



Government of India

Ministry of Environment, Forest and Climate Change

IA Division

(River Valley and Hydroelectric Projects)



AGENDA OF 2ND MEETING OF THE EXPERT APPRAISAL COMMITTEE ON RIVER VALLEY PROJECTS

| | |
|----------------------|--|
| Agenda ID | EC/AGENDA/EAC/522623/10/2023 |
| Agenda Creation Date | 21/10/2023 |
| Title of Meeting | AGENDA OF 2ND MEETING OF THE EXPERT APPRAISAL COMMITTEE ON RIVER VALLEY PROJECTS |
| Meeting Mode | Virtual |
| Meeting Venue | N/A |
| Meeting Date | Start Date : 26/10/2023 End Date : 26/10/2023 |

| Meeting Date | Meeting Mode | Start Time | End Time |
|---------------------|--------------|------------|----------|
| Day 1 26/10/2023 | Virtual | 10:30 AM | 05:30 PM |

List of Proposals

| Sr. No. | Proposal Details | Location | Meeting Date | Proponent |
|---------|---|---|--------------|--|
| 1 | Proposal No :IA/AP/RIV/447249/2023 File No :J-12011/16/2021-IA.I (R) Project Name :Gandikota Pumped Storage Project (1000 MW) Proposal For : Fresh EC | State : ANDHRA PRADESH District : Y.S.R. | 26/10/2023 | NEW AND RENEWABLE ENERGY DEVELOPMENT CORPORATION OF ANDHRA PRADESH LTD (NREDCAP) |

| | | | | |
|---|--|---|------------|-------------------------------------|
| | Activity: 1(c) River Valley/Irrigation projects Sector: RIV | | | |
| 2 | Proposal No :IA/KA/RIV/447282/2023 File No :J-12011/19/2017-IA.I (R) Project Name :Sharavathy Pumped Storage Project (2000 MW) Proposal For: Fresh ToR Activity: 1(c) River Valley/Irrigation projects Sector: RIV | State: KARNATAKA District: UTTARA KANNADA | 26/10/2023 | KARNATAKA POWER CORPORATION LIMITED |

Any Other Item(s)

| Sr. No. | Proposal Name. | Proposal Details | Location |
|---------|----------------|------------------|----------|
|---------|----------------|------------------|----------|

Expert Appraisal Committee Members Details

| Sr. No. | Name | Designation | Email ID |
|---------|-------------------------|--------------|---------------------------------|
| 1 | Prof. G. J. Chakrapani | Chairman | govind.chakrapani@es.iitr.ac.in |
| 2 | Shri Ajay Kumar Lal | Member | aklal87@gmail.com |
| 3 | Dr Mukesh Sharma | Member (EAC) | mukesh@iitk.ac.in |
| 4 | Dr Uday Kumar R Y | Member (EAC) | udaykumarry@yahoo.com |
| 5 | Shri Sharvan Kumar | Member (EAC) | Dirhpa3@gmail.com |
| 6 | Dr J A Johnson | Member (EAC) | jaj@wii.gov.in |
| 7 | Dr B K Das | Member (EAC) | amiya.sahoo@icar.gov.in |
| 8 | Shri Janardan Choudhary | Member | janardan.choudhary@gmail.com |
| 9 | Dr. J V Tyagi | Member | jvtyagi62@gmail.com |
| 10 | Shri Kartik Sapre | Member | kartiksapre@gmail.com |
| 11 | Alok Paul Kalsi | Member | emodte@nic.in |
| 12 | Yogendra Pal Singh | Scientist E | yogendra78@nic.in |

| | |
|----------------|---------------|
| Remarks | upload agenda |
|----------------|---------------|

AGENDA FOR 2ND MEETING OF EXPERT APPRAISAL COMMITTEE (RIVER VALLEY PROJECTS) TO BE HELD ON 26TH OCTOBER, 2023 FROM 10:30 AM – 05:30 PM THROUGH VIDEO CONFERENCE.

