

**Compliance Statement Report to Environmental Clearance of
M/s Hinduja National Power Corporation Limited
July 2014 to December 2014**

**Compliance
Statement**

**HINDUJA NATIONAL POWER CORPORATION LIMITED
COMPLIANCE STATUS REPORT – JULY 2014 – DECEMBER 2014**

Sr. No.	Condition	Status
Specific Conditions		
i)	All the conditions stipulated by Andhra Pradesh Pollution Control board vide their letter No.19/PCB/C.Estt./RO/VSP/AEE/V111/95-4433 dated 13 th November, 1995 should be strictly implemented	Noted and are being complied as applicable. A monthly environmental monitoring report is being submitted to APPCB every month.
ii)	A bi-flue stack of 275 m with continuous stack monitoring system should be installed.	A bi-flue stack of 275 m has been constructed.
iii)	Electrostatic precipitator having efficiency of not less than 99.8% should be installed and it should be ensured that particulate emissions would not exceed the prescribed limit of 150 mg/Nm ³ .	An ESP with 99.8% efficiency is being installed to control the dust emissions below 150 mg/Nm ³ .
iv)	Once through cooling system should be provided and the rise in temperature should be maintained within 5 degrees centigrade of the ambient water. The proposed pipeline for sea water intake and outlet should conform to the regulations of the coastal zone notification of February, 1991. Desalination plant should be provided for meeting the water requirement of the power project and other auxiliary activities.	MoEF vide its letter dated 20 th April 1999 referred at Ref:4 above has permitted once through cooling system to maintain temperature differential within 7 degrees centigrade over and above the ambient temperature of the receiving water body (in line with MoEF notification GSR7 dated 22.Dec.1998). Once through cooling system is now being designed to comply with this revised condition. Desalination plant has been installed for meeting the water requirement of the power project and other auxiliary activities.
v)	Adequate space should be provided for installation of flue gas desulphurization plant in future for control of sulphur dioxide.	Space provision for installing FGD if required, has been provided in the plant layout.
vi)	Acquisition of land should be restricted to 2682 acres including 890 acres for ash disposal.	HNPCL has so far acquired a total of approx. 1510 Acres of land for the Project.
vii)	Only beneficiated coal to the tune of 16080 MT/day should be used with ash content not exceeding 34%. Fly ash generated should be collected in dry form in silos and fully utilized in a	MoEF vide its letter mentioned in Ref:3 has modified this condition to be read as <i>"Only beneficiated coal to the tune of 16080 metric tonnes/day should be used with</i>

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	<p>phased manner. As indicated in the Environmental Management plan, increase in the dyke height above 8 m should be undertaken through use of fly ash. For avoiding contamination of ground water, ash pond area should be suitably lined and dyked. As provided in the layout, adequate space should be earmarked for getting up of ash user plants to avoid long distance transportation to fly ash.</p>	<p><i>average annual ash content supplied by Mahanadi Coalfields Limited not exceeding 34+1-2%. Fly ash generated should be collected in dry form in silos and fully utilized in a phased manner. As indicated in the Environmental Management plan, increase in the dyke height above 8 m should be undertaken through use of fly ash. For avoiding contamination of ground water, ash pond area should be suitably lined and dyked. As provided in the layout, adequate space should be earmarked for getting up of ash user plants to avoid long distance transportation to fly ash."</i></p> <p>Further vide letter mentioned in Ref:4 MoEF has accorded "no objection to the use of fuel from alternative sources which will have the same coal quality as beneficiated coal".</p> <ul style="list-style-type: none"> • With respect to the above we confirm that: Total coal expected to be used in a day will be well within the quantity recommended. Fly ash will be fully utilized in a phased manner as mentioned in the condition. • Ash pond is being lined to prevent contamination of ground water. • Discussions are in progress with the ash users to install ash utilization plants in the vicinity of power plant.
viii)	Noise level should be limited to 85 dBA and regular maintenance of equipments be undertaken. For people working in the area of generator halls and other high noise areas, ear plugs should be provided.	<p>Noise levels shall be maintained as per the prescribed limits.</p> <p>Requisite personnel protective equipment shall be provided to people working in high noise areas.</p>
ix)	For controlling fugitive dust, regular sprinkling of water in coal handling and other vulnerable areas of the plant should be ensured.	Regular sprinkling of water in Coal handling plant, Ash Handling plant and other vulnerable areas of the plant is being planned.
x)	Afforestation plan should be formulated in consultation with the local DFO and implemented by creating a greenbelt of 500 m along the sea side from High Tide Line. A strip of greenbelt of 150-200 m should also be created along the ash pond area and about 100 m in available spaces within the colony along the road etc. A norm of 1500-2000 trees per ha	<p>Greenbelt and afforestation plan is being developed in a phased manner as per the latest guidelines, in consultation with the Conservator of forests (Social forestry) and District Forest Officer (DFO) based on the local climate and soil conditions.</p> <p>The horticulture department under the guidance of the experienced horticulturalist in</p>

