

PVUNL

# Patratu Vidyut Utpadan Nigam Ltd.

PATRATU

(A subsidiary of NTPC in joint venture with JBVNL)

S. K. PATNAIK  
CEO, PVUNL

संदर्भ सं. / Ref No: PVUNL: CEO: 02

दिनांक / Date: 14<sup>th</sup> July, 2017

Director, IA-Thermal  
Ministry of Environment and Forests  
Indira Paryavaran Bhavan  
Jor Bagh Road  
New Delhi -110003

**Sub.: Additional information - Recommendation for grant of Environmental Clearance for Patratu Super Thermal Power Project, Stage-I (3x800 MW) - regarding**

**Ref: File No. J-13012/21/2015-IA.I(T)**

Dear Sir,

Patratu Vidyut Utpadan Nigam Limited (PVUNL) sincerely thanks MOEF&CC for recommendation for grant of Environmental Clearance to set up coal based Patratu Super Thermal Power Project in Ramgarh district of Jharkhand.

PVUNL is committed to fulfil all specific conditions related to thermal power projects stipulated at Annexure-A2 of MOM of 7<sup>th</sup> meeting of EAC dated 28-06-2017.

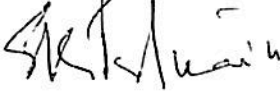
With regard to additional information mentioned in the Minutes of Meeting, point wise response of PVUNL is enclosed at Annexure-I.

PVUNL intends to implement this project in fast track mode. It is therefore requested that the environmental clearance for the project may kindly be processed on priority.

Your cooperation in this regard is sincerely solicited.

Thanking you,

Yours faithfully



(S.K. Patnaik)  
CEO, PVUNL

Encl: as above

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CIN No. U40300DL2015GOI286533

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## Annexure-I

### Compliance of MOM Conditions

<b>S. No.</b>	<b>Condition</b>	<b>Response of PVUNL</b>
i.	Details of volume of ash dykes and quantity of flyash. Plan along with timelines for evacuating and using flyash before starting the operations of proposed project. Undertaking by PP that there ash mound shall not be constructed.	<p>As confirmed during the EAC Meeting, PVUNL shall assess the volume of ash dykes/ quantity of fly ash available in these dykes at present and prepare a time bound action plan for evacuating and using existing fly ash before starting the operations of proposed project.</p> <p>In addition, PVUNL shall ensure 100% ash utilisation within four years of operation of the project as per MOEF&amp;CC Notification.</p> <p>However, in order to ensure uninterrupted operation of the project and store unused ash during first four years as well as during the periods of interruption in ash evacuation/ utilisation thereafter, an ash mound is an essential component of the project.</p> <p>NTPC is well versed with dry ash disposal system in ash mound and it is already operating an ash mound at National Capital Power Station, Dadri (UP) for more than 25 years. PVUNL shall adopt the best practices available for construction and operation of ash mound.</p>
ii.	Authenticated as well as primary baseline data shall be submitted for flora, fauna and bio-diversity.	PVUNL shall submit authenticated data on flora, fauna and bio-diversity within one month.
iii.	Time bound action plan along with financial break-up for implementing CSR activities and public hearing commitments.	It shall be prepared as per guidance from Govt of Jharkhand through district administration
iv.	Action plan (area, species, density, financial allocation) for achieving 33% greenbelt development of the total project area.	Action plan shall be prepared within three months.
v.	Construction and inert waste generated during phasing out of existing plants shall be disposed	It is noted and shall be complied as per the prescribed statutory regulations.