Instructions to Project Proponents:

1. The EAC meeting will be held through Video-conference.
2. Project Proponents shall send the following through e-mail to all EAC Members and Ministry Officials **Shri Yogendra Pal Singh, Scientist 'E'** (yogendra78@nic.in)/ **Dr. Saurabh Upadhyay, Scientist 'C'** (saurabh.upadhyay85@gov.in)/ and (ia.rivhep@gmail.com) by 25th October, 2023. E-mails of all members are given at the end:
 - (a) Duly filled Form as per the format given at page 4.
 - (b) **Executive Summary** of the project along with Annexures I, II, III and IV (as applicable) given at the end **failing submission which the proposal shall not be considered for VC.**
 - (c) .kml shape file showing boundaries of project facilities (dam, submergence, intake water point, power house site in Hydro projects, cultural command area in irrigation projects, etc.).
 - (d) Presentation .pdf (to all members), PPTs format to Ministry Officials.
 - (e) Copy of Valid NABET-QCI Certificate of Consultants.
3. The proposals listed in the agenda are given below. ***Those proponents whose details are received as per the Sl. No. 2 will only be taken up for Video-conference*** and to be followed strictly as the time slot given is limited.
4. MoEF&CC will moderate the Video Conferencing meeting. Web link will be shared before them meeting.
5. The presentation should be completed within 20 minutes to facilitate longer discussion on various environmental aspects of the project proposal.
6. Details of project proponents and number of online access points required are to be sent in advance. Only two persons from Proponent side shall communicate to Ministry Officials for connecting through video conference as per their time slot.
7. Only 3-4 access points (number of devices, computer/laptop/mobile) will be permitted for one proposal/proponent which include consultants. Only one project proponent will be connected to EAC as per their slot. Remaining proponents have to wait for their time slot for joining VC meeting. All proponents should join the conference in between 10:00AM – 10:15AM on 26.10.2023 for testing purpose. However, the actual meeting will commence at 10:30AM.

8. Project Proponent shall present salient points of the proposal. Only one person should speak at a time and keep the audio switched off mode during conference. Remaining shall keep their audio on 'mute' mode.
9. Time slots are given for each project. Accordingly, Project Proponents shall be ready for online connection at least 10 min before their given slot. If any problem faced please contact **Mr. Kamal, Moderator, NIC (Mobile No. 8800225088, email- support-ipb@nic.in)**.
10. The project proponents may kindly treat this as official communication and may not wait for separate letter (s) from MoEF&CC although, letters shall be issued separately. For any clarification, Shri Yogendra Pal Singh, Scientist 'E' at 011-20819364 may be contacted.
11. A short duration videography of the project area is to be presented before the EAC for better understanding of the project site, if available.
12. The project proponents should submit, PPT, Form - 2 for EC application, DPR, EIA/EMP report, Public Hearing proceedings, queries subsequently raised by the Ministry, if any including details of the court matters/Orders of the Court pertaining to the project if any, in original, duly signed by the company authorized signatory for Environmental Clearance, **in hard form to the Ministry.**
13. Hardcopies of the DPR or the detailed EIA, EMP, etc. need not be sent to the EAC members. Only an Executive Summary (it should not normally exceed 25 pages) along with PPTs by email.
14. For the proposals from the Private Sector Organizations, Director or above level and for proposals from the Government, the Chief Engineer concerned or above level officer/s should lead the team. Officers should come and respond to explain the project and respond to queries from the Committee Members.
15. Mobile Phone should be kept on switched off/silent mode during the meeting.

