



By Email

क्रमांक:-के.बे.लि.परि.प्राधि./खण्ड/झांसी/टी-30(TAG)/ 408-29  
No:-KBLPA/Div./JHANSI/T-30(TAG/

दिनांक: 15-5-25  
Date:

**Sub:- Minutes of 11<sup>th</sup> Meeting of Technical Advisory Group of Ken-Betwa Link Project Authority**

The 11<sup>th</sup> meeting of the Technical Advisory Group of Ken-Betwa Link Project Authority (TAG-KBLPA) was held on 09.05.2025 & 10.05.2025 at Jhansi under the chairmanship of Shri D.P. Bhargava, Former Director (Technical), NHPC, Faridabad.

Minutes of the meeting, duly approved by the Chairman (TAG-KBLPA) is enclosed for kind information and further necessary action by all concerned.

(T. M. Tripathi)

ACEO (Canal) &  
Member-Secretary

**To: All the Members of TAG of KBLPA**

1. Shri D.P. Bhargava, Former Director (Technical), NHPC, Faridabad.
2. Shri Vijai Saran Former Chief Engineer, CWC.
3. Shri P.K. Saxena, Former Commissioner (Indus), DoWR, RD&GR.
4. Shri V.K. Niranjana, Former HOD & E-in-C, I&WRD, UP.
5. Shri G.P. Soni, Former Chief Engineer, WRD, MP.
6. Chief Engineer, Designs (NW&S), CWC, New Delhi.
7. Director (CSMRS), New Delhi.
8. Director, Hydrology-Central, CWC, New Delhi.
9. Additional CEO (Head Works), KBLPA, Bhopal.
10. Additional CEO (HQ/P), KBLPA, Lucknow.
11. Additional CEO (E&M), KBLPA, Bhopal.
12. Chief Engineer, Design/BODHI, WRD, MP.
13. Chief Engineer, Design /ACEO(Design & Planning), KBLP, UP.

**Copy for kind information:-**

1. The Additional Chief Secretary, WRD, Govt. of MP, Bhopal
2. The Principal Secretary, I&WRD, Govt. of UP, Lucknow
3. The Member, D&R, CWC, New Delhi.

**Special Invitee:-**

1. Chief Executive Officer, KBLPA, Bhopal.
2. Director General, NWDA, New Delhi
3. Engineer-in-Chief, WRD, Govt. of MP, Bhopal.
4. Engineer-in-Chief (Projects), I&WRD, Govt. of UP, Lucknow.
5. ACEO (Construction), KBLP, I&WRD, Jhansi.
6. Experts from CWC in Gates, Canal & Stone Masonary/ Weir, CWC, New Delhi.

**Minutes of 11<sup>th</sup> Meeting of Technical Advisory Group of Ken-Betwa Link Project Authority held on 09.05.2025 & 10.05.2025 at Jhansi**

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The 11<sup>th</sup> meeting of the Technical Advisory Group of Ken-Betwa Link Project Authority (TAG-KBLPA) was held on 09.05.2025 & 10.05.2025 at Jhansi under the Chairmanship of Shri D. P. Bhargava, Former Director (Technical), NHPC, Faridabad for discussion on the various components of the Ken-Betwa Link Project. The list of participants is attached as Annexure-I.

At the outset, Chairman welcomed the participant. The details of deliberation on agenda items and compliance on agenda items/ issues and points agreed upon are as under:

