

CHENAB VALLEY POWER PROJECTS [P] LTD.

JOINT VENTURE OF NHPC (A GOVT. OF INDIA ENTERPRISE), JKSPDC (A GOVT. OF J&K UNDERTAKING) AND PTC (INDIA) LTD.

PAKAL DUL HE PROJECT, CHENAB NAGAR - II, KISHTWAR, (J&K) - 182206

CIN: U40105JK2011PTC003321 GSTIN: 01AAECC4710GIZD Ph. No. 01995-260661 Fax No. 01995-260661

Dated: 30.11.2018

CVPP/ GM (HQ)/PDHEP/ 2018/ 3485

Additional PCCF (Central)
Northern Regional Office,
Ministry of Environment, Forests and Climate Change, GoI,
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Sub: Pakal Dul HE Project (1000 MW) in District Kishtwar, J&K – Submission of Environment Clearance Compliance Report (ECCR) for the period from April 2018 to September 2018.

Ref: - Environment Clearance granted to the Project vide letter no. J-12011/51/2007-IA dated 29.02.2008 and transferred in favour of CVPP vide letter no. J-12011/51/2007-IA dated 12.07.2012

Sir.

We are enclosing herewith six monthly Environment Clearance Compliance Report in respect of Pakal Dul HE Project for the period from April 2018 to September 2018 for your kind information.

Thanking you and Warm Regards.

Encl: 16 pages including 12 pages Annexure -1

Yours Sincekely.

General Manager (HQ) Pakal Dul H.E. Project

Copy to:

- Dr. S. Kerketta, Director, Impact Assessment Division -1, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi-110003
 Email: s.kerketta66@gov.in, suna1466@rediffmail.com
- 2. Member Secretary, J&K State Pollution Control Board, Parivesh Bhawan, Forest Complex, Gladini, Narwal, Transport Nagar, Jammu (J&K) Email: membersecretaryikspcb@gmail.com
- 3. Chief General Manager, PDHEP, Kishtwar
- 4. General Manager, Planning Division, CVPPPL, Jammu.

Pakal Dul Hydroelectric Project (1000MW)

1. Brief Introduction of Project

Pakal Dul (1000MW) HE Project was initially conceived by NHPC and later on got transferred to Chenab Valley Power Projects [P] Limited (CVPP). CVPP is a Joint Venture Company of NHPC Limited, JKSPDC and PTC (India) Limited incorporated on 13/06/2011 for execution of 03 Hydroelectric Projects namely Pakal Dul, Kiru and Kwar with aggregate installed capacity of 2164 MW at Chenab River Basin in Distt Kishtwar of Jammu & Kashmir, with equity participation of 49%, 49% and 2% by NHPC,JKSPDC & PTC respectively.

Pakal Dul HE Project is proposed on river Marusudar, a tributary of Chenab in district Kishtwar of J&K State. The project envisages construction of a 167 m high Dam, 2 nos. of Head Race Tunnel of 7.20mtr dia and 10 km length, an underground Power House with 4 units of 250 MW each. The annual energy generation will be 3330 MU.

2. Status of Statutory Clearances

Status of statutory clearances is tabulated below:

Techno- Economic Appraisal

Accorded by CEA on 03.10.2006

(TEA)

(Transferred in favour of CVPP on 06.08.2012)

CCEA Approval

Accorded in favour of CVPP on 28.10.2014

Environmental Clearance

Accorded by MoEF to NHPC on 29.02.2008

(Transferred in favour of CVPP on 12.07.2012)

Forest Clearance

Clearance for diversion of 146.66 Ha of forest land

accorded by GoJK on 15.12.2015.

Clearance for diversion of 12.125 ha forest land

accorded by GoJK on 26.06.2018.

Clearance for felling of left out trees on already

diverted forest land accorded on 17.07.2018.

Wildlife Clearance

Clarence for diversion of 195.96 Ha of forest land (188.76 ha wildlife land and 7.2 ha Forest land) accorded by GoJK on 29.11.2016 after grant of approval by Hon'ble Supreme Court of India.

NOC from J&K State Pollution
Control Board

Consent to Establish for Pakal Dul Project issued by J&K State Pollution Control Board in March 2016.

Status of Other Clearances

Clearance from Fisheries Department and clearance from Hydraulic Division (PHE & Irrigation) have been received in the month of February 2016...

NOC from mining department has been obtained on dated 23.02.2017.

R&R Plan

The J&K govt. has approved the Rehabilitation and Resettlement plan of the project vide Govt. Order dated 22.02.2017 and total payment of Rs 29.12 Cr has been released so far in favour of Commissioner Rehabilitation and Resettlement, Pakal Dul HEP (DC Kishtwar) for implementation of RR Plan.

