

**MINUTES OF THE 46<sup>TH</sup> MEETING OF THE EXPERT APPRAISAL COMMITTEE FOR RIVER VALLEY AND HYDROELECTRIC PROJECTS HELD ON 15<sup>TH</sup> MAY, 2023 FROM 03.00 PM- 05:30 PM THROUGH VIRTUAL MODE.**

The 46<sup>th</sup> meeting of the re-constituted 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 15<sup>th</sup> May, 2023 through virtual mode, under the Chairmanship of Dr. Uday Kumar R.Y.. The list of Members present in the meeting is at **Annexure**.

**Agenda item No.46.1**

Minutes of 45<sup>th</sup> meeting of the EAC are under preparation as Ecological damage assessment Report for Kurha Vadhoda Islampur Lift Irrigation Scheme of Culturable Command Area (CCA) of 32372 Ha at Village Rigaon, Tehsil Muktainagar District Jalgaon (Maharashtra) by M/s Tapi Irrigation Development Corporation)] is under finalization.

**Agenda item No. 46.2**

**Brahmagavhan Lift Irrigation Scheme III undertaken (12, 500 Ha CCA) in an area of 3007.2 ha at Village Old Lakhmapur, Tehsil Gangapur, District Aurangabad, Maharashtra by M/s Godavari Marathwada Irrigation Department Corporation – Environmental Clearance (EC) – reg.**

**[Proposal No. IA/MH/RIV/263338/2020; F. No. J-12011/12/2020-IA.I]**

**46.2.1:** The proposal is for grant of Environmental Clearance (EC) to Brahmagavhan Lift Irrigation Scheme III undertaken (12, 500 Ha CCA) in an area of 3007.2 ha at Village Old Lakhmapur, Tehsil Gangapur, District Aurangabad, Maharashtra by M/s Godavari Marathwada Irrigation Department Corporation.

**46.2.2.** The proposal was last considered by the EAC in its 26<sup>th</sup> meeting held on 8.04.2022, wherein the EAC deferred the proposal for want of additional information. The project proponent has submitted point wise reply as under:-

<b>Sr. No.</b>	<b>ADS Points</b>	<b>Compliance</b>	<b>Observation of the EAC</b>
1.	The Base line data collected for avian species should be authenticated by the concerned forest and Wildlife Department. Provide details of migratory bird species in the region.	The baseline data collected for avian species & Wildlife management plan is approved by O/o Principal Chief Conservator of Forests (HoFF), Maharashtra State dated 16/01/2023. The letter of the same	The EAC suggested to submit revise Wildlife Management Plan to concerned forest and Wildlife Department as discussed during the EAC meeting.
2.	Submit Wildlife Management Plan focusing on avifauna in consultation with reputed expert institutes duly		

	approved by the concerned forest and Wildlife Department.	is enclosed. The submitted & approved wildlife management/ Conservation Plan is attached.	
3.	Impacts analysis report be prepared keeping in view the possible extent of habitat degradation and habitat fragmentation during construction phase and operational phase in consultation with WII.	Impact Analysis documents is attached. The impact analysis was done by ERFEA.	The EAC suggested to get the acceptance of report from WII.
4.	Details of project components falling inside Jayakwadi Bird Sanctuary.	Total 4.45 Ha land will be fall inside Jayakwadi Bird Sanctuary. Detail of Project components has submitted.	
5.	Environmental Cost Benefit Analysis shall be done in terms of loss of Forest ecosystem, loss of biodiversity, water availability/water uses for irrigation and Ecological flows due to Construction of the project.	Environmental Cost benefits analysis has been submitted.	
6.	Details of muck management such as dumping sites and its locations, transportation plan along with monitoring mechanism for muck transportation, raw material transportation, detailing the road map of project construction site/ indicating the distances from HFL, river, project construction site along with types of road etc.	Muck management plan has been submitted	
7.	Details of the name and number of posts to be engaged by the project proponent for implementation and monitoring of environmental parameters be provided.	The Environmental Cell for implementation and monitoring of environmental parameters has been submitted.	

