



Government of India
Ministry of Environment, Forest and Climate Change
IA Division
(River Valley and Hydroelectric Projects)



Minutes of 37TH meeting River Valley and Hydroelectric Projects held from 14/08/2025 to 14/08/2025

Date: 21/08/2025

MoM ID: EC/MOM/EAC/556191/8/2025

Agenda ID: EC/AGENDA/EAC/556191/8/2025

Meeting Venue: N/A

Meeting Mode: Virtual

Date & Time:

| | | |
|------------|----------|----------|
| 14/08/2025 | 10:30 AM | 05:30 PM |
|------------|----------|----------|

1. Opening remarks

The 37th meeting of the EAC for River Valley & Hydroelectric Projects organized by the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi, was held on 14th August, 2025 on Virtual mode, under the Chairmanship of Prof. G. J. Chakrapani.

2. Confirmation of the minutes of previous meeting

Confirmation of the Minutes of the 36th EAC meeting:

The EAC confirmed the Minutes of the Meeting held on 36th EAC meeting on 30th July, 2025 with following corrections:

[A] Correction in the Minutes of Agenda item No. 36.1

The Member Secretary, EAC informed that the EAC considered a proposal for grant of Environmental Clearance titled as “Khadakwasala Fursungi Tunnel Project substitute to New Mutha Right Bank Canal KM 1 to Km 34 in an area of 23.8364 Ha located at Village Akole, Rui etc, Sub-district Indapur, Haveli, Pune City, etc. District Pune, Maharashtra by M/s Executive Engineer IPI Division Bsb Pune” during its 36th meeting held on 30th July, 2025 under Agenda Item 36.1.

While circulating the documents for the EAC members the PP informed that the “Public Hearing (PH) for the proposed project has been conducted by the State Pollution Control Board at three districts separately.” The same statement got mentioned in the Minutes of the 36th EAC meeting held on 30th July, 2025 at sub-para xx of para 36.1.2 and in para 36.1.4 under heading ‘Observations by the EAC in earlier meeting held on 15.04.2025’ of Agenda Item 36.1.

However, during processing of the recommendations of the EAC in the Ministry it has been noticed in the

EIA/EMP report submitted by the PP on Parivesh Portal that the State Pollution Control Board conducted the Public Hearing on 28/02/2025 at Khadakwasla Judo hall, Bypass Road, behind Petrol Pump, Khadakwasla, Havelli, in District Pune only, under the chairmanship of Additional District Magistrate, Pune.

The EAC after verifying the information mentioned in the EIA/EMP report regarding public hearing recommended for correction in the Minutes of the 36th meeting held on 30th July, 2025 under Agenda Item 36.1.

3. Details of proposals considered by the committee

Day 1 -14/08/2025

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

| Oju HEP by OJU SUBANSIRI HYDRO POWER CORPORATION PVT LTD located at UPPER SUBANSIRI, A RUNACHAL PRADESH | | | |
|---|--------------------------|-----------------|---|
| Proposal For | | Fresh EC | |
| Proposal No | File No | Submission Date | Activity (Schedule Item) |
| IA/AR/RIV/546767/2025 | J-12011/10/2022-IA.I (R) | 01/08/2025 | River Valley/Irrigation projects (1(c)) |

3.1.2. Project Salient Features

37.1.1: The EAC noted that the PP vide email/letter dated 07.08.2025 has informed that as several key officials and technical experts associated with the project are currently committed to critical site visits that were scheduled well in advance. Therefore, they could not attend the virtual meeting for the project on 14th August, 2025 and requested a postponement of the hearing to a suitable date.

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

The proposal was *deferred* on the above lines.

3.1.5. Recommendation of EAC

Deferred for PP not attending the meeting

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

| | | | |
|---|-------------------------|------------------------|---|
| Chhadgada Pumped Storage Project by GSC PSP UTTAR PRIVATE LIMITED located at PRAYAGRAJ,UTTAR PRADESH | | | |
| Proposal For | | Fresh ToR | |
| Proposal No | File No | Submission Date | Activity (Schedule Item) |
| IA/UP/RIV/546740/2025 | J-12011/26/2025-IA.I(R) | 01/08/2025 | River Valley/Irrigation projects (1(c)) |

3.2.2. Project Salient Features

37.2.1 : The EAC noted that the PP vide email/letter dated 08.08.2025 has informed that due to unavoidable circumstances, they will not be in a position to present the case before the EAC on the scheduled date. Therefore, it is requested that the matter kindly be deferred for consideration in the subsequent EAC meeting.

3.2.3. Deliberations by the committee in previous meetings

N/A

3.2.4. Deliberations by the EAC in current meetings

The proposal was *deferred* on the above lines.

3.2.5. Recommendation of EAC

Deferred for PP not attending the meeting

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

| | | | |
|--|-------------------------|------------------------|---|
| Project for Construction of Pailani Barrage on Ken River under Ken Betwa Link Project by Executive engineer ken betwa link canal construction division -1 mahoba located at BANDA,UTTAR PRADESH | | | |
| Proposal For | | Fresh ToR | |
| Proposal No | File No | Submission Date | Activity (Schedule Item) |
| IA/UP/RIV/541503/2025 | J-12011/27/2025-IA.I(R) | 26/07/2025 | River Valley/Irrigation projects (1(c)) |

3.3.2. Project Salient Features

37.3.1: The proposal is for grant of Terms of Reference (TOR) to the project Construction of Pailani Barrage on Ken River under Ken Betwa Link Project in an area 287 Ha at Village Achhraund, Laraka Purwa, Adari etc. Sub- district Banda, Maudaha & Hamirpur, District Banda & Hamirpur, Uttar Pradesh

by M/s Ken Betwa Link Canal Construction Division-1, Mahoba Irrigation and Water Resources Department, Uttar Pradesh.