	as per Construction and Demolition Waste Management Rules, 2016.	
vi.	Undertaking be submitted that that there should not be any groundwater extraction during construction period.	The water requirement during the construction phase shall be drawn from the water network of existing Patratu Thermal Power Station. Therefore, there is no provision for extraction of groundwater during construction phase.  PVUNL undertakes not to extract any groundwater during construction period.
vii.	As per the Revised Tariff Policy notified by Ministry of Power vide dated 28.01.2016, project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality/ local bodies/ similar organization located within 50 km radius of the proposed power project to minimize the water drawl from surface water bodies.	It shall be complied as per notification.
viii.	Thermal Power Plant shall achieve specific water consumption, zero liquid discharge and emission standards as per MoEF & CC Notification S.O. 3305(E) dated 07.12.2015 or subsequent notifications issued time to time.	The specific water consumption of Patratu STPP (1610 m <sup>3</sup> /hour) shall be much less than that specified under MoEF & CC Notification S.O. 3305(E) dated 07.12.2015 (6000 m <sup>3</sup> /hour for 3x800 MW).  Patratu STPP, Phase-I, is being designed on the principle of Zero Liquid Discharge (ZLD) and emission standards as stipulated vide MoEF & CC Notification S.O. 3305(E) dated 07.12.2015.
ix.	MoEF & CC Notification G.S.R 02(E) dated 2.1.2014 regarding use of raw or blended or beneficiated or washed coal with ash content not exceeding 34% shall be complied with, as applicable.	It shall be complied as per MoEF & CC notification G.S.R 02(E) dated 2.1.2014.
x.	MoEF & CC Notifications on flyash utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 and subsequent amendments issue time to time shall be complied with.	It shall be complied.
xi.	Separate Environmental Clearance shall be obtained for	Not applicable.

	the township, as applicable.	
xii.	Rooftop Solar lighting shall be provided for the residential houses in the surrounding villages as part of CSR activities. Agriculture, organic farming, modern irrigation techniques, training youth and women, community biogas plants, tribal welfare activities shall be part of CSR activities.	It shall be complied with.
xiii.	Skill mapping of the Project Affected People (PAF) be carried out on a long-term basis for their livelihood generation. A report is to be submitted within 3 months to the Ministry from the date of issuance of environmental clearance.	It shall be complied.
xiv.	Modern methods of agriculture organic farming, compost/vermin-culture making and utilization, drip/ direct to root irrigation) to be promoted in and around the Project area.	It shall be complied.
xv.	Forest Clearance shall be obtained, if applicable.	No forest land is envisaged to be acquired by PVUNL for the Patratu STPP, Phase-I.
xvi.	While implementing CSR, Women empowerment is important. Therefore, proper skill based training/ long term livelihood revenue generation be created for all them. Computer facilities may be provided in the school along with a trained computer teacher to inculcate computer skill among the youths. Water supply provisions shall be made for all the bio-toilets under Swachh Bharat Abhiyan. Preventive health programme may be preferred than the curative health programme such as nutrition development of small children in and around the project.	It shall be complied

**Proceedings of the Public Hearing held on 31.05.2017 at Govt.  
Funded +2 School, Patratu for Environmental Clearance for  
establishment of M/s Patratu Super Thermal Power Project, Phase-I  
(3x800 MW), Patratu, Ramgarh.**

1. Public Hearing for Environmental clearance for the above project was held on 31.05.2017 at Govt. funded +2 School, Patratu under the Chairmanship of Mrs. Jyotsna Singh, ADM-cum-Director, DRDA Ramgarh. In the Public Hearing, Shri Ashok Kumar Yadav, Jr. Environmental Engineer, HQ Ranchi and Shri Chandan Kumar Yadav, Asstt. Scientist, Regional Office, Hazaribagh participated on behalf of Jharkhand State Pollution Control Board. The Public Hearing was specially attended by the officials of the project and villagers of Katia, Koto, Sah Colony, Hesla, Rasda, Jainagar, Bawandhara, Khatal, Balkudra, PTPS Colony, etc.
2. During Public Hearing, Shri Ashok Kumar, Jr. Environment Engineer briefed about the purpose and process of Public Hearing. On behalf of the Management of the project, Shri Bijay Manjul presented detailed information about the project.
3. M/s Patratu Vidyut Utpadan Nigam Ltd. is a joint venture project of M/s NTPC Ltd. and Jharkhand Bijli Vitran Nigam Ltd. with a shareholding of 74% and 26% respectively.