Disbursement of RR benefits is in progress and a payment of Rs 18.36 Crores to Project Affected Families (PAFs) has been made so far.

3. Status of Private Land Acquisition

Final awards for acquisition of Power House area land and Reservoir area land have been accorded. An amount of Rs 72.50 Crores has already been deposited with the Collectorates for disbursement. Out of this, a total payment of Rs. 46.40 Crores (approx.) has been disbursed to land owners comprising Rs. 26.00 cr. for Dam Reservoir area and Rs. 20.40 cr. for Power House area.

4. & Status of Tender/Award

The Hon'ble High Court of J&K pronounced its judgement on 28.01.2017 in favour of CVPP Ltd. wherein cancellation of tenders was upheld. Accordingly, tendering process on Package mode for the Project was taken up in following packages of major works and the present status of the tenders and awarded works is as under:

Naviet



Dam Package

: Dam Package awarded to M/s Jai Prakash Associates Ltd on 21.06.2018 along with Diversion Tunnel and HRT from upstream side. The site has been handed over M/s Jaiprakash Associates Ltd. The Contractor has started the site mobilization and infrastructure works. As on date 1.90 Km access road for Diversion Tunnel inlet side against 4.25Km. is completed & 0.75 Km. road for Diversion Tunnel outlet against 1.20 Km has been achieved. Excavation of over burden material over the portal of Diversion Tunnel inlet work is in progress.

HRT-TBM Package

: Letter of Award for TBM consultancy works has been issued to M/s Amberg on 27.09.2017.

In 43rd meeting Board of Directors decided to go for retendering after reviewing the construction methodology, mode of tendering & estimation of cost in consultation with NHPC to ensure better competition.

Power Package

House: Letter of Award has been issued to M/s Afcons-JAL-JV, on 21.02.2018. Site mobilisation works started by a team of M/s Afcons-JAL-JV w.e.f 15.03.2018. Site handing over activities are completed & 190 mtr. excavation work of Main Access Tunnel completed against the total length of 263 mtr. & 151 mtr. Construction Adit to Power House against the total length of 160 mtr. is completed till date.

HM Package

: Technical bids opened on 26.10.2018 and are under evaluation with TEC.

E&M package

: Proposal for award has been submitted to Board for approval. M/s. Voith Ltd. has emerged as lowest bidder.

Status of other allied infrastructural work of Project.

- 1. Bailey Suspension Bridge of 320 ft length over river Chenab has been commissioned on 14.09.2015.
- 2. Main Access Tunnel (MAT) and Construction Adit to Power House (CAP) Portal works are completed.

- 3. 5.71 Km. road from Bailey Suspension Bridge to HRT (TBM) portal is completed in Power House area.
- The construction of Bhandarkot Bridge has been completed & work on approach road is in progress. The bridge shall be opened for vehicular movement shortly.

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Ph No. 01995-260661 Fax No. 01995-260661

ANNEXURE-I

Six Monthly EC Compliance Report of Pakal Dul HE Project (1000MW), District Kishtwar, J&K (April 2018 to September 2018)

1	Name of Project	Pakal Dul HE Project
2	Type of Project	Hydro Electric Project
	Clearance letters OM No. and date	
	(a) Environment Clearance	(a) Letter no. J-12011/51/2007-IA dated
		29.02.2008 and transferred in favour of
		CVPP vide letter no. J-12011/51/2007-IA-I
		dated 12.07.2012.
	(b) Forest Clearance	(b) Government order no. 334- FST of 2015
		dated 15.12.2015 of GoJK for 146.6613 Ha
	х.	land on Right Bank of river Marusudar.
		Government order no. 289-FST 2016 dated
		29.11.2016 of GoJK and Corrigendum dated
3		26.12.2016 for 195.9619 Ha of Forest land
3		(188.7619 ha of former KHANP land and 7.2
		ha of Forest land) on Left Bank of river
	a a	Marusudar.
		Government sanction order for additional
		12.125 ha of Forest land at left bank of river
THE PARTY OF THE P		Marusudar stands accorded for use of Pakal
		Dul HEP vide Govt. order no 207-FST of 2018
		dated 26.06.2018.
-		Govt. sanction for felling of left out trees
		from the already diverted forest land was
		accorded by GoJK vide Govt. Order No. 225-
		FST of 2018 dated 17.07.2018.