AGENDA OF 2ND MEETING OF THE EXPERT APPRAISAL COMMITTEE ON RIVER VALLEY PROJECTS

DATE : 26TH OCTOBER, 2023
TIME : 10:30 AM – 05:30 PM
MODE : VIDEO-CONFERENCE

| | |
|---------------------|---|
| Agenda Item No. 2.1 | Confirmation of the minutes of 1 st EAC meeting. |
|---------------------|---|

Consideration of Proposals

| | |
|---|--|
| Agenda Item No. 2.2 10:30 AM to 12:00 PM | Gandikota Pumped Storage Hydro-electric Project (1000MW), in an area of 190 ha. (469.5 acre) located at village Kondapuram village, Tehsil Muddanur, District Kadapa, Andhra Pradesh by M/s New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP) – Environmental Clearance (EC) - reg. [Proposal No. IA/AP/RIV/447249/2023; F. No. J-12011/16/2021-IA.I (R)] |
| Agenda Item No. 2.3 12:00 PM to 01:00 PM | Sharavathy Pumped Storage Project (2000 MW), in an area of 153 ha. located at village Begodi, Tehsil Honavar, District Uttara Kannada, Karnataka by M/s Karnataka Power Corporation Limited – Terms of References (TOR) - reg. [Proposal No. IA/KA/RIV/447282/2023; F. No. J-12011/19/2017-IA.I (R)] |
| Agenda Item No. 2.4 01:00 PM to 02:00 PM | Discussion on requirement of CIA/CSS for small hydro power projects – reg. |
| Agenda Item No. 2.5 02:00 PM onwards | Any other items with the permission of the Chair |

Agenda Form:

| | | | | |
|---|---------------------------------|-----------------------|---|--|
| Agenda No. | Project Proponent Organization: | | | |
| | Consultant Organization: | | | |
| | Subject: | | | |
| | | | | |
| Attendance Sheet: | | | | |
| S.No. | Name | E-mail & Phone Number | Whether 'Video Conference' access is required or not. | |
| | | | (Yes/No) | |
| Project Proponent: | | | | |
| Name and Phone no. of Coordinator for video-conference: | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| Consultants: | | | | |
| 5. | | | | |
| 6. | | | | |

List of EAC Committee Members - River Valley & HEP

| S. No. | Name & Organization | Role | E-mail |
|--------|--|-----------------|--|
| 1. | Prof. G. J. Chakrapani Professor Department of Earth Sciences, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand | Chairman | govind.chakrapani@es.iitr.ac.in , chakrapani.govind@gmail.com , |
| 2. | Dr. Udaykumar R. Y. Professor (HAG) Department of Electrical and Electronics Engineering NITK, Surathkal - 575025 | Member | udaykumarry@yahoo.com , udayakumarry@gmail.com , udaya@nitk.edu.in , |
| 3. | Dr. Mukesh Sharma Professor Civil Engg. Department, IIT Kanpur Kanpur – 208 016 | Member | mukesh@iitk.ac.in , |
| 4. | Shri Janardan Choudhary Ex Director (Technical) NHPC Ltd. House No. L-91, Jal Vidyut Apartments, Sector – 21C, Faridabad – 121001 | Member | janardan.choudhary@gmail.com , |
| 5. | Dr. J V Tyagi Former Director National Institute of Hydrology I-1, Solani Enclave, New Adarsh Nagar, Roorkee – 247667 Uttarakhand | Member | jv_tyagi@yahoo.com , jvtyagi62@gmail.com , |
| 6. | Shri Kartik Sapre Chief Executive Narmada Samagra Nyas “Nadi ka Ghar”, Senior MIG – 2, Ankur Colony, Shivaji Nagar, Bhopal - 462016 | Member | kartiksapre@gmail.com , kssapre@gmail.com , |
| 7. | Shri Ajay Kumar Lal 260, Phase II, Vasant Vihar Colony, Dehradun, Uttarakhand – 248 006 | Member | akl87@gmail.com , |
| 8. | Shri Sharvan Kumar Representative of Central Electricity Authority (CEA), Sewa Bhawan, R. K. Puram, Sector-I, New Delhi - 110 066 | Member | Dirhpa3@gmail.com |
| 9. | Alok Paul Kalsi Representative of Central Water Commission (CWC), Sewa Bhawan, R. K. Puram, New Delhi - 110 066 | Member | emodte@nic.in |

