

BY SPEED POST

EP/12.1/394/AP | 0942
Government of India
Ministry of Environment, Forests and Climate Change
(Regional Office - Chennai)

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Dated: 20th June 2018

To

The Chief Engineer
Indira Sagar (Polavaram) Project
Dowlaiswaram-533125
East Godavari District, AP
Ph.0883-2417318, 2417319

ff

Subject: Indira Sagar (Polavaram) Multipurpose Project in West Godavari District
Andhra Pradesh - regarding.

Reference: No J - 12011/74/2005-IA.1, Dt.25.10.2005

Sir,

With reference to the project cited above, monitoring was carried out on 14th to 16th March, 2018. The major observations made during the visit are as follows:

5. Personal Protective Equipment is being not used by the personnel engaged in the work of Left and Right Bank Canals.
6. Dust emissions are not controlled properly;
7. Infrastructure facilities like proper accommodation, toilets, and medical needs are not being provided to the personnel engaged in the work of Left and Right Bank Canals.; and
8. Excavated mucks are not stored properly.

2. In this regard you are directed to comply with the above mentioned observations

Yours faithfully,

ofc

[Signature]
(Dr. C. Kaliyaperumal)
Director

DESPATCHED (BY SP)
Date: 22/6/18 *RS*

Monitoring Report

Sub: Indira Sagar (Polavaram) Multipurpose Project in West Godavari District Andhra Pradesh.

Ref: J - 12011/74/2005-IA.1, Dt.25.10.2005 & Lr.No.J - 120011/40/2002-IA-1, Dt.25.04.2006

Date of site inspection: 14th to 16th March, 2018.

PART- I

DATA SHEET

(As furnished by the Project Proponent)

1	Project Type River valley / Mining / Industry / Thermal / Nuclear / Other Specify	:	River valley
2	Name of the project	:	Indira Sagar (Polavaram) Multipurpose Project in West Godavari District Andhra Pradesh
3	Clearance letter(s) / OM No. and dated	:	EC letter No J - 12011/74/2005-IA.1, Dt.25.10.2005 & Lr.No.J - 120011/40/2002-IA-1, Dt.25.04.2006.
4	<u>Locations</u>	:	
	a. Taluk(s) District	:	Enclosed as Annexure-I
	b. State (s)	:	
	c. Latitudes / Longitudes	:	
5	<u>Address of correspondence</u>	:	
	a. Address of concerned project Chief Engineer (with Pin Code & telephone / telex / fax numbers)	:	The Chief Engineer Indira Sagar (Polavaram) Project Dowlaiswaram-533125 East Godavari District, AP Ph.0883-2417318, 2417319 Fax. 0883-2417482
	b. Address of Executive Project Engineer/ Manager (with Pin Code/fax numbers)	:	The Superintending Engineer Indira Sagar Head Works Circle Polavaram-534315 West Godavari District, AP Ph. 08811-251054 Fax. 08811-251028
6	<u>Salient features:</u>	:	
	a. Salient features of the project	:	Enclosed as Annexure-I
	b. of the environmental management plans	:	Enclosed as Annexure-II
7	<u>Breakup of the project area:</u>	:	

	a	Project area	:	Enclosed as Annexure-III
8		Break up of project affected population with enumeration of those losing houses / dwelling units only, agricultural land only, both dwelling units and agricultural land and landless labourers / artisans		Enclosed as Annexure-IV
	a	SC,ST/Adivasis	:	Enclosed as Annexure-IV
	b	Others	:	Enclosed as Annexure-IV
9		<u>Financial Details:</u>		
	a	Project cost as originally planned and subsequent revised estimates and the years of price reference	:	Total project cost as specified in EC granted: Rs.9072 crore.
	b	Allocations made for environmental management plans, with item wise and year wise breakup	:	Enclosed as Annexure-V(a) to V(b)
	c	Benefit cost ratio / internal rate of return and the years of assessment	:	---
	d	Whether (c) includes the cost of environmental management as shown in (b) above	:	---
	e	Total expenditure on the Project so far	:	Rs.13053.91 crore.
	f	Actual expenditure incurred on the environmental management plans so far	:	
10		<u>Status of construction:</u>		
	a	Date of commencement	:	March, 2005.
	b	Date of completion (actual and / or planned)	:	2019 (planned).
11		Reasons for the delay if the project is yet to start.	:	NA
12		<u>Date of site visit:</u>		
	a	The dates on which the project was monitored by the Regional Office on previous occasions, if any	:	21 st and 22 nd , November, 2006.
	b	Date of site visit for this monitoring report	:	14 th to 16 th March, 2018.
13		Details of correspondence with project authorities for obtaining action plans, information and status of compliance to safeguards	:	NA

Monitoring Report

Part-II

Sub: Indira Sagar (Polavaram) Multipurpose Project in West Godavari District Andhra Pradesh.

