

UAIL /ENV/2023-24/04

May 29, 2023

To,

The Addl. Principal Chief Conservator of Forest (C)  
MoEF & Climate Change, Govt. of India  
Eastern Regional Office  
A/3, Chandrasekhar  
Bhubaneswar 751023.

**Subject:** Half yearly compliance Status of Environment Clearance condition pertaining to Alumina Refinery, M/s Utkal Alumina International Ltd, Doraguda for the period From **October'2022 to March'2023.**

Ref: You're Office Memorandum No. **J-11011/753/2007-IA II (I) dated 25.06.2018**

Dear Sir,

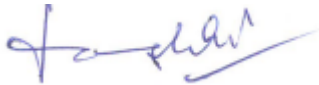
Pleased find enclosed herewith half yearly compliance status on Environmental Clearance pertaining to Alumina Refinery, M/s Utkal Alumina International Ltd, Doraguda for the period from **October'2022 to March'2023** with respect to our Expansion Project of Alumina Refinery (1.5 to 3.0 MTPA) and Co- Generation Power Plant (90 to 150 MW) vide **Ministry's letter No. J-11011/753/2007-IA II (I) dated 25.06.2018**

This is for your kind information and necessary record please.

Thanking you,

Yours faithfully,

**For Utkal Alumina International Ltd.**



**Mazharullah Beig**

**Unit Head & President**

Encl: As above.

**Copy To:** (i) Member Secretary, OSPCCB, Bhubaneswar.  
(ii) Regional Office, CPCB, Kolkata.  
(iii) Regional Officer, OSPCCB, Rayagada.

**Status of conditions imposed in Environmental Clearance for proposed enhancement of production capacity of Alumina Refinery (1.5 to 3.0 MTPA) along with Cogeneration Power Plant (90 to 150 MW), F. No. J-11011/753/2007-IA.II (I) dated 25.06.2018**

**Name of the Project** : UTKAL ALUMINA INTERNATIONAL LTD.  
**Clearance Letter No. and date** : F. No. J-11011/753/2007-IA.II (I) dated 25.06.2018  
**Period of Compliance Report** : 1<sup>st</sup> Oct 2022 to 31<sup>st</sup> March 2023

Sl. No.	Imposed Condition	Compliance Status
1	The PP shall implement recommendations of the approved Site-Specific Conservation Plan & Wildlife Management Plan in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report.	As per the recommendation of the study on Site-Specific Conservation Plan & Wildlife Management Plan, sum of Rs. 1, 17, 57,852/- has been deposited in the CAMPA fund for the purpose of implementation of various activities within the project impact area by the Forest Department as envisaged in the plan. However, awareness has been created in the periphery of the project site as per the plan.
2	The red mud already generated from the existing plant shall be stored in the red mud pond lined with impervious clay prior to use to prevent leakage, designed as per the CPCB guidelines with proper leachate collection system. Ground water shall be monitored regularly all around the red mud disposal area and report submitted to the Regional Office of the Ministry. Proper care shall be taken to ensure no run off or seepage from the red mud disposal site to natural drainage. Plan shall be prepared and implemented for utilising the already generated red mud in a time bound manner.	Red mud pond has been constructed as per the design and drawing approved by State Pollution Control Board vide their Letter No. 19306/IND-IV-HW-931 dated 30.08.2012. The red mud pond is lined with clay & 1.5 mm HDPE liner with sub-soil drainage collection & reuse system, run-off drainage network and leachate collection facility. The semi-dry red mud cake generated from red mud filtration unit is being stored in the active red mud pond- A/B. Piezometers have been installed near the Red Mud Pond for monitoring of ground water. Monitoring of ground water is being carried out regularly. The results of ground water quality are found well within the norms and the same is attached in <b>Annexure-I</b> .  The following provisions has been made to ensure the storm water management:  i. Garland drains have been provided all around the Red Mud Pond to divert the storm water of adjacent area to natural nallah.  ii. Drain and collection pit has been arranged within the mud stacking pond and the accumulated water is being pumped back to the same process or collected in the supernatant water storage pond- C for continuous recycle & use in the process.  iii. Drains have been provided adjacent to dyke of active pond- A/B and channelized to pond- C.

