

**ATHENA**

**Athena Demwe Power Limited, New Delhi**

**Six Monthly Progress Report  
Compliance Status of Environmental Clearance  
1750 MW Demwe Lower HEP, Lohit District, Arunachal Pradesh**



**June, 2017**

**1750 MW Demwe Lower HEP of M/s Athena Demwe Power Limited  
“Six Monthly Compliance Report for the period ending May, 2017”**

1.	Name of the Project	1750 MW Demwe Lower HE Project
2.	Type of the Project	River Valley (Run of the River) Project
3.	Clearance letter(s) OM No. & Date	
	a) Environment Clearance	<ul style="list-style-type: none"> <li>Environment Clearance issued vide letter No: J-12011/4/2008-IA-I; Dated: 12.02.2010</li> </ul>
	b) Forest Clearance	<ul style="list-style-type: none"> <li>State Govt. Forest Clearance Order u/s 2 of Forest (Conservation) Act, 1980 issued vide letter dated 26.07.2013.</li> </ul>
	c) Wildlife Clearance	<ul style="list-style-type: none"> <li>Standing Committee of NBWL accorded Clearance vide letter No: F. No. 6-79/2011.WL; dated 11.02.2012</li> </ul>
4.	Locations	
	State(s)	Arunachal Pradesh
	District(s)	Lohit
	Latitude	27° 52' 48"N
	Longitude	96° 22' 39"E
5.	Address for correspondence-	
	Address of concerned project head (with pin code and telephone/fax nos.)	<p>Mr. Gagan Agarwal Chief Operating Officer Athena Demwe Power Limited Parashuram Kund Lohit District, Arunachal Pradesh Ph no/Fax: 0380-4222918</p>

	Address of concerned Person in corporate office (with pin code & telephone /fax no.)	Mr. K. Seethayya, President J-38, Second Floor, B.K. Dutt Colony, Near Paryavaran Bhawan, Jor Bagh, New Delhi-110003
6.	Details of Environmental Management Plans	<ul style="list-style-type: none"> <li>• Biodiversity Conservation &amp; Wildlife Management</li> <li>• Catchment Area Treatment Plan.</li> <li>• Fisheries Development Plan</li> <li>• Public Health Delivery System</li> <li>• Solid Waste Management Plan</li> <li>• Provision for Fuel and Energy Conservation Measures</li> <li>• Rehabilitation &amp; Resettlement Plan and Local Area Development Plan</li> <li>• Disposal and Rehabilitation of Muck</li> <li>• Restoration of Construction Areas and Landscaping</li> <li>• Creation of Green Belt around the Reservoir</li> <li>• Disaster Management Plan</li> <li>• Compensatory Afforestation Scheme</li> <li>• Reservoir Rim Treatment Plan</li> <li>• Environmental Monitoring Programme</li> <li>• Environmental Measures during construction Phase.</li> </ul>
7.	Break-up of the project area. (land details)  a) Submergence area. (forest & non forest)  b) Others	<p>Total land-1589.97 ha.</p> <p>i) Total Forest Land- 1415.92 ha.</p> <p>ii) Community Land/Jhum Land- 174.05 ha</p> <p>a) Submergence Area- Total - 1131.09 ha ( i.e. 969.44 ha forest land (including 478.91 ha of riverbed) &amp; 161.65 ha of Community Jhum land /Agricultural land)</p>
8.	Breakup of the project affected population with enumeration of those losing houses/ dwelling units only, agricultural land only. Both dwelling units	<ul style="list-style-type: none"> <li>• No homestead is getting displaced, hence no Resettlement.</li> <li>• Total 204 no. of families belonging to ST category are likely to be partially affected due to land acquisition for the</li> </ul>