Out of 1859 acres land of Patratu Thermal Power Station, 1234 acres land has been allocated for Patratu STPP Phase-I to Patratu Vidhut Utpadan Nigam Ltd. by Govt. of Jharkhand, Department of Energy. On this 1234 acre land, the main plant, ash disposal area, township and railway track of Patratu STPP Phase-I (3x800 MW) shall be established.

4. On behalf of villagers, Shri Vishwanath Mahto, village Katia; Santosh Kumar, Katia; Vigan Mahli, Kota Basti; Shri Virendra Pratap Singh, Sah Colony; Madan Prasad, Kota; Gopal Mahto, Hehal; Sagar Prasad, Balkudra; Umesh Kumar, Rasda; Mahesh, Rasda; Sahdev Munda, Jainagar; Nidhi Singh, Mukhia Gram Panchayat, Kota; Kuleshwar Modi, Retired Teacher, Patratu; Ravindra Kumar Yadav, Khatal Resident, Bawandhara; Subodh Prajapati, Jainagar; R. K. Choudhary, Jharkhand Engineer Society, Patratu; Sanjay Hansda, Hehal; Sanjay Kumar Ratan, Katia; Suman Devi, Mukhia, Patratu Panchayat; Raja Ram Prasad, Balkudra; Ansari, Rajnagar; Aditya Prasad, Balkudra; Amar Yadav, Balkudra; Santosh Kumar Sah, Patratu; Shakti Kumar Singh, Patratu; Shiv Mohan Munda, Jainagar; Mohammad Waris Khan, PTPS Colony; Sujit Patel, Vidhayak Pratinidhi; Archana Singh, Patratu; Pallavi Devi, Patratu, presented their statements during Public Hearing. The opinions of villagers were in favour of the establishment of project with the conditions of providing facilities to villagers, giving priorities to locals in livelihood and providing electricity, water, education to villagers.

5. The Manager of M/s Patratu STPP, Phase-I (3x800 MW), Patratu, Ramgarh assured to resolve all the grievances and suggestions received from the villagers within the purview of legal system.
6. ADM, Ramgarh in her address appreciated the villagers for their peaceful hearing of the details of the proposed project presented by the Project Management and giving their suggestions/ demand/ advice. Further, the Management was directed to take necessary steps for control of pollution, operating pollution control equipment and resolving the queries/ suggestions/ demands of the villagers within the purview of legal system.
7. The attendance list of officers and villagers present during Public Hearing, CD of video recording of Public Hearing and a copy of questions raised by villagers and their answers are enclosed for ready reference.

(Sh. Chandan Kumar Yadav)  
Asstt. Scientist  
Regional Office, Hazaribag

(Sh. Ashok Kumar Yadav)  
Jr. Environment Engineer  
JSPCB, HO, Ranchi

(Ms. Jyotsana Singh)  
ADM-cum-Director  
DRDA, Ramgarh

**JHARKHAND STATE POLLUTION CONTROL BOARD**  
**TA Division Building (Ground Floor), HEC Dhurva, Ranchi**  
**Telephone (0651) 2400851, 2400852 FAX 0651-2400850**

Details of Questions Raised by Villagers During the Public Hearing held on 31.05.2017 at Govt. funded +2 School, Patratu and their Answers for M/s Patratu Super Thermal Power Project Phase-I (3x800 MW), Patratu, Ramgarh, Jharkhand.