8.	Pre-DPR Chapters viz., Hydrology, Layout Map and Power Potential Studies duly approved by CWC /CEA shall be submitted.	Pre-DPR Chapters has been submitted. The recommendation letter from Executive Director, Godavari Marathwada Irrigation Development Corporation, Aurangabad was submitted to Water Resource Department, Mantralaya, Mumbai dated 12/12/2023 for Administrative approval.	
9.	Time bound action plan with budget allocation for addressing the public hearing issues.	Action Plan & Budget allocation for public hearing issues attached as <b>Annexure XI.</b>	The EAC suggested to submit revise plan. The Project proponent has submitted revise plan as under:-

**46.2.3:** The Project Proponent and the Consultant M/s. SD Engineering Services Pvt. Ltd, made a detailed presentation on the salient features of the project and informed that:

- i. The proposed project of M/s. Brahmagavhan Lift Irrigation Scheme- III [BLIS] is a major project is being undertaking by M/s Godavari Marathwada Irrigation Department Corporation [GMIDC] on Jayakwadi Reservoir in Godavari Basin for Drought prone areas.
- ii. Terms of Reference (TOR) for undertaking detailed EIA Study in accordance with the provisions of the EIA notification by MoEF&CC vide its letter dated 30<sup>th</sup> September, 2020.
- iii. The project falls within 10 km distance of Jayakwadi Bird Sanctuary & as per Gazette Notification issued on 12<sup>th</sup> July 2017 which is protected area notified under the Wildlife (Protection) Act, 1972; hence, as per EIA Notification 2006, general conditions, the project shall be appraised at Central Level under Schedule 1(c) of EIA notification & its subsequent amendments.
- iv. **Project Location:** This scheme is proposed on Backwater of Jayakwadi Project near old Lakhmapur Village of Ganagpur Talukain Aurangabad District (Latitude 19°39'0.36"N and Longitude 75°03'23.04" E). The area served can be located in Toposheet No 47M/1&47M/2 under Jayakwadi Dam Project.

- v. It is planned to bring around 10000 Hectare Irrigable Command Area & 12500 Ha CCA of 40 Villages of Gangapur Taluka in Aurangabad District under irrigation. The water will be utilized for irrigation purpose by adopting drip irrigation with piped conveyance system.
- vi. This scheme comprises lifting of water in two stages. First pump house is proposed at old Lakhmapur Village situated near backwater of Jayakwadi Dam and towards 5 Km East from Aurangabad – Ahmednagar Highway. First or Second pump house is to be located on the upstream side of Jayakwadi Dam at a distance of about 50 Km.
- vii. Rising main of stage-1 is designed as 21.78 Km long with pipe diameter of 1580 mm and thickness of 9 mm for carrying the design discharge of 4.09 cumecs whereas rising main of stage-2 is designed as 13.02 Km long with pipe diameter of 1170 mm and thickness of 7 mm for carrying the design discharge of 2.25 cumecs. Thus the total length of rising main comes out to be 34.80 Km.
- viii. The silent features of the proposal is as under:-

**EAC Meeting Details:**

EAC Meeting/s	46 <sup>th</sup>
Date of Meeting/s	15.05.2023
Date of earlier EAC meetings	26 <sup>th</sup> EAC Meeting Dated 08.04.2022

**Project Details:**

Name of the proposal	Brahmagavhan Lift Irrigation Scheme III
Proposal No	IA/MH/RIV/263338/2020.
Location (including Coordinates)	At. Village Old Lakhmapur, Tehsil-Gangapur, District - Aurangabad, Maharashtra. Co-ordinates of Project: 19°36'35.90"N 75° 4'9.56"E
Company's Name	Executive Engineer, Minor Irrigation- Division-1, Water Resources Dept. (Government of Maharashtra), Sinchan Bhavan Area, Jalna Road, Aurangabad, Pin- 431 005.
CIN no of Company /user agency	NA (Govt. Organization)
Accredited Consultant and certificate No	NABET/EIA/2023/SA 0166
Project location (coordinates/River/Reservoir)	Project is situated on Backwater of Jayakwadi Reservoir. Initial part of the Project is located within the protected area. Co-ordinate of the Pump house No. 1 of the Project : 19°36'35.90"N 75° 4'9.56"E
Type of hydroelectric project	NA