Ref: J - 12011/74/2005-IA.1, Dt.25.10.2005 & Lr.No.J - 120011/40/2002-IA-1, Dt.25.04.2006

About the Project:

The Polavaram Irrigation project is to construct a dam on the River Godavari, near Polavaram village about 34 Km upstream of Kovvur, Rajhundry and the construction of two Main Canals each on the left and right bank of the river. The project is a multipurpose project by way of providing irrigation facilities to 2.91 lakh hectares of land in Visakhapatnam, East Godavari Districts under Left Main Canal and West Godavari, Krishna District under Right Main Canal, generation of 960 MW Hydro electric power, to augment the water supply to Krishna basin by diverting 80 TMC of water through Right Main Canal and to supply water for industries in Visakhapatnam Township. Moreover the project provides drinking water facilities to 540 enrooted villages covering 25 lakhs population.

Present Status of the Project:

The project was visited from 14th to 16th March, 2018 by Dr. C. Kaliyaperumal, Director, MoEFCC, Dr. K .G. Prijilal, Research Officer, MoEFCC along with officials from Irrigation Department, Revenue Department, Government of Andhra Pradesh. The team visited the Head work site and Rehabilitated villages in Polavaram, Left Main Canal and Right Main Canal.

The three component of the project are Head Work-Main Dam, Right Main Canal and Left Main Canal. 91.0% of the work in Right Main Canal, 59.6% of the work in Left Main Canal and 41.2% of the work in Head Work-Main Dam has been completed. Overall 54.4% of the project works have been completed as on the date of inspection and the remaining works are under progress. The Resettlement and Rehabilitation process is in progress and the detailed status of R&R as on the date of inspection is furnished at Annexure-VI. The photographs taken during the visit showing the progress of the works are furnished at Annexure-VII.

Part- A : Specific Conditions:-

Sl.No	Conditions	Compliance
(i)	34500 ha. Degraded area shall be brought under CAT (Biological), In addition to this, gully plugs, check dam, percolation tanks etc., will also be done under Engineering measures.	Agreed to comply. Funds Rs. 21.05 Crores is transferred to State Forest Department for implementing the same. However physical progress made in this regard is not provided. Agreed to provide the same at the earliest.
(ii)	Total 1,93,357 persons are likely to be affected by this project, out of that 1,75,275 persons in Andhra Pradesh and 6316 persons from Odisha and 11,766 are from Chhattisgarh. The Project affected families will be rehabilitated as per Andhra Pradesh Government's R & R policy 2005 and same package also should be provided for the project affected persons from the Odisha and Chattisgarh State.	Being complied. The implementation of Resettlement and Rehabilitation plan for project affected families is under progress. So far 8727 persons out of 187187 have been rehabilitated in 7 R&R centers and Rs.448.56 Crores has been spent towards R&R. Agreed to complete the R&R well before actual impoundment of water in the reservoir. The protective embankments are proposed to be constructed in the territories of Odisha and Chattisgarh to avoid any sort of Submergence, hence no need of implementation of R & R Policy in Odisha & Chattisgarh States. The Polavaram Irrigation Project level Rehabilitation and Resettlement Committee (including local community and social workers) was constituted under new LARR act 2013 on 24.01.2015.
(iii)	A monitoring committee should be constituted which must include representatives of project affected persons from SC/ST category and a women beneficiary. The committee would also attend the Grievance Redressal of the affected peoples	A monitoring committee has already been constituted vide G.O.Ms No. 637, Dt.9.5.2005. Project level monitoring meetings were held on 18.9.2009, 09.12.2011, 03.12.2012, 20.11.2013 and 29.06.2013 with the concerned authorities. Weekly review meetings are being conducted by the District Collector, West Godavari District on implementation of R & R. The Polavaram Irrigation Project level Rehabilitation and Resettlement Committee (including local community and social workers) was constituted under new LARR act 2013 on 24.01.2015 and meetings were conducted on 27/07/2017 in West Godavari District and on

		08/08/2017 in East Godavari District.
(iv)	Commitment made during Public hearing by the Project authority on different issues should be fulfilled	Agreed to implement all the commitments made during public hearing.
(v)	Forest Clearance should be obtained for acquiring 3279 hectare forest land & submitted.	The Ministry of Environment and Forests has cleared the proposal for diversion of 3,731.07 Ha. of Forest land for the Indira Sagar Polavaram Project vide F.No. 8-123/2005-FC, dt.28.07.2010.
(vi)	As proposed a fish ladder would be constructed for migration of fishes.	The Fish ladder provision is being made in Spillway in consultation with Central Inland Fisheries Research Institute (CIFRI) Barrackpore
(vii)	Occurrence of stagnant pools /slow moving water channels during construction and operation of the Project providing breeding sources for vector mosquitoes and other parasites. The river should be properly channelized so that no small pools and poodles are allowed to be formed. Even after taking precaution, due to unforeseen situation, breeding of mosquito and resultant malaria or mosquito born diseases can increase. If such a situation arises, it will be the responsibility of project authorities to take all corrective steps i.e., residual insecticidal spray in all the project impact area and surrounding 3 km area keeping the flight range or mosquitoes in consideration.	During the visit, the team was not observed water stagnation and noticed that measures were taken to comply the condition.
(viii)	Any other clearance from any other organization if required should be obtained.	All the required clearances have already been obtained.