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	should be followed and aftercare and monitoring should also be ensured.	consultation with the local forest department is carrying out the green belt development program. So far HNPCL has already planted over 1,50,000 saplings
xi)	Continuous monitoring of ground water should be undertaken by establishing good network of observation wells in consultation with the Central ground water board. Results and data collected should be analysed to ascertain the status of water quality and findings should be submitted for evaluation.	Continuous ground water monitoring is being carried out and monthly data is being submitted to APPCB.
xii)	All effluents generated in various plant activities should be collected in the Central Effluent Treatment Plant and treated to ensure adherence to specified standards of discharge. The concept of zero discharge should be adopted to a maximum possible extent.	Noted and shall be complied with. All efforts will be made for maximizing recovery and reuse of waste waters.
xiii)	Keeping in view the fact that 2x500 MW thermal power plant by M/s. National Thermal Power Corporation limited proposed in the vicinity of 1040 MW thermal power project, common facilities for coal transportation, laying of rail lines etc. should be worked out with mutual consultation to avoid duplication of facilities and acquisition of additional land.	The Company is in discussion with NTPC for optimizing Right of Ways with respect to railway line corridor.
xiv)	A financial provision of Rs. 250 crores should be provided for implementation of environmental mitigative measures with adequate scope for its enhancement in future. These funds should not be diverted for any other activities and separate account should be maintained.	Noted
xv)	Regular monitoring for SPM, SO ₂ and NO _x around the power plant may be carried out and records maintained. The data also collected should be properly analysed and submitted to the Ministry every six months.	Monitoring is being carried out at eight ambient air quality monitoring stations within the 10 km radius study area from the Proposed power plant complex, with four in the predominantly downward wind direction. Data on ambient air quality is being submitted to APPCB on monthly basis. The same has been compiled and is enclosed herewith.

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xvi)	Full cooperation should be extended to the Scientists/officers from the Regional Office of the Ministry at Bangalore and also to the State Pollution Control Board who would be monitoring the compliance of environmental status. Complete set of impact assessment report and the Management Plans should be forwarded to the Regional Office for their use during monitoring.	Noted.
xvii)	Monitoring committee should be constituted for reviewing the compliance to various safeguard measures by involving recognized local NGOs, Pollution Control Board experts etc.	Noted.
3	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry	Noted
4	For any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the conditions imposed and to add additional environmental protection measures required, if any.	Noted
5	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986, the public liability Insurance Act, 1991, the Impact Assessment Notification of January, 1994 and its amendments.	Noted

**TABLE - 3.4
SUMMARY OF AMBIENT AIR QUALITY DATA (JULY-2014 to DECEMBER-2014)**

Location Code	Location	PM2.5				PM10			
		Min	Max	Avg	98% tile	Min	Max	Avg	98% tile
AAQ1	Palavalasa village	21.4	34.1	27.8	33.5	48.2	62.3	53.9	59.9
AAQ2	Appikonda village	20.6	30.1	24.6	29.4	42.3	59.1	49.6	58.8
AAQ3	Devada village	21.3	37.7	27.8	37.1	48.5	63.7	54.8	62.6
AAQ4	Cheepurupalle village	20.1	31.8	23.9	30.1	41.7	59.3	49.5	58.6
AAQ5	Dasaripeta village	19.4	36.7	24.5	35.0	43.7	59.0	50.5	58.6
AAQ6	Islampeta village	19.2	35.2	24.6	35.0	45.1	61.3	50.7	58.7
AAQ7	Pittavanipalem village	24.6	41.6	31.5	40.7	48.5	68.1	55.6	67.6
AAQ8	Kalapaka village	18.4	39.0	25.8	38.8	43.7	60.5	51.2	59.0

*Note: (Concentrations are expressed in $\mu\text{g}/\text{m}^3$)

Location Code	Location	SO2				NOX				CO			
		Min	Max	Avg	98% tile	Min	Max	Avg	98% tile	Min	Max	Avg	98% tile
AAQ1	Palavalasa village	10.0	14.8	12.0	14.4	11.4	16.2	13.9	16.1	247	362	306	354
AAQ2	Appikonda village	9.8	13.0	11.3	12.7	11.5	15.1	13.2	14.7	232	368	297	358
AAQ3	Devada village	10.3	14.7	11.9	13.9	11.1	16.2	13.7	16.0	248	360	304	352
AAQ4	Cheepurupalle village	9.1	12.8	11.2	12.6	11.6	14.3	13.1	14.3	234	361	300	356
AAQ5	Dasaripeta village	10.1	13.6	11.8	13.6	12.2	15.2	13.7	15.1	232	373	296	364
AAQ6	Islampeta village	10.1	13.1	11.5	12.9	10.4	15.1	13.3	14.6	234	363	299	359
AAQ7	Pittavanipalem village	10.1	14.9	12.2	14.7	12.0	16.6	14.2	16.5	245	370	307	363
AAQ8	Kalapaka village	9.9	12.7	11.2	12.7	11.6	15.2	13.2	15.0	231	370	299	361

*Note: (Concentrations are expressed in $\mu\text{g}/\text{m}^3$)