Seismic Zone	Zone - II
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**Category details:**

Category of the project	A (1(c) River Valley Projects)
Capacity/Cultural Command Area (CCA)	12500 Ha.
Attracts the general conditions (yes/no)	Yes
Additional Information	EC for Irrigation Project

**EC Details:**

ToR Proposal No	IA/MH/RIV/162989/2020.
EAC Meeting Date	29.07.2020
ToR Letter No.	No.J-12011/12/2020 IA-I
ToR Grant Date	30.09.2020
Cost of project	426.26 Cr.
Total area of Project	6 ha. Land required only for the construction of pump house 1, Pump house 2, Delivery chamber 1 and 2, approach road, green belt development purposes.
Height of Dam from River Bed (EL)	Not applicable (This Project is only for lift Irrigation Scheme)
Details of Submergence area	NA (The project does not involve submergence and no forest land is requiring for the project)
Districts to provide irrigation facility (if applicable)	Aurangabad (MS)
Details of tunnels on upper level and lower level and length of canal (if applicable)	Not applicable (Total length of pipeline ( in meter)- 34800)
No. of affected village.	Not applicable (There is no rehabilitation & resettlement issue; land envisaged for the proposed project does not contain any habitation).
No. of affected Families	Not applicable (The proposed project does not involve displacement of the families/houses for the project activities.)
Project Benefits	Under this scheme 10000 Ha (ICA) & 12500 (CCA) will irrigate permanently. The drought prone areas will convert into irrigable areas. Water for drinking purposes to animals, wild life made available throughout the year. The important Project benefits will be for Farmers which is in DPP Area & for Eco-system of which will developed after completion of said project.
R & R details	There is no rehabilitation & resettlement issue; land envisaged for the proposed project does not contain any habitation. The proposed project

	does not involve displacement of the families/houses for the project activities.
Catchment area/Command area	Command area for this project is 10000 Hectare & 12500 Ha of CCA of 40 Villages of Gangapur Taluka in Aurangabad District under irrigation.
Types of waste and quantity of generation during construction /Operation	Solid waste shall be generated as domestic solid waste from the workers area. Solid waste shall be stored separately and send to the waste management authority.
Material used for blasting and its composition as per DGMS standards.	Not applicable as this is irrigation project by lifting water from Jayakwadi dam which is already developed.
E flow for the project	Not applicable
Is Projects earlier studied 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.	Not applicable

#### **Electricity generation capacity:**

Powerhouse installed capacity	Not applicable. (This Project is only for lift Irrigation Scheme & the requirement of Electricity will be 33KV Line/6.6 KV (for Operation phase Source: Maharashtra State Electricity Distribution Co. Ltd.)
Generation of electricity Annually	Not applicable.
No. of Units	Not applicable.

#### **Muck Management Details:**

No. of proposed disposal area (type of land forest/Pvt. land)	Total excavation volume from proposed work in this project has been calculated, which will be 511023 cum. The One-hectare land will be used for disposal of muck. The land is owned by project proponent close to the project site. The details are given in ADS Reply
Cross section of proposed muck area, Height of muck with slope.	The maximum height of storage muck shall be 8m & side slope shall be 2:1.

Distance of muck disposal area (location) from muck generation sources (project area) / River, HFL of proposed muck disposal area.	The disposal site is adjacent to proposed project site.
Total muck disposal area	1 hectare.
Estimate Muck to be generated	511023 (In cube meter)
Transportation	The transport shall be by use of dumpers.
Monitoring mechanism for Muck Disposal Transportation	The disposal of muck has to be scientifically planned keeping in view the maximum reutilization of muck in construction. Reutilization would reduce/eliminate the transportation, storage and other pollution load on environment due to substantial amount of muck excavated from foundation and laying of underground pipeline. Muck could also be utilized for back filling and filling the gabions used for slope protection works.

#### Land area Breakup:

Private land (Ha)	6
Government land / Forest land	Govt. Land & No forest Land involved in this project.
Submergence area/Reservoir area	Not applicable.
Land required for project components	The land is required for the development of Pump house-1 (Switch yard), Pump house-2, Delivery chamber-1 and 2, approach roads & green belt development purposes.
Additional information (if any)	The land for the rising mains (34.8 km) has to be temporary acquired on rental basis during the tenure of construction period. This land to be acquired on rental basis comes out to be 35 Ha and paid Rs. 0.49 Cr. annually among all beneficiaries.