Part-B. General conditions:

Sl. No	Conditions	Compliance
(i)	Provision of supplying kerosene or cooking gas/Pressure Cooker to the labourers should be kept instead of supplying fuel wood.	Provided cooking gas.
(ii)	Fuel depot may be opened at the site to provide the fuel (Kerosene/wood/LPG). Medical facilities as well as recreational facilities should also be provided to the labourers.	As observed above Cooking gas was provided and Health centre has been established at Project site.
(iii)	All the labourers to be engaged for	Health of workers was examined and

	construction works should be thoroughly examined by health personnel and adequately treated before issue the work permits.	treatment were given.
(iv)	Restoration of construction area including dumping site of excavated material at dam site & power house site should be ensured by leveling, filling up of borrow pits, landscaping etc., The area should be properly afforested with suitable plantation.	The restoration work is under progress in some places in the Left Canal, Right Canal and at Dam site. They agreed to restore the remaining area by way of leveling, filling up of borrow pits, landscaping, afforestation etc.
(v)	A multidisciplinary committee should be constituted with representative from the disciplines of forestry, ecology, wildlife, soil-conservation, NGO etc to oversee the effective implementation of the suggested safeguard measures.	Vide G.O.Rt.No.287, Dt.27.04.2016 a Multi disciplinary committee was constituted with representatives from the disciplines of forestry, ecology, wildlife, soil-conservation etc., to oversee the effective implementation of suggested safe guard measures while executing the Project. The 1st meeting of Multi-disciplinary committee was conducted on 15.11.2016 at Project Dam site, Polavaram and the Second meeting was conducted on 07.06.2017.
(vi)	Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.	Financial provision were made in the total budget of the project for implementation of the above suggested safeguard measures. Details are provided in Annexure-V(a) and V(b)
(vii)	Six monthly monitoring reports should be submitted to the Ministry and its Regional office. Bangalore for review.	This is being complied with.

Sl. No	Conditions	Compliance
(4)	Officials from Regional Office MOEF, Bangalore would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the Project proponents during their inspection.	The PA extended full support to the Ministry officials during the visit.
(5)	The responsibility of implementation of environmental safeguards rests fully with the Irrigation Department and Government of Andhra Pradesh.	The Irrigation Department and Government of Andhra Pradesh are implementing the conditions.
(6)	In case of change in the scope of the project, project would require a fresh appraisal.	Agreed upon.
(7)	The Ministry reserves the right to add additional safeguard measures subsequently if found, necessary and to take action including revoking of the clearance under	Agreed upon.

	the provisions of the environmental (Protection) Act,1986,to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	
(8)	This clearance letter is valid for a period of five years from the date of issue of this letter for commencement of construction work.	Agreed upon.
(9)	A Copy of the clearance letter will be marked to concerned Panchayat if any, from whom any suggestion/ representation has been received while processing the proposal.	As stated by the PA, copies of ECs were sent to all the concerned Panchayat.
(10)	State Pollution Control Board/Committee should display a copy of the clearance letter at the regional office, district industries centre and collector's office/Tahsildar's office for 30 days.	Reportedly complied.
(11)	The project proponent should advertise within seven days from the date of issue of the clearance letter, at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the state pollution control board/committee and may also be seen at website of the ministry of environment and forests at http: www.envfor.nic.in/ .	Complied. Advertised in New Indian Express on 29.10.2005 and Telugu version in Eenadu on 29.10.2005.
(12)	Addendum issued by MOEF vide Lr.No.J-12011/40/2002-IA-1, Dt.25.04.2006. Environmental clearance was granted to the Indira Sagar Polavaram Project on 25th October, 2005. On a petition W.P(C) No.3669(2006) filed by Shri Laxman Munda in High Court of Odisha, the Hon'ble High Court in its order Dt.22.03.2006 directed that "It is open to the State of Andhra Pradesh to proceed with the construction of Indira Sagar (Polavaram) Multipurpose Project after complying with the requirements of all laws applicable in this regard, in such manner that no land/village/area situated within the territory of the state of Odisha is submerged."	Agreed to comply. Protective embankments are proposed to be constructed in the territories of Odisha to avoid any sort of submersion and expert appraisal committee (EAC) has approved the proposals vide Lr.No. J - 12011/74/2005-IA.1, Dt.09.03.2009.

Main Observations made during the site Inspection:

1. Personal Protective Equipment are being not used by the personnel engaged in the work of Left and Right Bank Canals.
2. Dust emissions are not controlled properly.
3. Infrastructure facilities like proper accommodation, toilets, and medical needs are not being provided to the personnel engaged in the work of Left and Right Bank Canals.
4. Excavated mucks are not stored properly.

This has the approval of Addl.PCCF(Central) vide diary No 622 dated 01.06.2018.



Dr.C.Kaliyaperumal
Director(S)