37.3.2: The Project Proponent and the accredited Consultant M/s Enviro Infra Solutions Pvt Ltd, made a detailed presentation on the salient features of the project and informed that:

- i. Uttar Pradesh Water Resource Department, Lucknow, Uttar Pradesh is the inherent project proponent. The Uttar Pradesh Irrigation and Water Resources Department (UPI & WRD) is responsible for execution phase of Pailani Barrage and comprehensive utilization of surface and ground water resources of the State while estimation, Design and planning of Pailani Barrage is done NWDA and CWC.
- ii. The geographical location of the finalized location of the proposed barrage is, Latitude 25°45'16.06" N, Longitude 80° 24' 52" E. The present proposed barrage site is located at a distance of about 1.3 km on the upstream of confluence of the Ken River and Chandrawal river. The Chandrawal river joins the Ken River from the left bank, at a distance of about 1.3 km on the upstream of the bridge joining the Pailani village and Pailani Dera.
- iii. The proposed project involves the construction of a barrage across the Ken River, as part of the Ken-Betwa Link Project. It consists of a pressurized pipe system with micro network system to irrigate 25500 ha. in Rabi and Kharif Seasons each, Pipe canal system to irrigate 25500 Ha area of Banda district, total 2006.87 km network of rising main, Branch Rising main and gravity main with micro distribution network will be required for command area to irrigate area of 25500 ha.
- iv. **Land requirement:** Total land area required for acquisition is 287.00 Ha., 280.312 ha. of private land and 6.688 ha forest land has to be acquired. The details of land acquisition, project appurtenances wise are summarized in Table below.

Table: Land details

| S. No. | Project Appurtenance | Area (ha) |
|--------|--|---|
| 1 | Private land (Submergence) | 196.00 Ha |
| 2 | Barrage construction land | 84 Ha Total land out of which 6.688 Ha is Forest land |
| 3 | Forest land | 6.688 Ha |
| 4. | Proposed Rabi & Kharif irrigation Area | 25500 Ha in Each season |

- v. **Demographic details in 10 km radius of project area:** The human population in Banda district of Uttar Pradesh will be benefited due to the assured irrigation supply. The current estimate population of Banda city in 2025 is 224,000, while Banda metro population is estimated at 232,000. The last census was conducted in 2011 and the schedule census for Banda city in 2021 was postponed due to Covid. The current estimates of Banda city are based on past growth rate. Once govt conducts census for Banda city, we will update the same here in 2025. As per provisional reports of Census India, population of Banda in 2011 is 154,428. Although Banda city has population of 154,428; its urban / metropolitan population is 160,473. Most of this population is dependent entirely on Agriculture which is mainly rainfed at present. Due to the construction of this Barrage this sizeable population depending on agriculture in the command areas will be benefitted due to increased agricultural activities.
- vi. **Water requirement:** 140 KLD which shall be drawn from the Ken river water can be pumped and stored in a tank at higher elevation. The domestic requirement shall be 80 KLD which shall be met from the ground water resource. Post construction the domestic requirement shall be 20 KLD only.
- vii. **Project Cost:** The estimated project cost is Rs 2480.56 Crores.

viii. **Project Benefit:** Total Employment will be 500 persons as direct & 10 persons during operation stage. The project authority proposes to allocate Rs. 24.80 Cr. @ of 1.0% towards CER (as per Ministry's OM dated 1st May 2018).

ix. **Environmental Sensitive area:** No Eco sensitive zone in 10 km of study area.

x. **Alternative Studies:** Proposed barrage location had been finalized primarily on the basis of fulfilling the water sharing requirement of state of Uttar Pradesh as per their MoU with the state of Madhya Pradesh in Ken Betwa Link Project.

Further, the proposed barrage axis was also reviewed to ensure that the command area is served and other functional requirements are fulfilled, river hydraulics, topography etc. After studying various alternatives, the present barrage axis was finalized.

xi. Details of Solid waste/ Hazardous waste generation/ Muck and its management:

- Solid waste - During construction phase, labour colonies are proposed to be located at various locations, close to major construction sites. About 500 laborers are likely to congregate in the area during construction phase. About 30 MT/year solid municipal wastes are likely to be generated from staff colony and labour colony.
- Spoil, overburden or mine wastes - In this project, it is proposed to collect the construction waste from various construction sites, and disposed at sites identified in consultation with the district administration. Various construction sites would be properly leveled. The leveling or reclamation of various construction sites shall be made mandatory for the contractor, involved in the construction work. The details of the same shall be covered as a part of EMP to be presented as a part of the EIA report.
- Hazardous wastes & other industrial process wastes - NA
- Construction or demolition wastes - Construction waste from various construction sites will be disposed at sites identified in consultation with the district administration.
- Agricultural wastes - The proposed project envisages enhancement of irrigation intensity in the CCA of 25500 ha (Rabi and Kharif Each) in Banda district, Uttar Pradesh, which will increase agriculture-production, thereby increasing agricultural waste. Appropriate measures for the reuse and recycling of agricultural waste will be suggested as a part of the EMP study.

| | |
|-------------------------------------|--|
| Name of the Proposal | Project for Construction of Pailani Barrage on Ken River under Ken Betwa Link Project Proposal No :IA/MP/RIV/524621/2025 File No :J-12011/11/2022- IA.I (R) |
| Location (Including Coordinates) | The Proposed barrage site is located across river Ken near village - Pailani, Tehsil- Pailani District- Banda of Uttar Pradesh, Coordinates: at Right Bank: 25°45'13.25" N, 80°24'56.50"E Left Bank: 25°45'17.35"N, 80°24'42.60"E |
| Inter- state issue involved | Not Applicable |
| Seismic zone | Zone II |
| Category of the project | Category 'B' |

| | |
|--|--|
| Provisions | New Irrigation Project |
| Capacity / Cultural command area (CCA) | CCA = 25500 ha Both Rabi and Kharif Each |
| Attracts the General Conditions (Yes/No) | No |
| Additional information (if any) | Nil |