#### Presence of environmentally Sensitive areas in the study area:

Forest Land / Protected Area/ Environmental Sensitive Zone	Yes/ No	Details of certificate /letter/Remarks
Reserve Forest/Protected Forest land	No	NA
National Park	No	NA
Wildlife Sanctuary	Yes	Jayakwadi Bird Sanctuary (10 <sup>th</sup> October, 1986)
Archaeological sites monuments/historical temples etc.	No	NA

Additional information (if any)	Yes	Eco sensitive zone is declared for Jayakwadi Bird Sanctuary on 12 <sup>th</sup> July 2017. As per condition given in the ToR. PP already submitted the application to obtain wildlife clearance from NBWL. (Proposal No.: FP/MH/IRRIG/5828/2021). The SBWL recommended the proposal to NBWL.
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### Public Hearing (PH) Details:

Advertisement for PH with date	12/11/2021
Date of PH	14/12/2021
Venue	At Aarapur, Gut No.34, South side of Aurangabad-Mumbai Highway, Gawali Shivra road, Ta. Gangapur, Dist-Aurangaba.
Chaired by	Additional District Collector, Aurangabad
Main issues raised during PH	All participant including Framers given their positive response to this proposed Irrigation Project. During conclusion of PH, presenter requested all to raise their hands in support of the project. After that the people were inclined to protest in favor for project No hand raised Against the project. Farmers requested to used Barren (Gayran) land which is available with Gram Panchayats, can be used for planation.
No of people attended	171

### Brief of baseline Environment:

Particulars	Details
Period of baseline data collection / Sampling period	Winter- Dec 2020 to Feb 2021, Summer-March 2021 to May 2021 & Monsoon- June 2021 to Aug 2021
(Air, Noise, water land)	<p>The Ambient Air Quality (AAQ) &amp; ambient noise was monitored during Winter- Dec 2020 to Feb 2021, Summer- March 2021 to May 2021 and the Monsoon- June 2021 to Aug 2021.</p> <ul style="list-style-type: none"> <li>i) AAQ monitored at 08 locations</li> <li>ii) Ambient noise at 08 locations</li> <li>iii) Soil samples monitored at 10 locations</li> <li>iv) Surface water quality was monitored at 10 locations</li> <li>v) Ground water quality was monitored from 10 locations</li> </ul>



	The results obtained to all parameters found within the permissible limits.
Flora and Fauna of the project area,	The flora and fauna was studied from study area and there is no species found in the category of Rare, endangered, critically endangered, endemic and vulnerable. <ul style="list-style-type: none"> <li>• 18 species of butterfly were observed from four different families in the study area.</li> <li>• 66 bird species belonging to 36 families were recorded in the study area</li> </ul>
Aquatic ecology etc.	For aquatic quality, 10 Samples were collected & analyzed for the species identification & count. Phytoplankton species from the family of Chlorophyceae, Bacillariophyceae, Cynophyceae, Euglenophyceae were found & zooplanktons species from the family of Rotifera Cladocera, Copepoda & Ostracoda were found. <p>Fish : A survey has been conducted on the fishes of Jayakwadi Dam which is situated on south west side of the project site. Data was also collected from the Local fishermen about Fish diversity and fish production in the study area. During public consultation with the fishermen community it was documented that species Rohu (labeo rohita), Catla (Catla catla), Mrigal (Cirrhinus mrigala), Common carp (Cyprinus carpio), Dokrya (Chana gachua) and Chana punctatus are observed in the study area.</p>
Brief description on hydrology and water assessment as per the approved Pre-DPR	The Aurangabad district area is included in Deccan Trap ground province comprising of hard rock basalt formation. The basaltic aquifers are regarded as anisotropic because of variability in type morphology and geohydrology of basaltic lava flows; the presence of dykes, lava tubes and the unpredictable patterns of vascularity weathering and jointing with respect to their extent and thickness, as also to the frequency and inter-connections of joints.
Additional details (if any)	Not Applicable