**11.1 Alignment of Ken-Betwa Link Canal passing through the Bansujara Micro-Irrigation Command Area.**

1. The ACEO (Canals), KBLPA appraised the TAG-KBLPA about the decisions taken during the review meeting on the Ken-Betwa Link Project, held on 23.04.2025 at New Delhi under the Chairmanship of the Joint Secretary (RD&PP), DoWR, RD&GR.
2. The ACEO (Canals) informed the TAG that the following deliberations took place during the meeting held on 23.04.2025:
  - i. WRD, MP raised an issue regarding the link canal alignment between RD. 108000m to RD. 170000m, passing through the existing command of Bansujara Micro irrigation project. After in depth discussion, it was considered appropriate that the alignment of Link Canal should not be changed in such a large stretch. WRD, MP suggested that other option is to make necessary arrangement by way of modification in the existing Bansujara Micro irrigation project. After detailed discussion, it was considered appropriate that the DPR/ Technical interventions required in resolution of the issue, shall be taken up by the KBLPA. All the data needed will be provided by WRD, MP and the cost etc. shall also be borne by WRD, MP itself.
  - ii. A joint site visit by KBLPA, NWDA, WRD-MP, and I&WRD-UP will be conducted to address the alignment and outfall issues, with KBLPA leading as the executing agency.
  - iii. KBLPA shall upload the alignment in the PM Gati Shakti Portal. Review of alignment of Link Canal by TAG and vetting of proposal from CWC may also be taken up at the earliest.
- 3 (i) The alignment of the Ken-Betwa Link Canal passing through the Bansujara Micro Irrigation Command Area was presented before the Technical Advisory Group (TAG). The WRD, MP further informed that the pipes have been laid about 1.2 meter below the ground level in the command area of Bansujara. Option of taking the water through 32 km long alternate alignment through pipes was also brought up. However, the TAG members noted that similar proposal had already been examined and not accepted by the CWC vide letter dated 03.04.2021(enclosed) on technical grounds and TAG therefore did not consider proposal of alternate alignment in this reach.
  - (ii) To verify the facts on ground, the TAG, along with officials from WRD, MP and I&WRD, UP, visited the site of the Ken-Betwa Link alignment at RD 160 km, where it crosses with the

Bansujara Micro-Irrigation Project. After the visit and deliberations, the TAG agreed with the decisions taken on 23.04.2025 that the alignment of Link Canal should remained unchanged and appropriate provisions be made to safeguard the existing underground pipelines of the Bansujara Micro-Irrigation Project.

4. The TAG further advised submission of the following data related to the crossings of Bansujara Micro Irrigation Project with the Link Canal.
  - i. Type, diameter and specification of the pipelines crossing canal alignment in this area.
  - ii. Coordinates of the locations and elevation where Bansujara pipelines cross the Ken-Betwa Link Canal alignment.

TAG advised WRD, Madhya Pradesh to provide the above data latest by 20.05.2025 to KBLPA.

### 11.2 Alternate Alignment Proposal Submitted by WRD, MP.

WRD, Madhya Pradesh presented an alternate alignment proposal for the Ken-Betwa Link Canal (KBLC) which were earlier submitted to KBLPA. Presentation was made to TAG-KBLPA for review and discussion.

After detailed technical deliberations, TAG-KBLPA recommended on the alternate alignment at various points, as below:

S.N.	Particular	Location	Recommendation of TAG
	<b>District Chhatarpur</b>		
1	R.D. 49900 m to 52215 m	Village Gaurari	TAG agreed as per proposal submitted by Govt. of MP
2	R.D. 73204 m to 79653 m	Village Nayagaon	TAG agreed as per proposal submitted by Govt. of MP
3	R.D. 86607 m to 89250 m	Village Rajapurwa	TAG agreed as per proposal submitted by Govt. of MP
4	R.D. 94900 m to 97000 m	Village Bandhikalan	TAG agreed as per proposal submitted by Govt. of MP
5	R.D. 99779 m to 103400 m	Village Katare ka Purwa & Ishanagar	TAG agreed as per proposal submitted by Govt. of MP
	<b>District Tikamgarh</b>		
6	R.D. 116150 m to 125622 m	Village Ramnagar	The TAG noted that alignment proposed has multiple sharp bends and involves an additional length of 603 meters. The TAG also noted that there could be a straight route between coordinates E-323029.938 N-2759607.085 and E-319454.246 N-2760476.974, which would reduce the length of alternate alignment significantly. However, this route involves tunnel in around 1.5 km reach which may be feasible. In the light of this, the TAG suggested that the

