 may be shifted to C- Works.

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1. A copy of PWD Building SOR may be provide for checking of estimates of various items under Unit III (Power House).
2. The estimates under this Unit may be bifurcated into two subheads i.e.- J- Power Plant Civil Works and S-Power Plant and Electrical System.
3. Further no sub estimate or supporting document has been provided for (2) Equipment Component for the power Houses. The same may please be provided.

Other observations on the Cost Estimate would be communicated during further examination of the estimate. Further, official(s) from NWDA well conversant with Cost Estimate may be requested to attend this office with necessary documents for finalisation of the cost estimate.

(Ashok K. Jeph)
Director

Director, National Projects Directorate, CWC, New Delhi.