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	Locations		
	(a) District (s)	(a) Kishtwar	
4	(b) State	(b) Jammu and Kashmir	
	(c) Latitude	(c) 33°27'30"N	
	(d) Longitude	(d) 75°48'50"E	
		(u) 73 40 30 L	
	Address for Correspondence		
	(a) Address of concerned Project	(a) Chief General Manger,	
	Head (with Pin code,	Pakal Dul HE Project, CVPP Ltd.,	
	Telephone/Fax no.)	Chenab Nagar-II, Kishtwar, J&K.	
		Pin code- 182206 Telephone:- 01995-260723/9971955066	
		Email:gmpdhep@gmail.com	
5		Littail.gitiputtep@gman.com	
	(b) Address of concerned HOD in	(b) Managing Director,	
	Corporate Office (with Pin code,	Chenab Valley Power Projects (P) Ltd,	
Telephone/Fax no.)		Chenab Jal Shakti Bhawan, Opposite	
	telephone, tax no.,	Saraswati Dham, Rail Head Complex, Panama Chowk,	
		Jammu- 180012, J&K	
		Phone/Fax: 0191 2475516/ 2479835	
	Detail of Environmental Management	Environmental Management Plans to be	
	Plan	implemented at the project are:	
	***	S. No. EMP	
		 Biodiversity Conservation Plan Catchment Area Treatment 	
		3. Fisheries Development	
		4. Public Health Delivery System	
		5. Solid Waste Management	
		6 Provision for fuelwood/ LPG depot &	
6		Energy Conservation Measures	
		7. Relocation & Rehabilitation of Dumping	
		8. Landscaping & restoration of	
		construction areas	
1		9. Creation of Green Belt around reservoir	
		10. Disaster Management Plan	
		10. Disaster Management Plan11. Resettlement & Rehabilitation Plan	



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	Breakup for Project area (Land details)	Forest Land:354.75 ha	
7		Private/ Revenue Land: 139.46	
		Total Land: 494.21 ha	
	Breakup of Project affected population	No of affected villages:- 6	
	with enumerations of those losing	Displaced PAFS:- 104	
	house/dwelling units only, agriculture	Non displaced PAFs:- 656	
8	land only, both house and agriculture	Total PAFs:- 760	
0	land and landless labours/artisans.		
	(a) SC/ST/Adivasis	(a) Scheduled Tribe:- 2	
	(b) Others		
	Financial Details		
	(a) Project cost as originally planned	(a) Project cost: 5088.88 Cr (July 2005 PL)	
	and subsequent revised estimates	CCEA approved: 8112.12 Cr (March 2013 PL)	
	and the year of price reference		
	(b) Actual expenditure incurred on the	(b) Actual expenditure: 994.00 Crs (approx.) (till	
	Project so far	31.10.2018)	
	(c) Allocation made for Environment	(c) Allocations for EMP (at 2013 PL): 330.32 Crs.	
	Management Plan	(d) Actual expenditure incurred on EMP:	
9	(d) Actual expenditure incurred on	Expenditure incurred by CVPP on EMP and	
9	EMP so far	other related activities upto 31.10.2018	
		include:	
		1. Forest and wild life Land Diversion = Rs.	
		203.08525 cr	
		2. Corpus fund for Wild life Conservation =Rs.	
		236.0 cr	
		3. Fisheries Development Plan = Rs.	
		1.96 cr	
		4. Implementation of R&R plan = Rs.	



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PakalDul Hydro Electric Project Ph No. 01995-260661 Fax No. 01995-260661 CIN NO. U40105JK2011PTC003321

		29.12 cr
		Total = Rs.
		470.165256cr.
	Forest Land Requirements	
	(a) Status of approval diversion of	(a) Forest clearance for diversion of 146.66 Ha
	Forest Land for non-forestry use	forest land on right bank of dam/reservoir
		from GoJ&K obtained on 15.12.2015.
		Requisite amount of Rs 17.81 Cr deposited
		with J&K State Forest department on
		15.09.2015. Forest Clearance for diversion of
		188.76 Ha forest land (earlier KHANP land)
		on left bank of dam/ reservoir along with 7.2
		Ha of Forest Land for underground works in
		Dul area obtained on dated 29.11.2016.
		Requisite amount of Rs 178.2055 Cr
		deposited with J&K State Forest department
		on 19.09.2016.
		Government sanction order for additional
		12.125 ha of Forest land at left bank of river
		Marusudar stands accorded for use of Pakal
		Dul HEP vide Govt. order no 207-FST of 2018
		dated 26.06.2018.Requisite amount of Rs
10		6.3083663 Cr deposited with J&K State
man of the control of		Forest department on 15.05.2018.
	(b) The status of clear felling of trees in	
1	Forest Land	Govt. sanction for felling of left out trees
		from already diverted forest land was
		accorded vide Govt. Order No. 225-FST of
		2018 dated 17.07.2018. Requisite amount of
		Rs. 76.13899 lacs was deposited with J&K