			option of taking water through the tunnel/canal combination to the extent feasible may be explored between coordinates E-323029.938 N-2759607.085 and E-319454.246 N-2760476.974. This will reduce the length and minimize the bends in the water carrier, reduce the losses and thus will be more efficient.
7	R.D. 132999 m to 137966 m	Village Pali	TAG agreed as per proposal submitted by Govt. of MP
8	R.D. 141987 m to 146016 m	Village Baharu Tal	TAG agreed as per proposal submitted by Govt. of MP
9	R.D. 160542 m to 163434 m	Village Barakchhar	TAG agreed as per proposal submitted by Govt. of MP
10	R.D. 182882 m to 186245 m	Village Jewar	TAG agreed as per proposal submitted by Govt. of MP
11	R.D. 108000 m to 170000 m	Bansujara Micro Irrigation Project Command	As per clause 11.1.3
	<b>District Niwari</b>		
12	R.D. 198348 m to 201444 m	Village Bamhori Sheetal	TAG agreed as per proposal submitted by Govt. of MP
13	R.D. 212478 m to 213828 m	Village Teela & Niwari	The TAG agreed with the proposal of MP to carry water through the canal duct as the same will reduce the efforts/cost for acquisition substantially as the area is under commercial development. The TAG further directed that the requirement of land for acquisition shall be kept to the extent minimum by appropriate water conveying structures.
	<b>District Jhansi</b>		
14	R.D. 218250 m to 219304 m (Tail end)	Place Barua Sagar reg outfall point of link Canal	TAG-KBLPA held that this assertion had earlier been not accepted by MoJS during the 23.04.2025 meeting with KBLPA & GoMP officials. Therefore TAG-KBLPA did not consider appropriate to re-open this issue and not agreed.

**The TAG further directed that:**

- i. **Elevation Profile Submission:** WRD, Madhya Pradesh shall submit the elevation profiles for the proposed alternate alignments with intervals of around 100m, based on the already available actual ground survey data and communicate these within two weeks. Further survey activities including elevation & coordinates determination shall be undertaken by KBLPA.

- ii. **Alignment Finalization:** KBLPA noted that the above proposed alternate alignments have sharp bends at few locations, which need to be curved. KBLPA shall carry out curvature marking on the proposed alignment, in accordance with discharge variations as per IS Codes, and fix centerline pillars along the finalized alignment. The finalized alignment will be acceptable to both the state governments.
- iii. **Land Acquisition:** WRD, MP sought clarification regarding the required width of land to be acquired on both sides of the canal centerline. The ACEO (Canals), KBLPA informed that this information had already been communicated in the Minutes of the Meeting held on 05.07.2024 and has been reiterated vide letter dated 18.02.2025, sent to the GoMP. However, a copy of the aforementioned letter has again been provided to WRD, MP representative during the meeting.

### 11.3 Alternate Alignment Proposal Submitted by I&WRD, UP.

S.N.	Particular	Location	Recommendation of TAG
	<b>District Jhansi</b>		
1	R.D. 160900 m to 162150 m	Village Baghora	UP Government informed that they agreed with the proposal of MP. Hence, TAG agreed as per proposal submitted by Govt. of MP
2	R.D. 190300 m to 191100 m	Village Bangradhawa	TAG agreed as per proposal submitted by Govt. of UP
3	R.D. 187900 m to 188200 m	Magarwara	TAG agreed as per proposal submitted by Govt. of UP

- I&WRD, Uttar Pradesh presented proposals for three villages: Baghaura, Bangradhawa, and Magarwara (Jhansi district) to TAG-KBLPA.
- I&WRD UP informed TAG that the proposal submitted by WRD Madhya Pradesh for Baghaura village has been reviewed and is acceptable to them.
- TAG-KBLPA commended I&WRD UP for submitting comprehensive technical details within the stipulated timeframe.
- TAG-KBLPA requested WRD Madhya Pradesh to provide technical details of the alternate alignment, on par with the level of detail submitted by I&WRD UP.