**Court case details:**

Court case	No court case has been filed or no pending court case with this project.
Additional Information (if any)	Not Applicable

### Status of other statutory clearances:

Particulars	Letter no. and date
Status of stage –I FC	Not Applicable
Approval of Central Water Commission	Not Applicable
Approval of Central Electricity authority	Not Applicable
Additional details (if any)	Not Applicable
Is FRA (2006) done for EC-I.	Not Applicable

### Details of EMP

Activities	Capital cost (Cr)	Recurring cost (Lakhs/Annum)
Construction phase	0.93	0
Operation phase	1.03	10

#### 46.2.4: The EAC during deliberations noted the following:

The proposal is for grant of Environmental Clearance (EC) to Brahmagavhan Lift Irrigation Scheme III undertaken (12, 500 Ha CCA) in an area of 3007.2 ha at Village Old Lakhmapur, Tehsil Gangapur, District Aurangabad, Maharashtra by M/s Godavari Marathwada Irrigation Department Corporation.

The project/activity is covered under Category 'B' of item 1 (c) 'River Valley projects' of the Schedule to the Environmental Impact Assessment Notification, 2006, as amended, however, due to applicability of 'General Condition' i.e. Wildlife Sanctuary (Jayakwadi Bird Sanctuary) is within 10 km radius of the project, the proposal appraised at Central level by the sectoral EAC in the Ministry as Category 'A'.

This scheme comprises lifting of water in two stages. First pump house is proposed at old Lakhmapur Village situated near backwater of Jayakwadi Dam and towards 5 Km East from Aurangabad – Ahmednagar Highway. First or Second pump house is to be located on the upstream side of Jayakwadi Dam at a distance of about 50 Km. The total cost estimated for the proposed project is Rs. 426.26 Cr.

Rising main of stage-1 is designed as 21.78 Km long with pipe diameter of 1580 mm and thickness of 9 mm for carrying the design discharge of 4.09 cumecs whereas rising main of stage-2 is designed as 13.02 Km long with pipe diameter of 1170 mm and thickness of 7 mm for carrying the design discharge of 2.25 cumecs. Thus the total length of rising main comes out to be 34.80 Km.

The terms of reference (ToR) for undertaking detailed EIA Study in accordance with the provisions of the EIA notification by MoEF&CC vide its letter dated 30<sup>th</sup> September, 2020. The public hearing was held on 14<sup>th</sup> December, 2021. All participant including Framers given their positive response to this proposed Irrigation Project. During conclusion of PH, presenter requested all to raise their hands in support of the project. After that the people were inclined to protest in favor for project No hand raised Against

the project. Farmers requested to use Barren (Gayran) land which is available with Gram Panchayats, can be used for plantation.

As suggested, the project proponent submitted the time bound action plan on the issues raised during public Hearing held on 14-12-2021 as under:-

Memo- r andum No.	Memorandum from	Villag e Name	Comman issues raised by peoples during the public hearing	Time bound action Plan for the issues raised.		
				Activity proposed	Cost Requi red (Rs. in lakh)	Time Required after actual initiation of project
1	1. Rameshwar Gangadhar Peherkar, 2. Ashok Sukhdev Pawar. 3. Harishchandra Bhausahab Peherkar And 43 others	Yesga on	1) Positive Response and Support from the beneficiries, farmers	1) To complete the project components step by step to supply the water for irrigation purpose which will ultimately help in increase in crop productivity, crop intensity, crop diversification, crop yield which will results in much beneficial to the farmers.  2) Plantation of the trees on gairan land (land reserved for cattelfeed by the govt.) with the help of Grampanchayat, NGOs and Govt. Organisations, like social forest dept.  3) Development of the green belt around the land acquired for the project by planting	42626 .0	5 yrs
2	1. Badrinath Lakshman Raut. 2. Santosh Karbhari Jadhav. 3. Bhausahab Raut. And 17 others	Daheg aon	2) After completi on of this scheme, there will be increase crop productivit y and crop yield. Ultimately increase in economic standard.			
3	1. Sawaliram Bhanudas Thorat. (Member of Panchyat Samiti, Gangapur)	Ambe gaon				
4	1. Ramhari Rangnath Narode. (Sarpanch, Vasusaygaon)	Vasus aygao n				
5	1. Mrs. Kalpana Sandip Patekar. (Sarpanch, Turkabad (kha.))	Turkab ad (kha)	3) Increases living standard of the farmers socially, economic ally &			
6	1. Pandharinath Gawali. 2. Krushna Gawali. 3. Sameer Shaikh and 90 others	Gawali shivar a				
				11.00	3 yrs	