• **ToR/ EC Details:**

| | |
|---|--|
| Cost of project | Rs. 2480.56 Crore |
| Total area of Project | Submergence Area = 196 ha Culturable Command Area = 25500 ha |
| Height of Dam from River Bed (EL) | As per the Submergence Map of the Survey report, the submergence area of Pailani Barrage at its peak capacity, corresponding to the Full Pond Level of 96 m above MSL, is stretching . However, the actual quantum of water to be stored at the proposed Pailani Barrage, at the Full Pond Level of 96 m with effective storage, is estimated to be about 159.776 MCM. |
| Length of Tunnel/Channel | NA |
| Details of submergence area | The submergence area at FRL is 196 ha. |
| Types of Waste and quantity of generation during construction / Operation | <ul style="list-style-type: none"> • Solid waste - During construction phase, labour colonies are proposed to be located • at various locations, close to major construction sites. About 500 laborers and 10 technical staff are likely to congregate in the area during construction phase. The average per capita solid waste generated is of the order of 30 MT/year. • Spoil, overburden or mine wastes - In this project, it is proposed to collect the construction waste from various construction sites, and disposed at sites identified in consultation with the district administration. Various construction sites would be properly leveled. The leveling or reclamation of various con |

| | |
|--|--|
| | <p>struction sites shall be made mandatory for the contractor, involved in the construction</p> <ul style="list-style-type: none"> • work. The details of the same shall be covered as a part of EMP to be presented as a part of the EIA report. • Hazardous wastes & Other industrial process wastes – NA • Construction or demolition wastes - Construction waste from various construction sites will be disposed at sites identified in consultation with the district administration. • Agricultural wastes - The proposed project envisages enhancement of irrigation intensity in the CCA of 25500 ha in Banda district, UP, which will increase agriculture-production, thereby increasing agricultural waste. Appropriate measures for the reuse and recycling of agricultural waste will be suggested as a part of the EMP study. |
| | <ul style="list-style-type: none"> • Catchment area at dam site is 25832 Sq. Km sq km . • Minimum E-Flow: 34.76 MCM/Year |
| Is Projects earlier studied in Cumulative Impact assessment & Carrying Capacity studies(CIA&CC) for River in which project located. If yes then E-flow with TOR / Recommendation by EAC as per CIA&CC study of River Basin. If not the E-Flows maintain criteria for sustaining river ecosystem. | No (Explained above) |

•Muck Management Details:

| | |
|--|--|
| No. of proposed disposal area / (type of land- Forest / Pvt land) | <p>Nil</p> <ul style="list-style-type: none"> •Muck generated from dam's foundation shall be utilized for earthen dam and in fillings for developing areas for construction facilities. •Muck generated from laying pipe line network will be utilized for refilling of the trenches and the approach road proposed to be constructed along the canal. Also, the surplus soil requiring disposal will be spread on low lying farmers field with their consent, spread along the route in the low lying areas, laid in the community undulating area of the connected villages with the consent of conc |
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| | <p>erning Gram-panchayat or Janpad Panchayat.</p> <p>•The muck may also be used by nearby Gram Panchayats for construction of village roads etc.</p> |
| Muck management plan | <p>•Muck generated from construction of barrage after assuming swell factor of 20% has been estimated as 27000 cum which shall be utilized for earthen dam, producing coarse and fine aggregate for concrete production and in fillings for developing areas for construction facilities.</p> <p>•The total muck so generated will be utilized for refilling of the trenches and construction of other structures.</p> |
| Monitoring mechanism for Muck Disposal Transportation | Contractor and WRD |

| S. No. | Project Appurtenance | Area (ha) |
|--------|--|--|
| 1 | Private land (Submergence) | 196.00 Ha |
| 2 | Barrage construction land | 84 Ha Total Land, out of which 6.688 Ha is Forest land |
| 3 | Forest land | 6.688 Ha |
| 4. | Proposed Rabi & Kharif irrigation Area | 25500 Ha in Each season |

• Presence of Environmentally Sensitive Areas in the Study Area:

| Forest Land/ Protected Area/ Environmental Sensitivity Zone | Yes/No | Details of Certificate/ letter/ Remarks |
|---|--------|---|
| Reserve Forest / Protected Forest Land | Yes | 6.688 ha under DFO Banda (UP) |
| National Park | No | Nil |
| Wildlife Sanctuary | No | Nil |

• Court Cases Details: Nil

• Previous EC compliance and necessary approvals:

| Particulars | Letter No. and Date |
|------------------------------------|---------------------|
| Certified EC compliance report (if | NA |

| | |
|-----------------------------|---|
| applicable) | |
| Status of Stage- I FC | Stage I proposal submitted vide Proposal No. FP/U P/HYD/IRRIG/543093/2025 |
| Additional detail (If any) | Nil |
| Is FRA (2006) done for FC-I | Yes |

• **Miscellaneous :**

| Particulars | Details |
|-------------------------------------|--|
| | Enviro Infra Solutions Pvt. Ltd., Ghaziabad |
| | Annual Rabi & Kharif irrigation each of 25 500 ha 20 MCM for Drinking Water, Irrigation Water requirement: 164.22 MCM Development of fisheries in the reservoir Employment to around 500 local labour during construction period. |
| Status of other statutory clearance | Forest Clearances is under process |
| | There are total 103 households of Padodra village to be displaced and rehabited hence R&R plan will be prepared as per Rehabilitation and resettlement act 2013. Land of 38 (Right Bank 18, Left Bank: 20) villages is coming under submergence. Private and Govt. Land near to the project site is proposed to be identified and acquired. The Rehabilitation and Resettlement Plan has been prepared to comprehensively address the issues rising out of land acquisition, as assessment of land/house/asset coming under acquisition, estimation of extent of loss and compensation to be offered in line with The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (RFCT_LARR). |

3.3.3. Deliberations by the committee in previous meetings

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|-----|
| N/A |
|-----|

3.3.4. Deliberations by the EAC in current meetings

The EAC during deliberations noted the following:

The EAC deliberated on the information submitted (Form 1, PFR, kml file, etc.) and as presented in the meeting and observed that the proposal is for grant of TOR for conducting EIA study for Construction of Pailani Barrage on Ken River under Ken Betwa Link Project in an area 287 Ha at Village Achhraund, Laraka Purwa, Adari etc. Sub- district Banda, Maudaha & Hamirpur, District Banda & Hamirpur, Uttar Pradesh by M/s Ken Betwa Link Canal Construction Division-1, Mahoba Irrigation and Water Resources Department, Uttar Pradesh.