<b>Sl. No.</b>	<b>Name and Address</b>	<b>Queries raised by Villagers/ Members</b>	<b>Replies given by Company Representative During Public Hearing</b>	<b>Action Plan for Implementation</b>
1.	Shri Vishwanath Mahto, Village Katia	The facilities for road, electricity should be given. We welcome this project.	In view of the questions/suggestions, the project Management provided the following combined answers at the end.  We assure that there will be negligible impact on air and water pollution due to this project.	No specific action plan is required.  After accord of environmental clearance for new units and investment approval for the project, various works under community development shall be undertaken such as construction of roads in villages, training for self-employment, improvement in health facilities etc.
2.	Shri Santosh Kumar, Katia Panchayat	I welcome this project. We want that all the works should be undertaken keeping in mind the displaced persons.	PVUNL clarified that the new units shall be based on modern ultra super critical technology and work on new environmental norms. These units shall have ESP, FGD, DeNOx system, 275 m tall chimney, air cooled condensers, dry ash disposal system, zero liquid discharge system, etc. Comparison of the new plant with the old plant does not arise.	As per MOU, the land for the project, belonging to JUUNL is being transferred to PVUNL encumbrance free. Therefore, there are no displaced persons due to land acquisition for PVUNL.  Hence, no specific action plan is required.
3.	Shri Vigan Manjhi, Koto Basti	We work in this plant. Thanks for establishing plant. It should provide livelihood to local people. This will reduce lack of livelihood		The livelihood opportunities will be created due to plant construction. The local people shall be given priority in the livelihood based on their skill and requirement. As the work is progressing,

		here. Plant must be established. It will lead to development.	The livelihood opportunities will be created due to plant. The local people shall be given priority for livelihood based on their skill and requirement. As the work is progressing, local people are getting livelihood opportunities through agencies. Plant will have zero liquid discharge. Local people shall be given first preference in jobs.	local people are getting livelihood opportunities through agencies. Hence, no specific action plan is required.
4.	Shri Virendra Pratap Singh, Sah Colony	We request NTPC Management that first they should work with a positive attitude towards displaced villagers. NTPC should develop the nearby villages to raise our standard of living.	Under Community Development, the works of linking villages with infrastructural facilities, education and health shall be fully taken care of.	The project is being established by PVUNL, a JV company of NTPC and JBVNL. Therefore, the CSR-CD works shall be undertaken by PVUNL under the guidance of NTPC, a majority stake holder.
5.	Shri Yogendra Prasad, Hesla	We request NTPC Management that all the people should get livelihood.	It was informed by PVUNL that health camps and water supply are being organised. Further, it was assured that after accord of environmental clearance for new units and investment approval for the project, various works under community development shall be undertaken such as construction of roads in villages, training for self-employment, improvement in health facilities etc.	Please refer the response under Para 3 above.
6.	Shri Gopal Mahto, Hesla	We welcome NTPC Management. Plant will give livelihood.		Please refer the response under Para 3 above.
7.	Shri Sagar Prasad, Hesla	The livelihood will be created only if plant is established.		Please refer the response under Para 3 above.
8.	Shri Umesh Kumar, Sharda Village	Management is requested to focus on pollution control first. It should be taken care of that people are not affected due to air, water and noise pollution and people should be given livelihood.		The old units have already been closed. The new units shall be based on modern ultra super critical technology and work on new environmental norms. These units shall have ESP, FGD, DeNOx system, 275 m tall chimney, air cooled condensers, dry ash disposal system, zero liquid discharge system, etc. and will be complying with latest environment norms of Govt.
9.	Shri Sanjay Munda, Jainagar Basti	Our lack of livelihood should be eliminated. We have to go here and there for livelihood. Lack of livelihood should be solved.		Please refer the response under Para 3 above.

10.	Smt. Nidhi Singh, Mukhiya Koto	I welcome this plant. The plant must come up.		PVUNL acknowledges the support and shall try its best to meet the expectations of the people.
11.	Shri Kuleshwar Modi, Retired Teacher Patratu	In this area, very few people rear cows. It is being discussed that Khataal (cow rearing places) will be removed. It will create acute shortage of milk. NTPC is requested not to remove Khataal.		This will be dealt as per prevailing rules of the state.
12.	Shri Ravindra Prasad Yadav, Patratu	NTPC is requested that poor people reside in Jhuggi Jhopri. These should not be removed. Facilities should be created for our habitation.		This will be dealt as per prevailing rules of the state
13.	Shri Subodh Prajapati, Ward Member, Jainagar	I welcome every one. We are given assurances when plant are established. We are jobless. We do not get livelihood. Our grievances should be addressed. There should be no pollution. We should get jobs. If we do not get jobs after establishment of plant, it will be locked.		Please refer the response under Para 3 and 8 above.
14.	Shri R. K. Chaudhary Patratu Thermal Colony	NTPC is going to establish plant, there is a very happy environment. We always feel happy when a plant comes. The schemes under CSR should be implemented. This is our expectations.		Please refer the response under Para 4 above.