11.3.1 After due deliberation, TAG-KBLPA further held that KBLPA may proceed with the tendering process subject to compliance of above decision with respect to individual package.

With the permission of Chair ACEO(E&M), KBLPA made a presentation on the Water Distribution between GoMP and GoUP. The details are at Annexure-I.

The meeting ended with vote of thanks to Chair.

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**11<sup>th</sup> TAG Minutes of the Meeting on Water Distribution between GoMP and GoUP.**

A meeting on Water Distribution between GoMP and GoUP was held under the chairmanship of Shri D.P. Bhargava, Former Director (Technical) NHPC, Faridabad Officer, KBLPA on dated 10.05.2025 at 11:00 PM at Jhansi.

**1. Background**

The Water distribution defined as per MoA signed on 22.03.2021 as follows:

Total	Non-monsoon
• GoMP: 2350 MCM	1834 MCM
• GoUP: 1700 MCM	750 MCM

ACEO (E&M) stated that the internal water distribution by respective states within ambit of MoA signed has been revisited.

ACEO (E&M) highlighted the key outcomes of the previous meetings and presented the ambit outcome.

- i. As per 6th KBLPA meeting, CEO, KBLPA suggested that the quantum and discharge distribution of water of Table 3.2 of comprehensive DPR to be studied jointly with both the states and proposal can be placed in TAG.
- ii. Accordingly, on 28.03.2024 GoUP (ACEO construction, KBLP) shared **table 3.2** (monthly demand) part of DPR as Annexure A
- iii. GoUP has reconfirmed month-wise demand & possible releases from Daudhan Dam. On observation of GoUP which is attached as Annexure-B
- iv. Further in the meeting dated 05.09.2024, GoMP explained the water distribution of GoMP for Non -Monsoon period (November- May) and monsoon period (June to October). ACEO construction on behalf of GoUP agreed with the distribution.
- v. Further, 26.02.2025: E-n-C, WRD, GoMP sought clarification by GoUP on two points-
  1. For Lalitpur, a provision of 18.95 MCM water made for irrigation work, which is not in accordance with the MoA dated 22.03.2021.
  2. Similarly, the arrangement to take 31.98 MCM water made for Lalitpur drinking water was also not clear.
- vi. ACEO (Construction), KBLP, on dated 17.03.2025 responded to GoMP’s queries and clarified that the submission by GoUP were as per MoA.
- vii. Accordingly, GoMP stated on 11.04.2025 that 18.95 MCM water is the part of 1700 MCM which is allotted to GoUP and this will be table No. 6.9 of DPR.
- viii. GoMP (E-in-C, WRD) also shared water use requirement through Ken-Betwa Link Canal by M.P. & U.P. which is in the format of monthly water uses and discharge requirement through Ken-Betwa Link CANAL based on the data provided by M.P. The total water requirement of M.P. & U.P. is as per Annexure -C shown which is accepted to GoUP & GoMP.

2. Both states representatives suggested that over and above 5% of capacity on maximum discharge i.e. 156.65 cumecs as shown in Annexure-C chart/table, 10% shall also be added for design point of view for link canal. TAG members deliberated and decided that the capacity of water canal should be fixed as per BIS/DPR.
3. CEO, KBLPA further suggested that a comprehensive water distribution table including release of water from Reservoir, release of water from lower-level tunnel, necessary environmental flow etc. should also be in the table and which should be furnished to both the states for their acceptance. Also, the Average discharge/ peak discharge & volume of water from each tapping point month wise with the detail whether the tapping point should be gravity flow or pumping be included as per of MOA for water distribution. Tapping details should include canal RD, left/ right canal bank, month wise outflow of volume of water, gravity or through pumping etc. The volume of water should be as per the agreed water volume of both state through KB link canal.