The EAC noted that the present project proposal comes under “B1” category; as per the provisions of the EIA Notification, 2006, as amended as Culturable Command Area (CCA: 25,500 ha). However, the project to be considered by the SEIAA but due to no existence of Uttar Pradesh SEIAA the project is being appraised at the Central level by the Expert Appraisal Committee (EAC).

The EAC noted that the Ken-Betwa Link Project Phase-I in Panna & Chhatarpur District of Madhya Pradesh by M/s Water Resources Department, Government of Madhya Pradesh and M/s National Water Development Agency has been granted Environmental Clearance (EC) by the MoEF&CC vide its letter J-12011/20/2013-IA-I dated 25.08.2017.

The Committee observed that the present proposal appears to be an expansion of the Ken-Betwa Link Project, whereas the PP has applied as a new project on the PARIVESH Portal. The Committee further enquired about the components which are covered in the earlier EC of Ken-Betwa Link Project Phase-I. However, the PP was unable to provide satisfactory information on this matter.

The EAC further sought clarification regarding the extent and network of the command area proposed to be irrigated under the project. The Committee observed that details regarding the distribution network, area coverage, and overlap (if any) with the previously granted Environmental Clearance were neither clearly presented in the documents submitted nor adequately explained during the meeting. The same was not replied satisfactorily by the PP.

Accordingly, the EAC sought a comprehensive clarification/justification, along with all relevant KML files and maps, clearly delineating the proposed project components, command area and its distinction from Ken-Betwa Link Project Phase-I that were granted EC earlier.

37.3.4 The EAC after detailed deliberations deferred the proposal for want of following information:

- i. PP shall clarify whether the proposal is an expansion or a new project, and justify filing as a new proposal.
- ii. PP shall provide a comparative list of earlier cleared and new components, and submit maps/KML files showing overlap and new additions.
- iii. PP shall Furnish district-wise breakup of the proposed command area, and clarify changes or overlaps (if any) with the earlier approved area.
- iv. Provide data on water availability and allocation for irrigation, and impact on design, storage, or reservoir operation of earlier approved ken betwa link and approval of the same that has been obtained earlier, if any.
- v. PP shall submit updated maps, satellite imagery, and KML files, and alternative sites analysis.

The proposal was **deferred** on the above lines.

3.3.5. Recommendation of EAC

Deferred for ADS

3.4. Agenda Item No 4:**3.4.1. Details of the proposal**

Providing Medium Irrigation Project to Various Panchayats of Jawalamukhi Area in Distt. Kangra HP by EXE CUTIVE ENGINEER located at KANGRA,HIMACHAL PRADESH

| | | | |
|---------------------------------------|--------------------------|------------------------|--|
| Proposal For | | Fresh ToR | |
| Proposal No | File No | Submission Date | Activity (Schedule Item) |
| IA/HP/RIV/544802/2025 | J-12011/28/2025-IA.I (R) | 26/07/2025 | River Valley/Irrigation projects (1(c)) |

3.4.2. Project Salient Features

37.4.1 : The EAC noted that the PP vide email dated 14.08.2025 has informed that due unavoidable circumstances they were not in position to attend the meeting , therefore it was requested to consider this proposal in the next meeting.

3.4.3. Deliberations by the committee in previous meetings

N/A

3.4.4. Deliberations by the EAC in current meetings

The proposal was *deferred* on the above lines.

3.4.5. Recommendation of EAC

Deferred for PP not attending the meeting

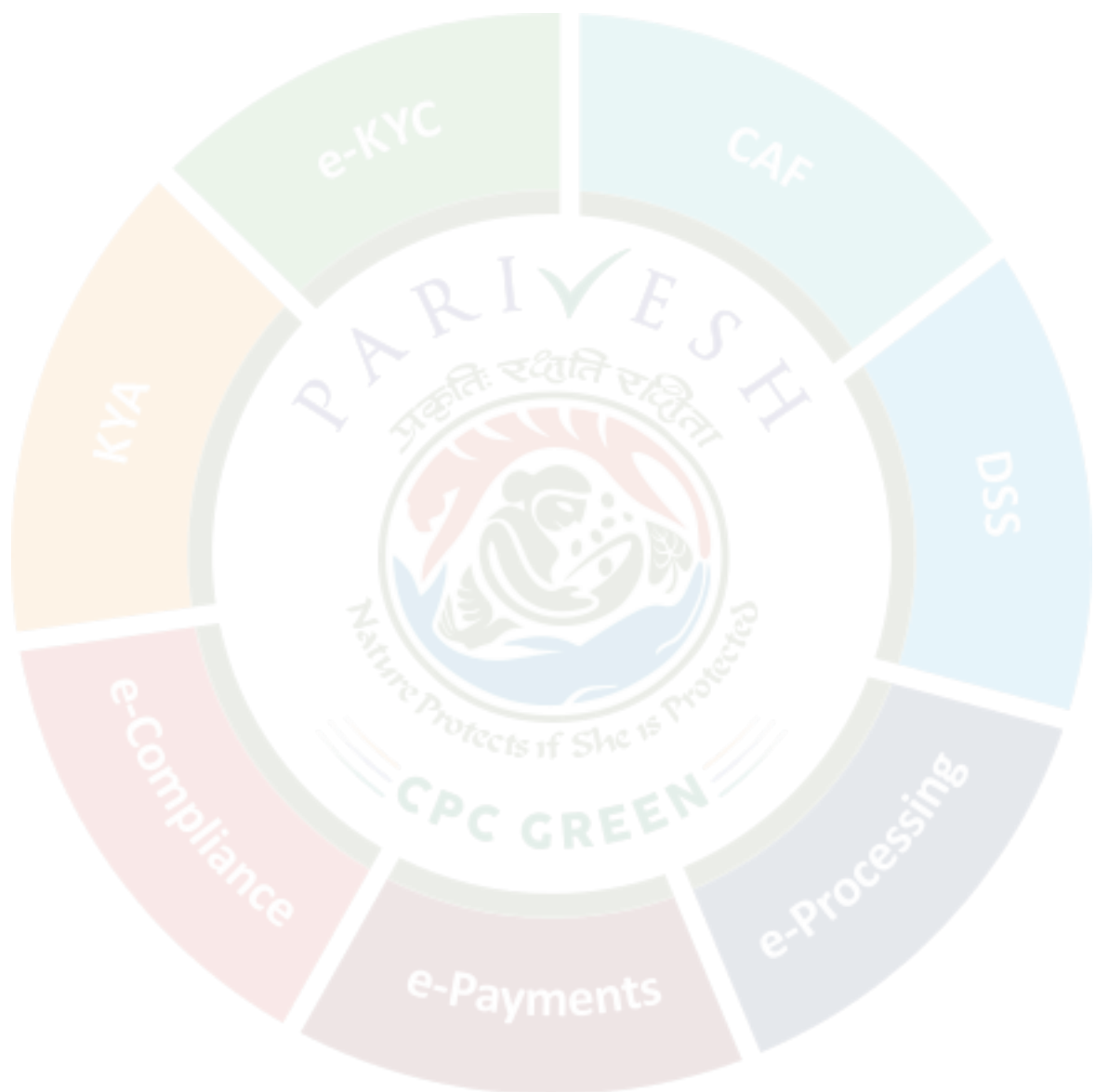
4. Any Other Item(s)