15.	Shri Sanjay Munda Hesla	I use to work as labour in Patratu Thermal. I have been removed. My problem should be resolved.		Please refer the response under Para 3 above.
16.	Shri Sanjay Kumar Rajak, Katia	We have been removed from the job since NTPC came here. How will the development take place?		Please refer the response under Para 3 above.
17.	Smt. Suman Devi, Mukhiya Patratu	We all want development. The people who are residing here should not be removed. Job should be given.		Please refer the response under Para 3 above.
18.	Shri Rajaram Prasad, Balkudra	It is clear that Public Hearing is a deception. Many times, Public Hearing was conducted but it was limited to papers. Diseases are spread in different parts of PTPS. The pollution will again spread like PTPS. The Nala in Balkudra and nearby areas is polluted. There is a question mark on the officials of Pollution Control Board and Administration. We do not oppose the project but we do not agree with the works of Pollution Control Board.		Please refer the response under Para 8 above.
19.	Mohammad Ansari, Jainagar	Plant should be established. It is a matter of happiness. Care should be taken of the displaced and unemployed people. 183 people are not being put on any job.		Please refer the response under Para 3 above.

20.	Shri Aaditya Narayan Singh, Balkudra	On behalf of a local people, we welcome. What will come out of the signatures in Public Hearing? How will the consent of people be decided? Plant should be established. Pollution should be controlled.		For pollution control, please refer the response under Para 8 above.
21.	Shri Amar Yadav, Balkudra	I am a displaced person. I welcome all. Madam, you are Addl. Commissioner, Ramgarh. You look after the land issues. Please tell us how many villages are displaced? Patratu Thermal Power Station does not recognize 25 villages as displaced. These villages should be given the status of displaced.		As per SANKALP of GoJ dated 16-03-2016, the land being transferred to PVUNL, was earlier acquired from 10 number of villages eg. Balkudra, Rasda, Gegda, Hesla, Katia, Koto, Sahitand, Jainagar, Sakul and Patratu.
22.	Shri Santosh Kumar, Sah, Vidhayak Pratinidhi	There is a pollution created by tyre factory in Patratu. M/s OSM Dairy is also polluting the river. Where is the guarantee that this plant will not generate pollution.		Please refer the response under Para 8 above.
23.	Shri Pappu Singh, Patratu	It is one year since NTPC has come to PTPS campus. Please tell us what has been done by NTPC.		Health camps and water supply are being organised by PVUNL. After accord of environmental clearance for new units and investment approval for the project, various works under community development shall be undertaken such as construction of roads in villages, training for self-employment , improvement in health facilities etc.

24.	Shri Shiv Mohan Munda, Mukhiya Jainagar Panchayat	The river passes through our village. The river is polluted. It is not even fit for drinking by animals. As the plant is closed, water has become cleaner. After establishment of new plant, the river should be protected from getting polluted. The compensation should be paid at the earliest. People should be given jobs.		Plant has been designed with zero liquid discharge system. It will have air cooled condensers, dry ash disposal system, ash mound. Therefore, there will be no impact on the water quality of the river.
25.	Shri Sujit Kumar Patel, Vidhayak Pratinidhi	PTPS has the problems of water and electricity. It should be solved. The contract labourers who have become jobless should be given jobs again.		Health camps and water supply are being organised by PVUNL. The supply of electricity is not within the purview of PVUNL.  For livelihood please refer the response under Para 3 above.
26.	Smt. Archana, Patratu	I welcome the guests in Patratu. We have come with nice dreams. This recording will go to the Central Government. We want that Patratu Vidyut Utpadan Nigam Ltd. should operate and people get livelihood. The contract labourers do not get paid. The list of displaced/ affected villages should be published.		PVUNL acknowledges the support and shall try its best to fulfill the needs/expectation of the people.