	<p>and agricultural land and landless labourers/ artisans.</p> <p>a) SC /ST /Adivasis.</p> <p>b) Others</p>	<p>various components like Submergence, dam, colony, quarries, approach roads, tunnels etc. of Demwe Lower H.E. Project.</p> <p>a) SC /ST /Adivasis- 204 no.</p> <p>b) Others-NIL</p>
<p>9.</p>	<p>Financial details.</p> <ul style="list-style-type: none"> <li>• Project cost as originally planned and subsequent revised estimates and the years of price reference.</li> <li>• Allocations made for Environmental management plans.</li> <li>• Actual expenditure incurred on Environmental Management Plan so far.</li> </ul>	<ul style="list-style-type: none"> <li>• Total Project Cost including IDC &amp; FC as approved by CEA/CWC in Concurrence letter is Rs. 13144.91 Crores.</li> <li>• A budgetary provision of Rs. 315.15 Crore (including R&amp;R Plan and LADP), has been approved by MoEF&amp;CC for implementation of various environmental safeguard measures in the Environmental Management Plan. Further, budgetary provision for Wildlife Plan made under EMP has been increased from Rs. 1.84 Lakh to Rs. 4.11 Crore by State Board of Wildlife &amp; NBWL.</li> <li>• The Project is in Pre-construction phase. However, ADPL in consultation with District Administration has initiated the Local Area Developmental Plan (LADP) activities as per the provisions of EMP to fulfill the commitments made during the Public hearing.</li> </ul>

10.	<p>Forest land requirements.</p> <ul style="list-style-type: none"> <li>• Status of approval for diversion of forest land for non forestry use.</li> <li>• The status of clear felling in the forest land.</li> </ul>	<ul style="list-style-type: none"> <li>• Ministry of Environment Forests and Climate Change has granted Stage-II Forest Clearance vide letter No: F.No.8-7/2010-FC; Dated: 03.05.2013.</li> <li>• Forest Clearance Order under Section 2 of Forest (Conservation) Act, 1980 issued by Govt. of Arunachal Pradesh vide letter dated 26.07.2013</li> <li>• Thereafter, ADPL requested, State Forest Department for tree felling operation for phase-I activities over 36 ha of Forest area. Subsequently, tree felling operation was taken up by the State Government.</li> <li>• However, during the hearing held on 04.04.2014 before the Hon'ble National Green Tribunal (NGT) in the Appeals challenging the Environment and Forest Clearances granted to the Project, the Learned Counsel appearing for the State of Arunachal Pradesh had given an undertaking that status quo will be maintained and no trees will be cut in forest till completion of the Case, in event of the Appeals being heard on day to day basis, and completed at an early date.</li> <li>• The Forest Appeal is presently being heard at Chennai Bench of Hon'ble NGT.</li> </ul>
11.	<p>Status of construction</p> <ul style="list-style-type: none"> <li>• Date of commencement (actual and/or planned)</li> <li>• Date of completion (actual and/or planned)</li> </ul>	<ul style="list-style-type: none"> <li>• April, 2011 (Planned as per DPR)</li> <li>• 61 months from Zero date</li> </ul>
12.	<ul style="list-style-type: none"> <li>• Reasons for the delay, if the project is yet to be started.</li> </ul>	<ul style="list-style-type: none"> <li>• The Project is in Pre-construction phase and construction works yet be commenced. At present status quo on tree felling operations is being maintained by the GoAP.</li> <li>• Project had in September, 2011 tied up the entire debt requirement from the Financial Institutions / Banks. However, due to delay in obtaining the Forest Clearance which was accorded in July 2013, the validity of sanctions got lapsed. REC, the Lead Lender and PFC have</li> </ul>

		<p>revalidated/reappraised their sanctions in April and October 2014 respectively.</p> <ul style="list-style-type: none"> <li>• REC, Lead Lender, and PFC have revalidated/reappraised their respective sanctions on 17<sup>th</sup> Apr, 2014 and 28<sup>th</sup> Oct, 2014 respectively.</li> <li>• However, due to delay in revalidation by other Consortium Lenders, Joint Lenders' Meets were held in Oct, 2015 and Jun, 2016 to discuss the way forward for early financial closure and implementation of the Project.</li> <li>• Accordingly, the matter is being pursued with the Consortium Lenders for facilitating financial closure of the Project.</li> </ul>
13.	Details of visits- By Regional Office.	-
14	Brief note on the status of compliance of the conditions stipulated by MoEF and SPCB.	<ul style="list-style-type: none"> <li>• Status of compliance of the conditions stipulated by MoEF&amp;CC in environmental clearance are enclosed as <b>Appendix –A</b></li> </ul>
15	Status of construction activities and Implementation of EMP as per the progress of present construction activities.	<ul style="list-style-type: none"> <li>• Construction works yet to be started.</li> </ul>