**Decision**

4. TAG members noted the above proposals of Govt. of MP & Govt. of UP. representatives of WRD, MP and I & WRD, UP agreed to provide the additional tapping related data sought at (3) above by 25.05.2025.

**List of participants in 11<sup>th</sup> meeting of Technical Advisory Group for Ken-Betwa Link Project  
Authority (TAG-KBLPA) held at Jhansi on 09.05.2025**

**TAG Members**

- |    |   |   |                  |
|----|---|---|------------------|
| 1. | Shri D.P. Bhargava, Former Director (Technical) NHPC, Faridabad     | - | Chairman         |
| 2. | Shri Vijai Saran, Former Chief Engineer, CWC                        | - | Member           |
| 3. | Shri Gyan Prakash Soni, Former Chief Engineer, WRD, MP              | - | Member           |
| 4. | Shri Pradeep Kumar Saxena, Former Commissioner (Indus), DoWR, RD&GR | - | Member           |
| 5. | Shri P.K. Saxena, ACEO(E&M), KBLPA, Bhopal                          | - | Member           |
| 6. | Shri Prabhat Kumar Dubey, ACEO (Design & Planning), I &WRD, UP      | - | Member           |
| 7. | Shri T.M. Tripathi, ACEO(Canal), KBLPA, Jhansi                      | - | Member Secretary |

**Special Invite**

1. Shri P.K. Dixit, CEO, KBLPA, Bhopal
2. Shri Devesh Shukla, ACEO(Cons.), KBLP, I&WRD, UP

**Other Participant**

1. Shri Yuvraj Warke, Chief Engineer, D.K. Basin, MP, WRD
2. Shri Manoj Kumar Meena, Director, BCD(NW&S) Dte, CWC, New Delhi.
3. Shri Ashish Singh Kushwah, Executive Engineer, KBLPA Jhansi
4. Shri Santosh Kumar, Executive Engineer, KBLCCD-2 Jhansi, U.P.
5. Shri Mosin Hasan, Executive Engineer, KBLC, WRD, Baldevgrah, MP.
6. Smt. Uma Gupta, Executive Engineer, KBLP, WRD, Chhatarpur, MP.
7. Shri D.S. Kushwaha, Executive Engineer, WRD, Tikamgrah, MP.
8. Shri Anshul Jain, Assistant Engineer, KBLPA, Jhansi.
9. Shri Ashish Swami, Assistant Engineer, KBLPA, Jhansi.
10. Shri Murendra Gupta, SDO, WRD, MP.
11. Shri Shivam Agrawal, Assistant Engineer, KBLCCD-2 Jhansi, UP
12. Shri Rajneesh Tiwari, SDO, KBLP, Tikamgrah, MP.
13. Shri Amit Tiwari, Junior Engineer, KBLPA, Jhansi.
14. Shri Bhoor Singh Meena, Junior Engineer, KBLPA, Jhansi.
15. Shri Ram Singh Meena, Junior Engineer, KBLPA, Jhansi.
16. Shri Kanhiya lal, Junior Engineer, WRD, MP
17. Shri Pradip kumar, Junior Engineer, KBLCCD-2 Jhansi, UP
18. Shri Sudhir Kumar, Junior Engineer, KBLCCD-2 Jhansi, UP
19. Shri Sanjay Singh, Junior Engineer, KBLCCD-2 Jhansi, UP

**List of participants in 11<sup>th</sup> meeting of Technical Advisory Group for Ken-Betwa Link Project  
Authority (TAG-KBLPA) held at Jhansi on 10.05.2025**