N/A

5. List of Attendees

| Sr. No. | Name | Designation | Email ID | Remarks |
|---------|---------------------|---------------|--------------------|---------|
| 1 | Prof G J Chakrapani | Chairman, EAC | cha*****@gmail.com | |
| 2 | Dr Mukesh Sharma | Member (EAC) | muk***@iitk.ac.in | Absent |
| 3 | Dr Uday Kumar R Y | Member (EAC) | uda*****@yahoo.com | |
| 4 | Dr J A Johnson | Member (EAC) | jaj@wii.gov.in | Absent |
| 5 | Dr J V Tyagi | Member (EAC) | jvt*****@gmail.com | |
| 6 | Shri Kartik Sapre | Member (EAC) | kar*****@gmail.com | Absent |
| 7 | Shri Ajay Kumar Lal | Member (EAC) | akl*****@gmail.com | |
| 8 | Dr A K Sahoo | Member (EAC) | ami***@gmail.com | Absent |
| 9 | Shri Rakesh Goyal | Member | goy*****@nic.in | |

| | | | | |
|----|--------------------|---------------|-----------------|--|
| 10 | Shri Balram Kumar | Member | emo***@nic.in | |
| 11 | Yogendra Pal Singh | Scientist - F | yog*****@nic.in | |



MINUTES OF THE 37TH MEETING OF THE EXPERT APPRAISAL COMMITTEE FOR RIVER VALLEY AND HYDROELECTRIC PROJECTS HELD ON 14TH AUGUST 2025 THROUGH VIDEO CONFERENCE

The 37th meeting of the EAC for River Valley & Hydroelectric Projects organized by the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi, was held on 14th August, 2025 on Virtual mode, under the Chairmanship of Prof. G. J. Chakrapani. The list of Members present in the meeting is at Annexure.

Confirmation of the Minutes of the 36th EAC meeting:

The EAC confirmed the Minutes of the Meeting held on 36th EAC meeting on 30th July, 2025 with following corrections:

[A] Correction in the Minutes of Agenda item No. 36.1

The Member Secretary, EAC informed that the EAC considered a proposal for grant of Environmental Clearance titled as *“Khadakwasala Fursungi Tunnel Project substitute to New Mutha Right Bank Canal KM 1 to Km 34 in an area of 23.8364 Ha located at Village Akole, Rui etc, Sub-district Indapur, Haveli, Pune City, etc. District Pune, Maharashtra by M/s Executive Engineer IPI Division Bsb Pune”* during its 36th meeting held on 30th July, 2025 under Agenda Item 36.1.

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However, during processing of the recommendations of the EAC in the Ministry it has been noticed in the EIA/EMP report submitted by the PP on Parivesh Portal that the State Pollution Control Board conducted the Public Hearing on 28/02/2025 at Khadakwasla Judo hall, Bypass Road, behind Petrol Pump, Khadakwasla, Haveli, in District Pune only, under the chairmanship of Additional District Magistrate, Pune.

The EAC after verifying the information mentioned in the EIA/EMP report regarding public hearing recommended for correction in the Minutes of the 36th meeting held on 30th July, 2025 under Agenda Item 36.1.

Agenda Item No. 37.1

Oju Hydro-Electric Project of capacity 2220 MW at Village Reddi, Tehsil Limeking Circle, District Upper Subansiri, Arunachal Pradesh by M/s Oju Subansiri Hydro Power Corporation Pvt Ltd - Environmental Clearance - reg.

[Proposal No. IA/AR/RIV/546767/2025; F. No. J-12011/10/2022-IA.I (R)]

37.1.1: The EAC noted that the PP vide email/letter dated 07.08.2025 has informed that as several key officials and technical experts associated with the project are currently committed to critical site visits that were scheduled well in advance. Therefore, they could not attend the virtual meeting for the project on 14th August, 2025 and requested a postponement of the hearing to a suitable date.

The proposal was *deferred* on the above lines.

Agenda Item No. 37.2

Chhadgada Closed Loop Pumped Storage project (900 MW) in an area of 292.4Ha located at Village Chhargarh, Deoghat, Devhat & Katra, Sub-district Koraon & Lalganj, District Prayagraj & Mirzapur, Uttar Pradesh by M/s GSC PSP Uttar Private Limited - Terms of References (TOR) – reg.

[Proposal No. IA/UP/RIV/546740/2025; F. No. J-12011/26/2025-IA.I(R)]

37.2.1 : The EAC noted that the PP vide email/letter dated 08.08.2025 has informed that due to unavoidable circumstances, they will not be in a position to present the case before the EAC on the scheduled date. Therefore, it is requested that the matter kindly be deferred for consideration in the subsequent EAC meeting.

The proposal was *deferred* on the above lines.