**Compliance Status of Environmental Clearance  
for  
Demwe Lower (1750 MW) H E Project**

Clause No	Conditions	Status
<b>5. Part A: Specific Conditions</b>		
i)	Catchment Area Treatment Plan as has been proposed should be completed in 5 years.	<ul style="list-style-type: none"> <li>• Catchment Area Treatment Plan shall be implemented by the State Forest Dept.as per provisions kept under approved EMP.</li> </ul>
ii)	The R&R package approved by Government of Arunachal Pradesh specially prepared for this project should be followed for project affected. Adequate publicity of the compensation package should be circulated in the affected villages.	<ul style="list-style-type: none"> <li>• The R&amp;R package has been discussed elaborately during the public hearing and the same was approved by MoEF&amp;CC during the Environmental Clearance appraisal of the project.</li> <li>• Total financial package of Rs. 9950.96 Lacs has been kept towards Rehabilitation &amp; Resettlement Plan and Local Area Development Plan including Public Health Delivery.</li> </ul>
iii)	Prior approval under Forest (Conservation) Act, 1980 for diversion of forest land should be taken. No physical work will be initiated without forest clearance for this project.	<ul style="list-style-type: none"> <li>• Ministry of Environment &amp; Forests granted the Stage-I Forest Clearance vide letter No: F.No.8- 7/2010; Dated: 01.03.2012 and Stage-II Clearance vide letter No: 8-7/2010-FC Dated 03.05.2013.</li> <li>• Forest Clearance Order under Section 2 of Forest (Conservation) Act, 1980 issued by Govt. of Arunachal Pradesh vide letter dated 26.07.2013.</li> </ul>
iv)	As the Kamlang Wildlife Sanctuary is within 10 km distance clearance from National Board for Wildlife (NBWL) under the Wildlife (Protection) Act 1972	<ul style="list-style-type: none"> <li>• Clearance from Wildlife angle granted by the Standing Committee of NBWL, MoEF&amp;CC on 11.02.2012.</li> </ul>

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	should be obtained.	
v)	The commitments made during the public hearing should be fulfilled.	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>
vi)	During the construction period, continuous water shall be released downstream through a separate diversion tunnel of 6 m dia as proposed and during the operation period, continuous water will be released downstream through a separate 40 MW installed unit, which shall run 24hrs continuously to release 35 cumec of water downstream to maintain the needs at the Parasuram Kund as well as for maintaining the aquatic life in the downstream.	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>
vii)	72 lakh cum is the total quantity of boulder requirement as construction material. Of this 22 lakh m <sup>3</sup> are to be met from the compulsory excavation required for project execution and 50 lakh m <sup>3</sup> from the over burden.	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>
viii)	In order to monitor the micro-seismic activities of the area at least seven number of micro seismic stations should he installed.	<ul style="list-style-type: none"> <li>Being complied</li> </ul>
ix)	All the equipment's which are likely to generate high noise levels are to be fully mollified (noise reduction measures).	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>
x)	Consolidation and compilation of the muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan envisages a total 101.18 lakh cum of muck, which will be generated from excavation for different appurtenant structures like diversion tunnel, dam, adits, infrastructure works and power house complex. About 40% of the muck generated from overburden excavation, amounting to 20.00 lakh cum will be utilized as aggregate for concrete and 4.2 lakh cum will be used in the Coffor dam. The volume of the remaining muck from overburden	<ul style="list-style-type: none"> <li>An area of 150 ha has been earmarked for muck dumping. Due care shall be taken during the project construction to avoid spillage of muck; all the muck generated shall be dumped in the designated muck dumping sites only.</li> </ul>