**TAG Member S**

- |    |   |   |                  |
|----|---|---|------------------|
| 1. | Shri D.P. Bhargava, Former Director (Technical) NHPC, Faridabad     | - | Chairman         |
| 2. | Shri Vijai Saran, Former Chief Engineer, CWC                        | - | Member           |
| 3. | Shri Gyan Prakash Soni, Former Chief Engineer, WRD, MP              | - | Member           |
| 4. | Shri Pradeep Kumar Saxena, Former Commissioner (Indus), DoWR, RD&GR | - | Member           |
| 5. | Shri P.K. Saxena, ACEO(E&M), KBLPA, Bhopal                          | - | Member           |
| 6. | Shri Prabhat Kumar Dubey, ACEO (Design & Planning), I &WRD, UP      | - | Member           |
| 7. | Shri T.M. Tripathi, ACEO(Canal), KBLPA, Jhansi                      | - | Member Secretary |

**Special Invite**

1. Shri P.K. Dixit, CEO, KBLPA, Bhopal
2. Shri Devesh Shukla, ACEO(Cons.), KBLP, I&WRD, UP

**Other Participant**

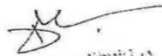
1. Shri Manoj Kumar Meena, Director, BCD(NW&S) Dte, CWC, New Delhi
2. Shri Ashish Singh Kushwah, Executive Engineer, KBLPA Jhansi
3. Shri Mosin Hasan, Executive Engineer, KBLC, WRD Baldevgrah, M.P.
4. Shri Anshul Jain, Assistant Engineer, KBLPA, Jhansi, U.P.
5. Shri Ashish Swami, Assistant Engineer, KBLPA, Jhansi, U.P.
6. Shri Rajneesh Tiwari, SDO, KBLP, WRD, Tikamgrah, M.P.
7. Shri Amit Tiwari, Junior Engineer, KBLPA, Jhansi.
8. Shri Bhoor Singh Meena, Junior Engineer, KBLPA, Jhansi.
9. Shri Ram Singh Meena, Junior Engineer, KBLPA, Jhansi.
10. Shri Kanhiya lal, Junior Engineer, WRD, MP

**Table-3.2**  
**Monthly Water Demands from Daudhan Dam**

Unit: MCM

Month	Release of Water from Reservoir for Saleha	Drinking water demand for enroute command in MP	Drinking water demand for enroute command in UP	Irrigation demand for Ken command in UP	Irrigation demand for Ken command in MP through Baryrpur barrage	Irrigation demand for Ken command in MP through Ken LBC	Surface water demand for Irrigation in enroute command (MP) Including Transmission Losses	Surface water demand for Irrigation in enroute command (UP) Including Transmission Losses	Water transfer at Parichha for utilisation in Lalitpur(UP) on substitution basis	Total Ken-Betwa link enroute demand (3+4+8+9+10)	Environmental flow (MCM) in the Ken river	Surface water from Daudhan + Diversion in Ken LBC + Diversion in Link canal (2+5+6+7+11+12)
1	2	3	4	5	6	7	8	9	10	11	12	13
Jun	21.40	0.00	0	13.49	2.54	7.67	10.01	0.69	0.00	10.69	17.63	73.42
Jul	69.48	6.00	0	127.58	18.60	56.02	73.12	5.81	0.00	84.93	123.6	480.21
Aug	3.35	6.00	0	207.14	6.31	19.00	24.80	6.71	0.00	37.51	257.49	530.81
Sep	30.63	6.00	0	240.81	21.76	65.51	85.50	6.69	0.00	98.19	36.17	493.06
Oct	9.92	6.00	0	152.35	5.38	16.30	21.27	4.77	0.00	32.04	4.81	220.81
Nov	90.19	9.00	0	54.68	17.40	153.12	199.84	29.15	1.86	239.85	7.7	562.94
Dec	81.90	9.00	0	127.56	51.95	153.05	199.76	65.89	4.60	279.26	7.7	701.43
Jan	93.44	9.00	0	149.63	54.01	172.69	225.38	67.97	11.63	313.98	7.7	791.45
Feb	35.96	9.00	0	150.12	46.05	63.49	82.86	69.42	11.44	172.72	7.7	476.05
Mar	0.00	0.00	12	82.40	0.00	0.00	0.00	51.64	10.42	74.06	7.7	164.16
Apr	0.00	0.00	13	0.00	0.00	0.00	0.00	0.00	7.00	20.00	7.7	27.70
May	0.00	0.00	9.79	0.00	0.00	0.00	0.00	0.00	3.98	13.77	7.7	21.47
<b>Total</b>	<b>436.29</b>	<b>60.00</b>	<b>34.79</b>	<b>1305.77</b>	<b>224.02</b>	<b>706.84</b>	<b>922.55</b>	<b>308.73</b>	<b>50.93</b>	<b>1377.0</b>	<b>493.60</b>	<b>4543.51</b>