		<p>iv. Water quality of nearby river is being monitored regularly to check contamination if any and the results are attached in <b>Annexure-VI</b>.</p> <p>Red Mud Utilization Plan:</p> <p>R&amp;D scheme has been developed with various research laboratories like CRRI, IIT, IMMT, NML, and Cement Industries for its productive utilization in road construction applications, cement production and Mine void backfilling.</p> <p><b>Status of Pilot Study for Red Mud utilization in mine void backfilling:</b></p> <p>This is to further update about the progress made in the pilot project till date. The project is moving ahead with synchronisation of regulatory clearances from State Pollution Control Board and other authorities.</p> <ol style="list-style-type: none"> <li>1. Approval of revised Mining and Progressive Mine Closure Plan incorporating the red mud pilot project has been obtained from Indian Bureau of Mines, Regional Office, Bhubaneswar.</li> <li>2. CTE &amp; CTO are obtained from OSPCB for Mine Void Filling of Red Mud in Pit1 having capacity of 35,000 Cum, at our Baphlimali Mines.</li> <li>3. Red Mud mine void filling work is under progress.</li> <li>4. Air Pollution Control measures in form of mobile water sprinkling arrangements, vehicle mounted misting canons at fine handling areas, wheel washing facility for trucks, Tarpaulin tying platform are being provided.</li> <li>5. Backfilling work started in Pit-1 from December'2022.4873 MT red mud dispatched for Mines backfilling till March 2023.</li> </ol> <p>49584 MT Red Mud supplied to UltraTech Cement, Maharashtra &amp; Balaji Cement, AP. 4795 MT red mud dispatched to NHAI for road making.</p>
3	<p>Water spraying on the red mud pond shall be arranged to prevent fine dust from being blown off the stack. Longer-term treatment of the red mud shall include reclamation of the mud ponds, neutralization, covering with topsoil, and planting with vegetation.</p>	<p>Fixed rain gun water sprinkling system has been provided at red mud pond to prevent dust from red mud pond area. In addition to this, water tankers are being deployed for water sprinkling on haulage roads of the red mud pond.</p>

		Presently, mud stacking is going on in Pond-B and it is in active stage. However, the longer-term treatment will be prepared once the red mud pond is ready to be closed.
4	Decanted water from red mud pond is collected in the Process Water Lake during the monsoon and the same water recycled back to the process through pumping arrangements.	Since, filter plant is established to produce red mud in semi dry condition, no decant water from red mud pond is generated except the precipitation water collected during monsoon season. Red mud slurry from the plant is fed to Red Mud Filtration unit where in the dry mud cake is stacked in red mud pond and the filtrate is recycled back to the process. The decanted water (run-off) from the Red Mud Pond-A/B is collected in Pond-C and the same water is entirely recycled back to the process through pumping arrangement.
5	100 % of the fly ash generated shall be utilised.	The plant is situated at a remote place and no cement industry exists within 150 km radius of the plant. However, we have developed local entrepreneurship to establish fly ash brick manufacturing units in coordination with Regional Industrial Centre, Rayagada and now 20 nos. of brick manufacturing units are established. Ash supply to brick units is 16168 MT till March-2023 (For FY 2022-23, total ash supplied was 27329 MT. Efforts are being taken continuously for 100% ash utilization. Ash utilization for the period of October'2022 to March'2023 is 91%. 27329 MT & 129445 MT Fly Ash supplied to Brick Manufacturing Unit, & Cement Industries respectively.
	The company shall construct separate RCC drains for carrying storm water inside the plant.	A dedicated RCC storm water drainage network has been provided connecting all drains and diverted to a pond, called Guard Pond for sedimentation & neutralisation if required.
7	The water drawl shall not exceed 20,000 m3/day (existing and the expansion project put together).	Intake Water drawn & used from San River is within the permissible limit of 20000 m3/day. Average daily drawl of water from April'2022 to September'2022 is 15560 m3/day.
8	An amount of Rs Rs. 135.8 Crores (2.5% of Project cost of Rs. 5432.00 Crore) proposed towards Corporate Environmental Responsibility shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.	The Expenditure towards ESC was Rs. 21.01 Cr for FY 2022-23 and the details of the same was submitted as Annexure-III.
9	Green belt shall be developed in 353 Ha equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall	Green belt is being developed preferring indigenous species during monsoon season of every year as per CPCB Guidelines. Till now an area of 332 Ha has been covered for green belt