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	<p>amounts to 34.28 Lakh cum and that from rock amounts to 42.70 Lakh cum. After adding a swelling-factor of 25% for overburden material and 60% for excavated rock, the total muck volume that requires to be rehabilitated is 111.17 Lakh cum. Two dumping sites of 150 ha area with the capacity of 112.62 Lacs cum have been identified in plain area near Parasuram kund on the left bank of Lohit river to rehabilitate the generated muck and the measures proposed in the plan should be strictly implemented.</p>	
xi)	<p>Green belt development is proposed around project areas, reservoir periphery and other components in an area of 2887.8 ha. Plantation proposed area has been divided into three layers for plantation of different plant species depending upon the microclimatic condition that will develop after creation of the reservoir. The allocated amount of Rs. 91.45 lakhs green belt development should strictly be used for the purpose.</p>	<ul style="list-style-type: none"> <li>• Noted for compliance.</li> </ul>
xii)	<p>The proposed reservoir of the dam should be declared as protected area with provision for development and conservation of fish species.</p>	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>
xiii)	<p>The proposed fisheries development on the reservoir or the tributaries of Lohit river should be implemented within the timeframe. Three hatcheries are proposed for the indigenous species, viz. <i>Tor putitora</i>, <i>T. mosal</i>, <i>T. tor</i>, <i>Acrossocheilus hexagonolepis</i>, <i>Labeo rohita</i>, <i>L dero</i>, <i>Schizothorax richardsoni</i>, <i>Schizothoraichthys progastus</i> are suggested. A total budget of Rs. 456.25 lakhs is allocated for this purpose and the proposed plan should be implemented in consultation with the State Fisheries Department.</p>	<ul style="list-style-type: none"> <li>• Shall be complied accordingly in consultation with State Fisheries Department.</li> </ul>
xiv)	<p>The Biodiversity Conservation and Wildlife</p>	<ul style="list-style-type: none"> <li>• Shall be complied accordingly in</li> </ul>

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	<p>Management Plan proposed in the EMP should be strictly taken-up and implemented in totality in Consultation with the State Forest Department as mentioned in the EMP. The budget of Rs. 892.41 lakhs for the Biodiversity conservation and Wildlife Management Plan should be strictly implemented.</p>	<p>consultation with State Forest Department.</p>
<p>xv)</p>	<p>As directed by the EAC during the appraisal of the project, a separate downstream impact study with the study area from Demwe Lower HEP dam site along the river course covering area up to the confluence of major tributary of River Lohit i.e. Noa-Dihang will be carried out in a time bound manner at the cost of the developer. For the purpose of these studies, separate TOR and other modalities would be issued separately.</p>	<ul style="list-style-type: none"> <li>• M/s WAPCOS Ltd. has been entrusted with conducting the downstream impact study. WAPCOS has collected the baseline data in the study area as per the approved TOR, pending primary field studies inside Dibru Saikhowa National Park (DSNP).</li> <li>• The permission for undertaking field studies inside DSNP was issued by the State Forest Dept. Assam to WAPCOS in July, 2013.</li> <li>• However, due to violent protests staged by the Assam based locals, against the studies in DSNP, M/s WAPCOS could not conduct the field studies in DSNP as planned for the period of winter season in January, 2014.</li> <li>• In this regard, M/s WAPCOS has informed MoEF&amp;CC and to the State Governments of Assam and Arunachal Pradesh respectively about violent protests staged by the Assam based locals and requested for support &amp; corporation by State of Assam for conducting the studies in DSNP.</li> <li>• M/s WAPCOS vide its letter dated 10-08-2016 has requested the Principal Chief Conservator of Forest (Wildlife)-cum-Chief Wildlife Warden, Assam to renew/extend permission to facilitate WAPCOS to carry out pending field studies of DSNP and to</li> </ul>