Agenda Item No. 37.3

Construction of Pailani Barrage on Ken River under Ken Betwa Link Project in an area 287 Ha at Village Achhraund, Laraka Purwa, Adari etc. Sub- district Banda, Maudaha & Hamirpur, District Banda & Hamirpur, Uttar Pradesh by M/s Ken Betwa Link Canal Construction Division-1, Mahoba Irrigation and Water Resources Department, Uttar Pradesh – Terms of References (TOR) - reg.

[Proposal No. IA/UP/RIV/541503/2025; F. No. J-12011/27/2025-IA.I(R)]

37.3.1: The proposal is for grant of Terms of Reference (TOR) to the project Construction of Pailani Barrage on Ken River under Ken Betwa Link Project in an area 287 Ha at Village Achhraund, Laraka Purwa, Adari etc. Sub- district Banda, Maudaha & Hamirpur, District Banda & Hamirpur, Uttar Pradesh by M/s Ken Betwa Link Canal Construction Division-1, Mahoba Irrigation and Water Resources Department, Uttar Pradesh.

37.3.2: The Project Proponent and the accredited Consultant M/s Enviro Infra Solutions Pvt Ltd, made a detailed presentation on the salient features of the project and informed that:

- i. Uttar Pradesh Water Resource Department, Lucknow, Uttar Pradesh is the inherent project proponent. The Uttar Pradesh Irrigation and Water Resources Department (UPI & WRD) is responsible for execution phase of Pailani Barrage and comprehensive utilization of surface and ground water resources of the State while estimation, Design and planning of Pailani Barrage is done NWDA and CWC.
- ii. The geographical location of the finalized location of the proposed barrage is, Latitude 25°45'16.06" N, Longitude 80° 24' 52" E. The present proposed barrage site is located at a distance of about 1.3 km on the upstream of confluence of the Ken River and Chandrawal river. The Chandrawal river joins the Ken River from the left bank, at a distance of about 1.3 km on the upstream of the bridge joining the Pailani village and Pailani Dera.
- iii. The proposed project involves the construction of a barrage across the Ken River, as part of the Ken-Betwa Link Project. It consists of a pressurized pipe system with micro network system to irrigate 25500 ha. in Rabi and Kharif Seasons each, Pipe canal system to irrigate 25500 Ha area of Banda district, total 2006.87 km network of rising main, Branch Rising main and gravity main with micro distribution network will be required for command area to irrigate area of 25500 ha.
- iv. **Land requirement:** Total land area required for acquisition is 287.00 Ha., 280.312 ha. of private land and 6.688 ha forest land has to be acquired. The details of land acquisition, project appurtenances wise are summarized in Table below.

Table: Land details

| S. No. | Project Appurtenance | Area (ha) |
|--------|--|---|
| 1 | Private land (Submergence) | 196.00 Ha |
| 2 | Barrage construction land | 84 Ha Total land out of which 6.688 Ha is Forest land |
| 3 | Forest land | 6.688 Ha |
| 4. | Proposed Rabi & Kharif irrigation Area | 25500 Ha in Each season |

- v. **Demographic details in 10 km radius of project area:** The human population in Banda district of Uttar Pradesh will be benefited due to the assured irrigation supply. The current estimate population of Banda city in 2025 is 224,000, while Banda metro population is estimated at 232,000. The last census was conducted in 2011 and the schedule census for Banda city in 2021 was postponed due to Covid. The current estimates of Banda city are based on past growth rate. Once govt conducts census for Banda city, we will update the same here in 2025. As per provisional reports of Census India, population of Banda in 2011 is 154,428. Although Banda city has population of 154,428; its urban / metropolitan population is 160,473. Most of this population is dependent entirely on Agriculture which is mainly rainfed at present. Due to the construction of this Barrage this sizeable population depending on agriculture in the command areas will be benefitted due to increased agricultural activities.
- vi. **Water requirement:** 140 KLD which shall be drawn from the Ken river water can be pumped and stored in a tank at higher elevation. The domestic requirement shall be 80 KLD which shall be met from the ground water resource. Post construction the domestic requirement shall be 20 KLD only.
- vii. **Project Cost:** The estimated project cost is Rs 2480.56 Crores.
- viii. **Project Benefit:** Total Employment will be 500 persons as direct & 10 persons during operation stage. The project authority proposes to allocate Rs. 24.80 Cr. @ of 1.0% towards CER (as per Ministry's OM dated 1st May 2018).
- ix. **Environmental Sensitive area:** No Eco sensitive zone in 10 km of study area.
- x. **Alternative Studies:** Proposed barrage location had been finalized primarily on the basis of fulfilling the water sharing requirement of state of Uttar Pradesh as per their MoU with the state of Madhya Pradesh in Ken Betwa Link Project.

Further, the proposed barrage axis was also reviewed to ensure that the command area is served and other functional requirements are fulfilled, river hydraulics, topography etc. After studying various alternatives, the present barrage axis was finalized.

- xi. **Details of Solid waste/ Hazardous waste generation/ Muck and its management:**
- Solid waste - During construction phase, labour colonies are proposed to be located at various locations, close to major construction sites. About 500 laborers are likely to congregate in the area during construction phase. About 30 MT/year solid municipal wastes are likely to be generated from staff colony and labour colony.
 - Spoil, overburden or mine wastes - In this project, it is proposed to collect the

construction waste from various construction sites, and disposed at sites identified in consultation with the district administration. Various construction sites would be properly leveled. The leveling or reclamation of various construction sites shall be made mandatory for the contractor, involved in the construction work. The details of the same shall be covered as a part of EMP to be presented as a part of the EIA report.