7	1. Pratap Shivnath Pawar. 2. Gajanan Uttam Pawar. 3. Dnyeshwar Shivnath Pawar and 45 others	KanKori	education al.  4) As there will be conservati on of environme nt, so no harmful effect on environme nt.	trees. The proposed planting will increase the nesting and roosting sites for different migaratories as well as local species.	25.00	5 yrs
8	1. Santosh Patil Jadhav(Vajanapurkar).(Chairman, Finance and Building work, District Council, Aurangabad and Chairman, Panchayat Samiti, Gangapur.) And 46 others	Vajana pur	5) Controlled polution	4) Training programmes shall be arrange through the Dept. of Agriculture to the farmers to grow fruit bearing trees which will help the farmers economically as well as which will help as a food for the birds and species	25.00	3 yrs. after start of irrigation
9	1.Gautam Murlidhar Jadhav. 2. Machindra Lakshman Dabhade. 3. Sandip Prasdhan and 40 others	Ambe mohal	6) Availability of drinking water for the peoples as well as for the birds and wild lifes in the command area.		25.00	3 yrs. after start of irrigation
10	1. Babasaheb Ramnath Thokal. 2. Dnyashwar Lakshman Narode. 3. Prabhakar Balu Pawar. And 81 others	Vasus aygao n				
11	1. Vijay Jagannath Thorat. 2. Nawnath Premraj Thorat. 3. Anil Ashok Thorat. And 41 others	Khada knaral a	7) Increase in small scacle businesse s.	5) We will ask Water Conservation Dept. to construct small ponds on the local nala's which will help as a drinking water for the birds and wild life in the command areas.	200.00	5 yrs
12	1. Abdul Galur Shaikh. 2. Jalil Aakbar Shaikh. 3. Sandip Kashinath Gawali. And 38 others	Phulsh ivara	8) Increase in employe nt			

13	1. Nilesh Popat Satpute. 2. Aafasar Kadar Shaikh. 3. Eslam Kasam Shaikh. And 61 others	Gawali Dhano ra		6) Budget provision will be made available for metegation of the wild life management plan through the wild life forest dept.	800.00	5 yrs
14	1. Navnath Onkar Gayake. 2. Vijay Sonaji Gayake. 3. Nanasaheb Shankarrao Gayake. And 48 others	Sulata nabad		7) We will engaged environment experts consultant / experts institutes for the guidance of maintenance of the eco-system of the project during the construction of the project work.	25.00	
15	1. Alim Rasul Shaikh. 2. Taterao Kadu Padhade. 3. Bhimrao Ashok Shewale. And 50 others	Dhore gaon				
16	1. Gokul Machindra Bobade.2 .Ramji Dashrath Sonwane.3. Suresh Lakshmanrao Jadhav. And 88 others	Aarap ur				
17	1. Kisan Karbhari Kadam. 2. Shravan Hiralal Kadam. 3 .Vasantdada Battise. And 42 others	Borag aon				
18	1. Lakshman Pathe. 2. Sanjay Rajule. 3. Raosaheb Pawar. And 23 others	Muram i				

**46.2.5:** The EAC after detailed deliberation on the information submitted and as presented during the meeting **recommended** for grant of Environmental Clearance (EC) to the project for Brahmagavhan Lift Irrigation Scheme III undertaken (12, 500 Ha CCA) in an area of 3007.2 ha at Village Old Lakhmapur, Tehsil Gangapur, District Aurangabad, Maharashtra by M/s Godavari Marathwada Irrigation Department

Corporation under the provisions of EIA Notification, 2006, as amended subject to compliance of Standard EC condition along with the following specific conditions:

- i. Wildlife conservation plan focusing on nesting, breeding and survival of threatened and endangered bird species, duly vetted by Wildlife Institute of India, shall be implemented.
- ii. Nesting Platform made by concrete material/ latest fiber material for different birds shall be made.
- iii. Extensive Plantation of indigenous plant species with 90 % survival rate shall be done within 10 km radius of the project in association with State Forest Department. A time bound action plan shall be prepared in this regard. Plant Survival status report shall be submitted to the IRO along with 6 monthly compliance report.
  - i. Project specific Environment Management Cell shall be created with Environmental Manger having post graduate degree in environmental sciences/Environmental Engineering to monitor implementation of Environment Management Plan in the project. The Environment Manager shall report to the Project Head directly to ensure effective implementation of plantation program and other environmental management activities. The functioning of the Environment Management Cell shall be reviewed monthly and record be maintained and submitted with 6 monthly compliance report.
  - ii. The Environmental Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP report. The budgetary provisions for implementation of EMP, shall be fully utilized and not to be diverted to any other purpose. In case of revision of the project cost or due to price level change, the cost of EMP shall also be updated proportionately.
  - iii. PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground).
  - iv. Solid waste generated, especially plastic waste, etc. should not be disposed of as landfill material. It should be treated with scientific approach and recycled. Use of single-use plastics may be discouraged.
  - v. Under CER activities, preference should be given to strengthen the basic amenities in the project affected villages like providing and maintaining drinking water supply, providing health care facilities, etc.
  - vi. Preference to be given to the local villagers as per the requirements and suitability, in the job/ other opportunities in the project, etc.

- vii. Measures to be taken to develop skills of the local villagers particularly with respect to the trades related to construction works such as electrician, welder, fitter, etc.
- viii. After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment. The study shall be undertaken by an independent agency.
- ix. Necessary control measures such as water sprinkling arrangements, and construction of paved roads leading to muck disposal sites etc. shall be taken up on priority to arrest fugitive dust at all the construction sites.
- x. Stabilization of muck disposal sites using biological and engineering measures shall be taken up immediately to ensure that muck does not roll down the slopes and shall be disposed safely and that it does not pollute the natural streams and water bodies in surrounding area. Report of the same to be submitted to Ministry and its Regional office.
- xi. The minimum Environmental flow for the project shall be maintained as per the direction given by the Hon'ble NGT vide its Order dated 09.08.2017 in the matter of Pushp Saini Versus Ministry of Environment, Forest & Climate Change.
- xii. The Multi-Disciplinary Committee needs to be constituted and the meeting needs to be held at regular interval.
- xiii. Necessary permission to be obtained for quarrying construction materials for the project as per the EIA Notification, 2006 and subsequent amendments thereof.
- xiv. Land acquired for the project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.

The meeting ended with vote of thanks to the Chair.

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**ANNEXURE****ATTENDANCE LIST**

<b>S. No</b>	<b>Name&amp; Address</b>	<b>Role</b>	<b>Attendance</b>
1.	Dr. Uday Kumar R.Y.	<b>Chairman</b>	P
2.	Dr. A. K. Malhotra	Member	P
3.	Shri Sharvan Kumar	Member (Representative of CEA)	P
4.	Shri Ashok Kumar Kharya	Representative of CWC	P
5.	Dr. A. K. Sahoo	Representative of CIFRI	P
6.	Dr. J. A. Johnson	Member	
7.	Shri Yogendra Pal Singh	Member Secretary	P



## **APPROVAL OF THE CHAIRMAN**

**From:** [kgopa@iisc.ac.in](mailto:kgopa@iisc.ac.in)

**To:** "Yogendra Pal Singh" <[yogendra78@nic.in](mailto:yogendra78@nic.in)>

**Cc:** "Saurabh Upadhyay" <[saurabh.upadhyay85@gov.in](mailto:saurabh.upadhyay85@gov.in)>

**Sent:** Tuesday, June 6, 2023 10:33:04 AM

**Subject:** Re: Draft MOM of 45th & 46th EAC meeting- reg.

Dear Sir

Yes I approve this. Kindly take the others opinion also before we upload it.

With warm regards

Prof. K.Gopakumar, FIEEE, FNAE

DESE, Indian Institute of Science

Bangalore-560012, INDIA