| | | | |
|-----|--|------------------|--|
| 10. | Dr. J A Johnson Representative of Wildlife Institute of India (WII), Post Box No.18, Chandrabani, Dehradun - 248 001, Uttarakhand | Member | jaj@wii.gov.in |
| 11. | Dr B. K. Das Dr. A.K. Sahoo Representative of Central Inland Fisheries Research Institute (CIFRI), Barrakpore - 800 120, West Bengal | Member | basantakumard@gmail.com , amiya7@gmail.com , |
| 12. | Shri Yogendra Pal Singh Scientist 'E' Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110 003. | Member Secretary | yogendra78@nic.in |

Details for Terms of Reference**(To be provided in only-word format)****1. EAC Meeting Details:**

| | |
|------------------------------|--|
| EAC meeting/s | |
| Date of Meeting/s | |
| Date of earlier EAC meetings | |

2. Project details:

| | |
|-------------------------------------|--|
| Name of the Proposal | |
| Location (Including coordinates) | |
| Inter- state issue involved | |
| Seismic zone | |

3. Category details:

| | |
|--|--|
| Category of the project | |
| Provisions | |
| Capacity / Cultural command area (CCA) | |
| Attracts the General Conditions (Yes/No) | |
| Additional information (if any) | |

4. Electricity generation capacity:

| | |
|------------------------------------|--|
| Powerhouse Installed Capacity | |
| Generation of Electricity Annually | |
| No. of Units | |
| Additional information (if any) | |

5. ToR/EC Details:

| | |
|---|--|
| Cost of project | |
| Total area of Project | |
| Height of Dam from River Bed (EL) | |
| Length of Tunnel/Channel | |
| Details of Submergence area | |
| Types of Waste and quantity of generation during construction/ Operation | |
| E-Flows for the Project | |
| Is Projects earlier studies in Cumulative Impact assessment & Carrying Capacity | |

| | |
|---|--|
| studies (CIA&CC) for River in which project located. If yes, then a) E-flow with TOR /Recommendation by EAC as per CIA&CC study of River Basin. b) If not the E-Flows maintain criteria for sustaining river ecosystem. | |
|---|--|

6. Muck Management Details:

| | |
|---|--|
| No. of proposed disposal area/(type of land-Forest/Pvt. land) | |
| Muck Management Plan | |
| Monitoring mechanism for Muck Disposal | |

7. Land Area Breakup:

| | |
|--------------------------------------|---|
| Private land | |
| Government land/Forest Land | |
| Submergence area/Reservoir area | |
| Land required for project components | |
| Additional information (if any) | - |

8. 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 | | |
| National Park | | |
| Wildlife Sanctuary | | |

9. Court case details:

| | |
|---------------------------------|--|
| Court Case | |
| Additional information (if any) | |

10. Affidavit/Undertaking details:

| | |
|---------------------------------|--|
| Affidavit/Undertaking | |
| Additional information (if any) | |

11. Previous EC compliance and necessary approvals:

| Particulars | Letter no. and date |
|--|---------------------|
| Certified EC compliance report (if applicable) | |
| Status of Stage- I FC | |
| Additional detail (If any) | |
| Is FRA (2006) done for FC-I | |

12. Miscellaneous

| Particulars | Details |
|--------------------------------------|----------------|
| Details of consultant | |
| Project Benefits | |
| Status of other statutory clearances | |
| R&R details | |
| Additional detail (If any) | |

Date:

(SIGNATURE OF AUTHORISED REPRESENTATIVE)

Place :

NAME & DESIGNATION :

Contact Nos. & E-mail :

**Name of the project
Addressed detailed
E-mail/contact No.**

Details for EC Proposal

(To be provided in only-word format)

