

VEDANTA LIMITED, JHARSUGUDA

Compliance Status on

Change in conditions stipulated in the Environmental Clearances of the Thermal Power Plants and Coal Mines in line with the Fly Ash Notification and subsequent amendments, Office Memorandum no. F.No. 22-13/2019-IA.III dated 28.08.2019

Sl. No.	CONDITIONS	COMPLIANCE STATUS
1.	General Comment	-
2.	General Comment	-
3.	General Comment	-
4.	General Comment	-
5.	General Comment	-
6.	General Comment	-
7.	In view of the recommendation of EAC (Thermal Power) in its Meeting held on 12.07.2019, after careful examination of the matter and to meet the objectives of the Fly Ash Notification, 1999 and its amendments, the Ministry hereby stipulates the following conditions in the existing Environmental Clearances of Thermal Power Plants and Coal mines which have valid Environmental Clearances accorded by the Ministry/ SEIAA, that will replace the existing conditions (Specific & General) which prohibited the use of fly ash in abandoned mines/ low lying areas/ soil conditioner in agriculture.	Noted and will be complied.
i.	The guidelines prepared by CPCB for disposal of fly ash for reclamation of low lying areas and in stowing/ backfilling of	Being Complied.

	abandoned mines/ quarries shall be followed during disposal of ash in abandoned or working mines, as annexed.	
ii.	There should at least clearance of 500 m of safe distance be maintained from river and water body in case of ash disposal in abandoned mines to prevent embankment failures and fly ash flowing in to the nearby water body.	The clearance of 500 m safe distance will be maintained from river and water body in case of ash disposal in abandoned mines.
iii.	The top layer of fly ash disposal area in the abandoned mines shall be kept moist during disposal	The top layer of ash disposal area in the abandoned mines will be kept moist during disposal.
iv.	Top layer of the disposed area should have 70 cm overburden or gravels/ stones and then 30 cm sweet soil cover. Subsequently the vegetation shall be raised on the soil cover.	Will be complied.
v.	Bioaccumulation and bio-magnification tests shall be conducted on surrounding flora and fauna (tree leaves, vegetation, crop yields and cattle population) during pre- monsoon and post monsoon to find out any trace metals escaped through groundwater or runoff.	Bioaccumulation and bio-magnification tests will be conducted on surrounding flora and fauna (tree leaves, vegetation, crop yields and cattle population) during pre- monsoon and post monsoon.
vi.	Surface runoff and supernatant water, in any case shall not be let in to the surrounding areas. It shall be collected by providing adequate drains around the mines. The supernatant water along with surface runoff shall be treated and re-used for mixing ash and plant operations.	Surface runoff and supernatant water will be collected, treated and re-used for mixing ash.
vii.	To the extent possible, only decanted water from mine, make up water from treated effluents such as cooling tower blow down and treated sewage water shall be used for making ash slurry.	Being complied.
viii.	Fly ash to be used as soil conditioner in agriculture needs and to be applied in controlled manner to limit excessive application so as to prevent soil degradation. The optimize proportion of ash to be	Will be complied as and when fly ash will be utilised as soil conditioner in agriculture needs.

	applied which is to be certified by the State Agricultural Universities/colleges based on the soil testing.	
ix.	Approval from DGMS shall be obtained before disposing the ash in the mine voids.	Approval from DGMS will be obtained prior to disposal of ash in the mine voids
x.	Technology for conversion of fly ash in to coarse granules for stowing in the underground mines to be explored.	Technology for conversion in to coarse granules will be explored.
xi.	All the power plants should install different silos for dry collection of fly ash.	Separate Silos have been installed for dry collection of fly ash.
xii.	Records pertaining to details of month-wise quantity of fly ash disposed and water consumption along with nature/ source of water shall be maintained and submitted to Ministry/Regional office annually.	Will be complied.
xiii.	Before starting the disposal of ash in to the mine voids, NOC/Permission from the mine owner is to be obtained in case the mine closure activities are not completed or State Government in case the mine has been handed over to the state Govt. after its closure. A copy of such NOC/Permission is to be submitted to the Ministry and its Regional Offices.	Will be complied as and when disposal of ash in to the minivoid will start.