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		complete the Downstream Studies at the earliest.
xvi)	The project since falls in Lohit Basin and at present the Basin Studies are ongoing and it was stipulated during the grant of TOR for scoping that the Environmental Clearance for Demwe Lower HEP should not be linked with the completion of basin studies. However, any recommendations that emerge out from the basin studies shall be a binding on the project developer in future.	<ul style="list-style-type: none"> <li>MoEF&amp;CC vide its letter dated 13<sup>th</sup> October, 2016 has approved the Lohit Basin Study.</li> </ul>
xvii)	The project will release normal lean season flow for a period of 7 days during mela (Sankranti) period in Parsuram Kund, in the month of January as per the condition stipulated by the Parashuram Kund Improvement Society.	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>
xviii)	The financial allocation for the protection of the Parasuram Kund should be enhanced from Rs. 2 crores to about Rs. 10 crores as suggested by the EAC. The said amount would be utilized for creating appropriate amenities, infrastructure, structures and safeguards etc., as decided by Parasuram Kund Improvement Society who are looking after the developmental activities related to the Parasuram Kund.	<ul style="list-style-type: none"> <li>As directed by EAC of MoEF&amp;CC, the financial allocation has been enhanced accordingly.</li> </ul>
xix)	The environment clearance does not necessarily imply that forestry and wildlife clearance shall be granted to the project and that the proposals for the forestry and wildlife clearances shall be considered by respective authorities on their merit. The investment made in the project, if any, based on environmental clearance so granted, shall be entirely at the cost and risk of the project proponent.	<ul style="list-style-type: none"> <li>Noted.</li> </ul>
<b>5. Part B: General Conditions</b>		
i)	Adequate free fuel arrangement should be made for the labour force engaged in the construction work at	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>

Clause No	Conditions	Status
	project cost so that indiscriminate felling of trees is prevented.	
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.	<ul style="list-style-type: none"> <li>• Noted for compliance.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• Noted for compliance.</li> </ul>
iv)	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	<ul style="list-style-type: none"> <li>• Noted for compliance.</li> </ul>
v)	Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.	<ul style="list-style-type: none"> <li>• A budgetary provision of Rs. 315.15 Cr. has been made towards implementation of Environmental Management Plans involving safeguard measures as approved by MoEF&amp;CC while granting environmental clearance to the Project. Further, budgetary provision earmarked for Wildlife Plan of EMP has been increased from Rs. 1.84 Cr. to Rs. 4.11 Cr. by the State Board of Wildlife, Govt. of Arunachal Pradesh.</li> </ul>
vi)	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Shillong for review.	<ul style="list-style-type: none"> <li>• Six monthly compliance reports are being submitted to the Ministry and its regional and concerned offices on regular basis.</li> </ul>
vii)	Officials from Regional Office MOEF, Shillong 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.	<ul style="list-style-type: none"> <li>• Noted for compliance.</li> </ul>

Clause No	Conditions	Status
6.	The responsibility of implementation of environmental safeguards rests fully with the M/s Athena Demwe Power Pvt. Ltd. & Government of Arunachal Pradesh.	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>
7.	The total amount of Rs. 31514.71 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.	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>
8.	In case of change in the scope of the project, project would require a fresh appraisal.	<ul style="list-style-type: none"> <li>Noted for compliance.</li> </ul>
9.	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 manner.	<ul style="list-style-type: none"> <li>Noted.</li> </ul>
10.	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	<ul style="list-style-type: none"> <li>Noted.</li> </ul>
11.	A copy of the clearance, letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	<ul style="list-style-type: none"> <li>Complied.</li> </ul>
12.	The proponent should advertise 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 letter are available with the	<ul style="list-style-type: none"> <li>Complied.</li> </ul>

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	State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic-in">http://www.envfor.nic-in</a>	
13.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional office of MoEF, the respective Office of CPCB and the SPCB	<ul style="list-style-type: none"> <li>• Six monthly reports are being submitted to the concerned Authorities both in hard copy and by email.</li> </ul>
14.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	<ul style="list-style-type: none"> <li>• An appeal challenging the grant of Environmental Clearance to the Project was dismissed by Hon'ble National Green Tribunal (in supersession to NEAA) on 13.01.2015.</li> <li>• Hon'ble Supreme Court of India vide judgment dated 18.07.2016 has upheld the Environmental Clearance to the Project.</li> </ul>