Details of month wise demand of UP and possible releases from Daudhan Reservoir (UNIT IN MCM)												
S.N.	SEASON	MONTH	RELEASE/ PROVISION	IRIGATION BY K-B LINK CANAL			DOMESTIC USE BY K-B LINK CANAL			TOTAL UTILIZATION BY K-B LINK	TOTAL UTILIZATION BY KEN	ALL TOTAL UTILIZATION BY K-B LINK + KEN
				MAHOBA	JHANSI	LALITPUR	MAHOBA	JHANSI	LALITPUR			
1	MANSOON	JUN	14.18	0.00	0.69	0.00	0.00	0.00	0.00	0.69	13.49	14.18
2		JULY	133.39	0.00	5.81	0.00	0.00	0.00	0.00	5.81	127.58	133.39
3		AUG	299.33	0.00	6.71	0.00	0.00	0.00	0.00	6.71	292.62	299.33
4		SEP	346.43	0.00	6.69	0.00	0.00	0.00	0.00	6.69	339.74	346.43
5		OCT	157.13	0.00	4.77	0.00	0.00	0.00	0.00	4.77	152.36	157.13
		TOTAL	950.46	0.00	24.67	0.00	0.00	0.00	0.00	24.67	925.79	950.46
6	NON-MANSOON	NOV	67.47	20.66	8.49	1.86	0.00	0.00	0.00	31.01	36.46	67.47
7		DEC	156.00	46.91	18.98	4.60	0.00	0.00	0.00	70.49	85.51	156.00
8		JAN	181.94	48.80	19.17	4.63	0.00	0.00	7.00	79.60	102.34	181.94
9		FEB	183.26	50.49	18.93	4.44	0.00	0.00	7.00	80.86	102.40	183.26
10		MAR	127.33	37.12	14.52	3.42	7.00	5.00	7.00	74.06	53.27	127.33
11		APR	20.00	0.00	0.00	0.00	8.00	5.00	7.00	20.00	0.00	20.00
12		MAY	13.77	0.00	0.00	0.00	5.13	4.66	3.98	13.77	0.00	13.77
		TOTAL	749.77	203.98	80.09	18.95	20.13	14.66	31.98	369.79	379.98	749.77
		G.TOTAL	1700.23	203.98	104.76	18.95	20.13	14.66	31.98	394.46	1305.77	1700.23

  
 (Devesh Singh)  
 Additional Chief Engineer (Civil)  
 Uttar Pradesh Water Development Corporation  
 Lucknow (U.P.)