- Hazardous wastes & other industrial process wastes - NA
- Construction or demolition wastes - Construction waste from various construction sites will be disposed at sites identified in consultation with the district administration.
- Agricultural wastes - The proposed project envisages enhancement of irrigation intensity in the CCA of 25500 ha (Rabi and Kharif Each) in Banda district, Uttar Pradesh, which will increase agriculture-production, thereby increasing agricultural waste. Appropriate measures for the reuse and recycling of agricultural waste will be suggested as a part of the EMP study.

xii. The salient features of the project are as under:-

- **Project Details:**

| | |
|-------------------------------------|--|
| Name of the Proposal | Project for Construction of Pailani Barrage on Ken River under Ken Betwa Link Project Proposal No :IA/MP/RIV/524621/2025 File No :J-12011/11/2022- IA.I (R) |
| Location (Including Coordinates) | The Proposed barrage site is located across river Ken near village - Pailani, Tehsil- Pailani District- Banda of Uttar Pradesh, Coordinates: at Right Bank: 25°45'13.25" N, 80°24'56.50"E Left Bank: 25°45'17.35"N, 80°24'42.60"E |
| Inter- state issue involved | Not Applicable |
| Seismic zone | Zone II |

- **Category Details:**

| | |
|--|--|
| Category of the project | Category 'B' |
| Provisions | New Irrigation Project |
| Capacity / Cultural command area (CCA) | CCA = 25500 ha Both Rabi and Kharif Each |
| Attracts the General Conditions (Yes/No) | No |

| | |
|------------------------------------|-----|
| Additional information (if any) | Nil |
|------------------------------------|-----|

• **ToR/ EC Details:**

| | |
|---|---|
| Cost of project | Rs. 2480.56 Crore |
| Total area of Project | Submergence Area = 196 ha Culturable Command Area = 25500 ha |
| Height of Dam from River Bed (EL) | As per the Submergence Map of the Survey report, the submergence area of Pailani Barrage at its peak capacity, corresponding to the Full Pond Level of 96 m above MSL, is stretching . However, the actual quantum of water to be stored at the proposed Pailani Barrage, at the Full Pond Level of 96 m with effective storage, is estimated to be about 159.776 MCM. |
| Length of Tunnel/Channel | NA |
| Details of submergence area | The submergence area at FRL is 196 ha. |
| Types of Waste and quantity of generation during construction / Operation | <ul style="list-style-type: none"> • Solid waste - During construction phase, labour colonies are proposed to be located • at various locations, close to major construction sites. About 500 laborers and 10 technical staff are likely to congregate in the area during construction phase. The average per capita solid waste generated is of the order of 30 MT/year. • Spoil, overburden or mine wastes - In this project, it is proposed to collect the construction waste from various construction sites, and disposed at sites identified in consultation with the district administration. Various construction sites would be properly leveled. The leveling or reclamation of various construction sites shall be made mandatory for |

| | |
|--|---|
| | <p>the contractor, involved in the construction</p> <ul style="list-style-type: none"> work. The details of the same shall be covered as a part of EMP to be presented as a part of the EIA report. Hazardous wastes & Other industrial process wastes – NA Construction or demolition wastes - Construction waste from various construction sites will be disposed at sites identified in consultation with the district administration. Agricultural wastes - The proposed project envisages enhancement of irrigation intensity in the CCA of 25500 ha in Banda district, UP, which will increase agriculture-production, there by increasing agricultural waste. Appropriate measures for the reuse and recycling of agricultural waste will be suggested as a part of the EMP study. |
| E-Flows for the Project | <ul style="list-style-type: none"> Catchment area at dam site is 25832 Sq.Km sq km . Minimum E-Flow: 34.76 MCM/Year |
| Is Projects earlier studied in Cumulative Impact assessment & Carrying Capacity studies(CIA&CC) for River in which project located. If yes then E-flow with TOR / Recommendation by EAC as per CIA&CC study of River Basin. If not the E-Flows maintain criteria for sustaining river ecosystem. | No (Explained above) |

• **Muck Management Details:**

| | |
|--|--|
| No. of proposed disposal area / (type of land- Forest / Pvt land) | <p>Nil</p> <ul style="list-style-type: none"> Muck generated from dam's foundation shall be utilized for earthen dam and in |
|--|--|

| | |
|--|---|
| | <p>fillings for developing areas for construction facilities.</p> <ul style="list-style-type: none"> • Muck generated from laying pipe line network will be utilized for refilling of the trenches and the approach road proposed to be constructed along the canal. Also, the surplus soil requiring disposal will be spread on low lying farmers field with their consent, spread along the route in the low lying areas, laid in the community undulating area of the connected villages with the consent of concerning Gram-panchayat or Janpad Panchayat. • The muck may also be used by nearby Gram Panchayats for construction of village roads etc. |
| Muck management plan | <ul style="list-style-type: none"> • Muck generated from construction of barrage after assuming swell factor of 20% has been estimated as 27000 cum which shall be utilized for earthen dam, producing coarse and fine aggregate for concrete production and in fillings for developing areas for construction facilities. • The total muck so generated will be utilized for refilling of the trenches and construction of other structures. |
| Monitoring mechanism for Muck Disposal Transportation | Contractor and WRD |

• **Land Area Breakup:**

| S. No. | Project Appurtenance | Area (ha) |
|--------|--|--|
| 1 | Private land (Submergence) | 196.00 Ha |
| 2 | Barrage construction land | 84 Ha Total Land, out of which 6.688 Ha is Forest land |
| 3 | Forest land | 6.688 Ha |
| 4. | Proposed Rabi & Kharif irrigation Area | 25500 Ha in Each season |

- **Presence of Environmentally Sensitive Areas in the Study Area:**

| Forest Land/ Protected Area/ Environmental Sensitivity Zone | Yes/No | Details of Certificate/ letter/ Remarks |
|--|---------------|--|
| Reserve Forest / Protected Forest | Yes | 6.688 ha under DFO Banda (UP) |
| National Park | No | Nil |
| Wildlife Sanctuary | No | Nil |

- **Court Cases Details: Nil**
- **Previous EC compliance and necessary approvals:**

| Particulars | Letter No. and Date |
|--|--|
| Certified EC compliance report (if applicable) | NA |
| Status of Stage- I FC | Stage I proposal submitted vide Proposal No. FP/UP/HYD/IRRIG/543093/2025 |
| Additional detail (If any) | Nil |
| Is FRA (2006) done for FC-I | Yes |