1. EAC Meeting Details:

| | |
|------------------------------|--|
| EAC meeting/s | |
| Date of Meeting/s | |
| Date of earlier EAC meetings | |

2. Project details:

| | |
|---|--|
| Name of the Proposal | |
| Proposal No. | |
| Location (Including Coordinates) | |
| Company's Name | |
| CIN no. of Company/user agency | |
| Accredited Consultant and certificate no. | |
| Project location (Coordinates /River/ Reservoir) | |
| Inter- state issue involved | |
| Proposed on River/ Reservoir | |
| Type of Hydro-electric project | |
| Seismic zone | |

3. Category details:

| | |
|--|--|
| Category of the project | |
| Capacity / Cultural command area (CCA) | |
| Attracts the General Conditions (Yes/No) | |
| Additional information (if any) | |

4. ToR/EC Details:

| | |
|--|--|
| ToR Proposal No. | |
| EAC meeting date | |
| ToR Letter No. | |
| ToR grant Date | |
| Cost of project | |
| Total area of Project | |
| Height of Dam from River Bed (EL) | |
| Details of submergence area | |
| District to provide irrigation facility (if applicable) | |
| Details of tunnels on upper level & lower level and length of canal (if applicable) | |
| No. of affected Village. | |

| | |
|--|--|
| No. of Affected Families | |
| Project Benefits | |
| R&R details | |
| Catchment area/ Command area | |
| Types of Waste and quantity of generation during construction/Operation | |
| Material used for blasting and its composition as per DGMS standards. | |
| E-Flows for the Project | |
| Is Projects earlier studied in Cumulative Impact assessment & Carrying Capacity studies(CIA&CC) for River in which project located. If yes then c) E-flow with TOR/Recommendation by EAC as per CIA&CC study of River Basin. d) If not the E-Flows maintain criteria for sustaining river ecosystem. | |
| Details on provision of fish pass | |
| Project benefit including employment details (no of employee) | |
| Area of Compensatory Afforestation (CA) with tentative no of plantation. | |
| Previous EC details | |
| EC Compliance Report by R.O, MOEF&CC | |

5. Electricity generation capacity:

| | |
|------------------------------------|--|
| Powerhouse Installed Capacity | |
| Generation of Electricity Annually | |
| No. of Units | |

6. Muck Management Details:

| | |
|--|--|
| No. of proposed disposal area/ (type of land- Forest/Pvt land) | |
| Cross section of proposed muck area, Height of muck with slope. | |
| Distance of muck disposal area(location), from muck generation sources (project area)/River, HFL of proposed muck disposal area. | |
| Total Muck Disposal Area | |
| Estimate Muck to be generated | |
| Transportation | |
| Monitoring mechanism for Muck Disposal Transportation | |

7. Land Area Breakup:

| | |
|---------------------------------|--|
| Private land | |
| Government land/Forest Land | |
| Submergence area/Reservoir area | |

| | |
|--------------------------------------|--|
| Land required for project components | |
|--------------------------------------|--|

8. 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 | | |
| National Park | | |
| Wildlife Sanctuary | | |
| Archaeological sites monuments/historical temples etc | | |
| Additional information (if any) | - | |

Availability of Schedule-I species in study area

9. Public Hearing (PH) Details

| | |
|--------------------------------|--|
| Advertisement for PH with date | |
| Date of PH | |
| Venue | |
| Chaired by | |
| Main issues raised during PH | |
| No. of people attended | |

10. Brief of base line Environment:

| Particulars | Details |
|--|---------|
| Period of baseline data collection/Sampling period. | |
| (Air, noise, water, land) | |
| flora and fauna of the project area, aquatic ecology, etc. | |
| Brief description on hydrology and water assessment as per the approved Pre-DPR: | |
| Additional detail (If any) | |

11. Court case details:

| | |
|---------------------------------|--|
| Court Case | |
| Additional information (if any) | |