## Annexure - C

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MONTHLY WATER USE AND DISCHARGE REQUIREMENT THROUGH KEN-BETWA LINK CANAL BY M.P. & U.P.								
Water Account unit-MCM							Water Discharge Unit-Cumec	
Season	Months	Water transfer through Ken-Betwa Link Canal						
		Enroute of Link for M.P. (MCM)	Enroute of Link for U.P. (MCM)	For drinking purpose M.P. (MCM)	For drinking purpose U.P. (MCM)	Total From link canal (MCM)	Monthly Avg Discharge (In Cumec)	Peak Discharge in Cumec
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Monsoon	June	24.95	4.56	0	0	29.51	11.41	156.65
	July	119.21	13.50	0	0	132.71	51.19	156.65
	August	46.04	22.86	0	0	68.90	26.58	156.65
	September	127.70	61.99	0	0	189.69	73.18	156.65
	October	29.10	13.75	0	0	42.85	16.53	156.65
	<b>Total</b>	<b>347</b>	<b>116.66</b>	<b>0</b>		<b>463.66</b>		
Non-Monsoon	November	187.28	43.26	0	0	230.54	88.94	156.65
	December	302.70	66.23	0	0	368.93	142.33	156.65
	January	332.36	66.70	0	7	406.06	156.65	156.65
	February	219.10	31.41	0	7	257.51	99.34	156.65
	March	0.00	3.42	30	19	52.42	20.22	156.65
	April	0.00	0.00	20	20	40.00	15.43	156.65
	May	0.00	0.00	10	13.77	23.77	9.17	156.65
	<b>Total</b>	<b>1041.44</b>	<b>211.02</b>	<b>60</b>	<b>66.77</b>	<b>1379.23</b>		
	<b>G. Total</b>	<b>1388.43</b>	<b>327.68</b>	<b>60.00</b>	<b>66.77</b>	<b>1842.89</b>		

भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन नदी विकास एवं गंगा संरक्षण विभाग  
केंद्रीय जल आयोग  
बैराजएवंनहरअभिकल्प (उ.प.एवं द.) निदेशालय



Government of India  
Ministry of Jal Shakti  
Dept. of Water Resources, RD&GR  
Central Water Commission  
BCD (NW&S) Directorate

To,

The Chief Engineer,  
NWDA, Lucknow-226010

Subject: Feasibility of 32 km long alternate alignment of Ken-Betwa Link Project.

Ref: The MoU dated 20.11.2020 signed between CWC and NWDA.

Sir,

Reference is invited to the MOU under reference on the subject cited above. In this regard, it is to mention that, based on the limited available data provided by the NWDA, presentation/ discussions held and visit to the project site conducted by CWC team, the proposal for 32 km long alternate alignment of Ken-Betwa Link Project has been examined to study its feasibility and is observed as below:

1) **Head limitation and corresponding uneconomical diameter:** The available gravity head is 8.85 m in the 32.0 km stretch of the new alternate. For 0.5 m driving head at exit, six pipes of 3.2 m diameter each with maximum thickness of up to 20 mm shall be required for carrying discharge of 42.07 cumec.

NWDA has estimated cost of 3m dia with 14 mm thickness as Rs 9702 Crore, which is 22% higher than the cost of Rs 7932 Crore for the original alignment of open channel. The cost of the 3.2 m diameter each with maximum up to 20 mm thickness pipe will be even more and if the cost the land acquisition for this new alternate is considered, then the cost will further go up, hence much costlier as compared to the originally approved canal.

2) **Inherent Silt and O&M Challenges:** The representative silt data of the site is not available. However, due to inherent silt concentration in the sub- basin, it is apprehended that technically there may be issues with effective silt transport through the proposed alternative 32km long pipes, therefore, posing maintenance problem. Further, it may also lead to frequent air entrainment, impairing the delivery efficiency. On the contrary, the already approved open channel provides hassle free flow conditions, therefore, is a better option as compared to the new alternate alignment.

In view of the economic un-viability, silt related management issues and O&M challenges, the proposal for the 32 km long alternate alignment of Ken-Betwa Link Project may not be feasible. As such, CWC is of considered opinion that the original proposal for 74 km long (open channel) is better and safe proposition to proceed with, dropping the new alternate for the aforesaid reasons.

This issues with approval of Member D&R, CWC.

Yours faithfully,  
Digitally signed by MOHAN MEENA  
Date: 2021.04.03 15:58:52 IST

Asstt. Director

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