- **Miscellaneous :**

| Particulars | Details |
|-----------------------|--|
| Details of consultant | Enviro Infra Solutions Pvt. Ltd., Ghaziabad QCIQCI No. 78 as per August, 2025, NABET/EIA/2225/RA 0300 Valid: November 27 2025 |
| Project benefit | Annual Rabi & Kharif irrigation each of 25500 ha 20 MCM for Drinking Water, Irrigation Water requirement: 164.22 MCM Development of fisheries in the reservoir |

| | |
|-------------------------------------|---|
| | Employment to around 500 local labour during construction period. |
| Status of other statutory clearance | Forest Clearances is under process |
| R&R details | <p>There are total 103 households of Padodra village to be displaced and rehabited hence R&R plan will be prepared as per Rehabilitation and resettlement act 2013. Land of 38 (Right Bank 18, Left Bank: 20) villages is coming under submergence. Private and Govt. Land near to the project site is proposed to be identified and acquired.</p> <p>The Rehabilitation and Resettlement Plan has been prepared to comprehensively address the issues rising out of land acquisition, assessment of land/house/asset coming under acquisition, estimation of extent of loss and compensation to be offered in line with The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (RFCT_LARR).</p> <p>Total budget allocated for LA, R&R is Rs. 173.72 Crore.</p> |

37.3.3 The EAC during deliberations noted the following:

The EAC deliberated on the information submitted (Form 1, PFR, kml file, etc.) and as presented in the meeting and observed that the proposal is for grant of TOR for conducting EIA study for Construction of Pailani Barrage on Ken River under Ken Betwa Link Project in an area 287 Ha at Village Achhraund, Laraka Purwa, Adari etc. Sub- district Banda, Maudaha & Hamirpur, District Banda & Hamirpur, Uttar Pradesh by M/s Ken Betwa Link Canal Construction Division-1, Mahoba Irrigation and Water Resources Department, Uttar Pradesh.

The EAC noted that the present project proposal comes under “B1” category; as per the provisions of the EIA Notification, 2006, as amended as Culturable Command Area (CCA: 25,500 ha). However, the project to be considered by the SEIAA but due to no existence of

Uttar Pradesh SEIAA the project is being appraised at the Central level by the Expert Appraisal Committee (EAC).

The EAC noted that the Ken-Betwa Link Project Phase-I in Panna & Chhatarpur District of Madhya Pradesh by M/s Water Resources Department, Government of Madhya Pradesh and M/s National Water Development Agency has been granted Environmental Clearance (EC) by the MoEF&CC vide its letter J-12011/20/2013-IA-I dated 25.08.2017.

The Committee observed that the present proposal appears to be an expansion of the Ken-Betwa Link Project, whereas the PP has applied as a new project on the PARIVESH Portal. The Committee further enquired about the components which are covered in the earlier EC of Ken-Betwa Link Project Phase-I. However, the PP was unable to provide satisfactory information on this matter.

The EAC further sought clarification regarding the extent and network of the command area proposed to be irrigated under the project. The Committee observed that details regarding the distribution network, area coverage, and overlap (if any) with the previously granted Environmental Clearance were neither clearly presented in the documents submitted nor adequately explained during the meeting. The same was not replied satisfactorily by the PP.

Accordingly, the EAC sought a comprehensive clarification/justification, along with all relevant KML files and maps, clearly delineating the proposed project components, command area and its distinction from Ken-Betwa Link Project Phase-I that were granted EC earlier.

37.3.4 The EAC after detailed deliberations deferred the proposal for want of following information:

- i. PP shall clarify whether the proposal is an expansion or a new project, and justify filing as a new proposal.
- ii. PP shall provide a comparative list of earlier cleared and new components, and submit maps/KML files showing overlap and new additions.
- iii. PP shall Furnish district-wise breakup of the proposed command area, and clarify changes or overlaps (if any) with the earlier approved area.
- iv. Provide data on water availability and allocation for irrigation, and impact on design, storage, or reservoir operation of earlier approved ken betwa link and approval of the same that has been obtained earlier, if any.
- v. PP shall submit updated maps, satellite imagery, and KML files, and alternative sites analysis.

The proposal was *deferred* on the above lines.

Agenda Item No. 37.4

Medium Irrigation Project to Various Panchayats of Jawalamukhi (CCA: 2590 Ha) in an area of 17.89 Ha Village Salasi, Kotla, Kotu Dhorian (869) and etc., Sub-district Nadaun,

Jawalamukhi, Khundian & Dera Gopipur etc., District Hamirpur & Kangra, Himachal Pradesh By Executive Engineer, Jal Shakti Vibhag Division – Terms of References (TOR) (TOR) – Reg.

[Proposal No. IA/HP/RIV/544802/2025; F. No. J-12011/28/2025-IA.I(R)]

37.4.1 : The EAC noted that the PP vide email dated 14.08.2025 has informed that due unavoidable circumstances they were not in position to attend the meeting , therefore it was requested to consider this proposal in the next meeting.

The proposal was *deferred* on the above lines.



ATTENDANCE

| S. No. | Name of Member | Role |
|--------|-------------------------|--|
| 1. | Prof. Govind Chakrapani | Chairman |
| 2. | Dr. Uday Kumar R Y | Member |
| 3. | DR. J. V. Tyagi | Member |
| 4. | Shri Ajay Kumar Lal | Member |
| 5. | Shri Rakesh Goyal | Member Representative of Central Electricity Authority (CEA) |
| 6. | Shri Balram Kumar | Member Representative of Central Water Commission (CWC) |
| 7. | Shri Yogendra Pal Singh | Member Secretary |



APPROVAL OF THE CHAIRMAN

Re: Draft MOM of the 37th EAC (RVHEP) HELD ON 14.08.2025-REG.

Chakrapani GovindaJoseph <govind.chakrapani@es.iitr.ac.in >

Thu, 21 Aug 2025 12:16:41 PM +0530

To "Yogendra Pal Singh" <yogendra78@nic.in>

Cc "Dr Krishnendu Mondal" <krishnendu.mondal@gov.in>

Approved.
Chakrapani

From: "Yogendra Pal Singh" <yogendra78@nic.in>

To: "Chakrapani GovindaJoseph" <govind.chakrapani@es.iitr.ac.in>

Cc: "Dr Krishnendu Mondal" <krishnendu.mondal@gov.in>

Sent: Thursday, August 21, 2025 11:42:25 AM

Subject: Draft MOM of the 37th EAC (RVHEP) HELD ON 14.08.2025-REG.