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PakalDul Hydro Electric Project Chenab Nagar - II, Kishtwar, (J&K) - 182206 CIN NO. U40105JK2011PTC003321

		Forest Department on 15.05.2018
		(b) Clear felling status: The requisite amount of
		Rs 4.31413 Cr towards cost for extraction of
		trees has been deposited with J&K State
		Forest Corporation. The work of tree felling
and the second s		and extraction is in progress.
Account of the contract of the		
	Status of Construction	
	(a) Date of commencement (actual	(a) Date of commencement (actual) : Out of the
	and/or planned)	Major project works, the Power House
	(b) Date of completion (actual	package has been awarded on 21.02.2018
11	and/or planned)	and Dam package has been awarded on
		21.06.2018.
		(b) Date of completion (planned): 66 months
		from the start of major works.
	Reasons for the delay (If the Project is	
12	yet to be started)	
	Details of Site visits	
13	(a) By Monitoring Committee	Nil
	(b) By Regional Office	Nil
	Brief note on the status of compliance	Details are enclosed as Annexure-II.
14.	of the conditions stipulated by	
	MOEF&CC	
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ANNEXURE-II

Status of Compliance of conditions stipulated by MOEF&CC, Govt. of India vide Environmental Clearance letter dated 29.02.2008.

S.N	Specific Conditions	Compliance Status
0.		
	Catchment area treatment Plan as proposed	Soil Conservation Department, GoJK has
	should be completed in Five years	been requested to take up the
i		Catchment Area Treatment work.
		The action by Soil Conservation
		Department is awaited.
	During the construction of the project, if any	The RR Plan of Pakal Dul HEP has been
	person/family whose acquired land is more	approved by GoJK vide Government
	than 70% of the total land holding is identified,	Order no. 12-DMRR&R of 2017 dated
	such family/person shall be treated as fully	22.02.2017. The approved R&R Plan is
	affected families. R&R package proposed for the	under implementation.
-	displaced families shall be extended to such	The formulation, approval and
	families. NRRP- 2007 package will be followed for	implementation of R&R plan comes
	R&R of PAFs.	under the purview of State Government
		which has adopted a uniform approach in
ii		providing the R&R benefits for the PAFs
		of different HE projects in J&K. The
		recommendations of MOEFCC for
marana saya ya kataka		considering non-displaced PAFs with
		more than 70% of total land holdings as
		displaced PAFs has not been approved by
		the State Government for any of the HE
		project so far. Hence this provision has
		not been considered by Government of
		J&K in formulation and approval of R&R



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		plan for Pokal Dul HE project
		plan for Pakal Dul HE project.
	A Monitoring Committee for R&R should be	DC Kishtwar has been appointed as
	constituted which must include representatives of	Commissioner, Rehabilitation and
	project affected persons from SC/ST category	Resettlement for Pakal Dul HE Project
	and a woman beneficiary.	vide Govt. Order No. 19-DMRR&R of
		2017 dated 16/03/2017. Constitution of
		R&R committee is awaited.
		Monitoring committee is to be
		constituted by Government under the
iii		Chairmanship of Commissioner R&R. the
		matter was discussed in the meeting of
		Empowered Committee held on
		06.04.2018 under the Chairmanship of
		Chief Secretary, GoJK wherein the
		Committee has recommended the
		constitution of R&R committee. The
		formal Government order in this regard
		is awaited.
	The commitment made during the public hearing	Shall be complied.
	should be fulfilled.	The R&R plan has been prepared by
		District Administration and approved by
		GoJK while duly considering the aspirations and demands of PAFs.
		On request of CVPP, the revision of
iv		approved R&R plan for enhancement in
***************************************		one component of financial assistance to
		displaced PAFs is under consideration of
		GOJK. The R&R plan shall be implemented as
		approved by GoJK
		approved by GoJK