12. Status of other statutory clearances

| Particulars | Letter no. and date |
|---|---------------------|
| Status of Stage- I FC | |
| Approval of Central Water Commission | |
| Approval of Central Electricity Authority | |
| Additional detail (If any) | |

| | |
|------------------------------------|--|
| Is FRA (2006) done for FC-I | |
|------------------------------------|--|

13. Details of the EMP

| Activities | Capital cost (Crores) | Recurring cost (Lakhs/ annum) |
|------------|-----------------------|----------------------------------|
| | | |
| | | |

14. ADS details (If any)

| S. No | ADS Point | Reply |
|-------|-----------|-------|
| | | |

Date:

(SIGNATURE OF AUTHORISED REPRESENTATIVE)

Place :

NAME & DESIGNATION :

Contact Nos. & E-mail :

**Name of the project
Addressed detailed
E-mail/contact No.**

(Details for amendment in ToR/EC- word format)**1. EAC Meeting Details:**

| | |
|------------------------------|--|
| EAC meeting/s | |
| Date of Meeting/s | |
| Date of earlier EAC meetings | |

2. Project details:

| | |
|--|--|
| Name of the Proposal | |
| Proposal No. | |
| Location (Including Coordinates) | |
| Company's Name | |
| CIN no. of Company/user agency | |
| Accredited Consultant and certificate no. | |
| Project location (Coordinates /River/ Reservoir) | |
| Inter- state issue involved | |

3. Category details:

| | |
|--|--|
| Category of the project | |
| Capacity / Cultural command area (CCA) | |
| Attracts the General Conditions (Yes/No) | |
| Additional information (if any) | |

4. ToR/EC Details:

| | |
|--|--|
| Earlier EC Proposal No. | |
| Earlier EAC meeting date | |
| EC Letter No. | |
| EC grant Date | |
| Cost of project | |
| Total area of Project | |
| Date of online application for amendment in ToR/EC was | |
| Details of CTE/CTO | |

5. Electricity generation capacity:

| | |
|-------------------------------|--|
| Powerhouse Installed Capacity | |
|-------------------------------|--|

| | |
|---------------------------------------|--|
| Generation of Electricity Annually | |
| No. of Units | |

6. Detail reason for amendment in ToR/EC:

7. The comparative statement with reference to earlier proposal and revised proposal is to be given in table format:

| S. No. | Details | Original | Revised |
|-----------|---------|----------|---------|
| | | | |
| | | | |

8. Court case details:

| | |
|---------------------------------|--|
| Court Case | |
| Additional information (if any) | |

9. ADS details (If any)

| S. No | ADS Point | Reply |
|-------|-----------|-------|
| | | |

Date:

(SIGNATURE OF AUTHORISED REPRESENTATIVE)

Place :

NAME & DESIGNATION :

Contact Nos. & E-mail :

**Name of the project
Addressed detailed
E-mail/contact No.**

Annexure IV (in pdf format on letter head)

Name of the project
Addressed detailed
E-mail/Contact No.

Undertaking

This is to certify that the information provided in Form-1/Form-2/Form-4/Form-5 (whichever is applicable) in physical form and/or in .pdf format [(as applicable) in PARIVESH], to the Ministry/EAC members and PPT presentation during the EAC meeting held on 26.10.2023 have no deviation in respect of the project _____.

It is further certified that there are no data entry errors in the information uploaded in PARIVESH system including names/email-id/mobile numbers/address of the project proponent, authorized person, etc.

It is also certified that the supporting documents uploaded on PARIVESH portal are correct and duly authenticated by the authorized signatory.

In case of any deviation in data found in any of the documents, the Authorized Signatory shall be held responsible and furthermore, the above said project shall be rejected for grant of fresh EC/ToR/Amendment in EC. If any deviation is noticed subsequent to grant of fresh EC/ToR/amendment in EC, the same shall be liable to be withdrawn at the cost of the project proponent.

Authorized Signature

Date