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	All the equipment which are likely to generate	
	high noise levels are to be fully equipped (noise	
V	reduction measures) to meet the ambient noise	Being complied.
	control standards	
	Consolidation and compilation of the muck	Being complied.
	should be carried-out in the muck dumping	
	sites and the dumping sites should be above	
	high flood level. The proposed plan for 70.85 lakh	
	cum of muck disposal i.e. about 34 lakh cum is	
vi	proposed to be utilized during construction and	
	the remaining 36.86 lakh cum of muck disposal at	
	two designated areas (DS1-powerhouse site-	
	14.37 lakh cum; DS2- dam site-22.48 lakh cum)	
	should be strictly implemented.	
	The fisheries management plan as proposed in	Being complied
2007	the letter dated 15.01.2008 should be	(DPR amounting Rs. 430.0 lakh was
	implemented in totality. The total budget of	submitted by J&K Fisheries Department
	Rs.339.24 lakhs for the fishery development and	for implementation of Fisheries Development plan of Pakal Dul HEP. An
vii	conservation in the Marusundar river basin	amount of Rs. 196.0 lakhs has been
	should not be diverted for any other purpose.	deposited with J&K Fisheries
	and an area and any other purpose.	Department. (Rs.10.0 lakh as 1 st instalment on 05.01.2017 and 2 nd
		instalment of Rs.186.0 lakhs deposited
		on 26.12.2017).
	The following conditions imposed by the	
	Standing Committee of National Board for	
viii	Wildlife (NBWL) while recommending the	
VIII	proposal for de-notification of KHANP area, shall	
	be strictly complied:	



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	(a) Provisions proposed for the habitat improvement in the Mitigation Plan should be discussed with Wildlife Institute(WII), Dehradun and be modified accordingly. (b)State Wildlife Department may redefine the core area of the National Park considering the human population pressure etc. (c)NHPC would provide a total of Rs.236 Crs including Rs.100 Crs. for the corpus fund for the protected area for the conservation of the wildlife.	Complied (Mitigation Plan was prepared/ modified by J&K Wildlife Department in consultation with Wildlife Institute of India, Dehradun.) The core area of the KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK. Final forest clearance for 195.9619 Ha land (i.e. 188.7619 ha of KHANP land and 7.2 ha of forest land) has been accorded vide Govt. Order no. 289-FST 2016 dated 29.11.2016 of GoJK for which Project has deposited Rs 414.20 Crs to Forest Dept. which includes Rs.236 Crs which further includes Rs.100 Crs for the corpus fund for the protected area for conservation of wildlife.
ix	No construction work/activity should be initiated till Supreme Court grants de-reservation of National Park area.	Complied vide SRO no. 212 dated 06.07.2015 of GoJK issued after grant of approval by Honorable Supreme Court.
X	Clear felling of trees should be restricted to 4 m below the FRL and a 50 m greenbelt should be created around the reservoir periphery.	Being complied. The tree cutting along the FRL is being done only in the area required for the project construction works. The process for creation of greenbelt shall be initiated at the appropriate time.



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Ph No. 01995-260661 Fax No. 01995-260661

	Adequate free fuel arrangement should be made for	
i	the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.	Fuel arrangements are being made by the contractors engaged for Power House works and Dam works.
ii	fuel depot's maybe opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as drinking water & recreational facilities should also be provided to the labourers.	Fuel arrangements, medical facilities, and other arrangements are being made by the contractors engaged for Power House works and Dam works.
III	All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit	Being complied by the contractors engaged for execution of Power House works and Dam works.
iv	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Shall be complied
٧	The total amount of Rs. 9979.29 lakhs kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose	Being complied
vi	A Multidisciplinary committee in consultation with the Ministry should be constituted with Ecologists, Environmental Scientists, Conservationists and experienced administrators etc. to oversee the effective implementation of the suggested safeguard measures.	Approval for Constitution of Multidisciplinary committee (MDC) of Pakal Dul HEP has been accorded by MoEFCC vide no:

nary



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	Six monthly monitoring wongets should be	Paing agreetied
vii	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.	Being complied. Monitoring/ sampling has been conducted in the month of November 2018. However, the reports are awaited and shall be submitted accordingly to MoEFCC.
Othe	r Conditions mentioned in the EC Letter:	
4.	Officials from Regional Office MoEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.	Shall be complied
5.	The responsibility of implementation of environmental safeguards rests fully with the NHPC Ltd. and Government of J&K. (The EC originally granted in 2008 in favour of NHPC was later transferred to CVPP in 2012)	Noted
6.	In case of change in the scope of the project, project would require a fresh appraisal.	There is no change in the scope of the project. Shall be complied if required.
7.	The project involves 386.186 ha of forest land falling under KHANP. This clearance is subject to Hon'ble Supreme Court's permission with respect to dereservation of part of KHANP.	The core area of KHANP has been
8.	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory	



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	Manner.	
9.	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	
10.	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	
12.	The project proponent should advertise within 7 days 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. The requisite advertisement was published in Dainik Jagran (Hindi) and Daily Uzma (Urdu) newspapers dated 07.03.2008.