	inter alia cover the entire periphery of the plant.	development against total acquired area of 1069.51 Ha which is 32 %. Target to plant 50,000 sapling in each year, which is 20 Ha Annually. Greenbelt development will continue in the coming years to achieve 353Ha (33%).
10	The Capital cost Rs. 255.00 Crore and annual recurring cost Rs. 5.55 Crores towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.	Separate funds provision is made and earmarked for environmental protection purpose only. The capital cost incurred towards environmental protection measures was Rs.10.6 Crores and the annual recurring expenditure was Rs. 89.5 Crores for FY 2022-23. The details of the same was submitted in the last six monthly report.
11	Kitchen waste shall be composted or converted to biogas for further use.	Agreed.
12	The project proponent shall (Air Quality Monitoring):	
	a. install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 742 (E) dated 30th August 1990 and thereafter amended vide G.S.R 46 (E) dated 3rd February 2006 (Aluminium); S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Continuous emission monitoring systems have been provided in the running Cogeneration thermal power plant and Calciners of the alumina refinery. These Continuous Emission monitoring systems have been connected with the servers of the OSPCB & CPCB for continuous online transmission of the data through RTDAS. The CEMS is calibrated as per the supplier specification. Remote calibration facility for the CPP gaseous emission has also been provided as per the CPCB guideline.  Similar system shall be installed in the proposed expansion.
	b. Monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Fugitive emission monitoring at specified locations in the plant is being carried out through NABL accredited laboratory and the analysis reports are attached in <b>Annexure-IV</b> .
	c. Install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	Four numbers of CAAQMS are in operation & as per the OSPCB directive to monitor the ambient air quality for the parameters PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>2</sub> and CO on continuous basis. Real-time data is connected to SPCB server.
	d. submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring for calibrations of CEMS and manual monitoring of air quality /fugitive	

	emission to Regional Office of MoEF&CC, Zonal office of SPCB along with six monthly monitoring report.	
13	The project proponent shall (Water Quality Monitoring):	
	<p>a. install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 742 (E) dated 30th August 1990 and further amended vide G.S.R 46 (E) dated 3rd February 2006 (Aluminium); S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<p>The waste water generated in the Alumina refinery are alkaline in nature. All these waste water from the process is centrally collected through a dedicated drainage system (RCC) in a concrete pond called the Caustic Pond, bottom lined with LDPE. The waste water so collected is entirely recycled back to the process.</p> <p>Similarly, in the CPP, the blow down water from the Boilers and the Cooling Towers along with the DM Plant waste water are collected in a Holding Pond after sedimentation and neutralization. This water is also entirely reused for sprinkling in CHP, AHP, Roads and Ash conditioning.</p> <p>Similarly, the surface run-off water is also collected centrally in a pond called the Guard Pond having neutralization system at the inlet with continuous pH monitoring. This water is also entirely recycled into the process for Red Mud washing except during heavy rain fall.</p> <p>Thus, the waste water generated is being reused in the process and no waste water is discharged to outside the plant as the plant operates on a Zero Discharge principle.</p> <p><b>The zero-discharge condition is ensured by continuous surveillance through web camera and flow meter as per CPCB guidelines and the same also connected to the SPCB/CPCB server.</b></p>
	<p>b. monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories; and</p>	<p>Ground water quality is being monitored in and around the plant premises through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratory M/s Visiontek Consultancy Services PVT. Ltd. Bhubaneswar. Ground Water Analysis report is enclosed in <b>Annexure-VI</b>.</p>
	<p>c. submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&amp;CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>Since, it is a Zero discharge plant, no effluents are being discharged. Surface run-off &amp; storm water during monsoon season is discharged through the guard pond and the same is under continuous surveillance through IP Camera &amp; flow meter which is hooked to CPCB/SPCB server. Hence continuous online effluent monitoring system has not installed. However, manual ground water</p>

		<p>quality is being monitored in and around the plant premises. Analysis report of Ground Water is enclosed in <b>Annexure-VI</b>.</p>																														
14	<p>The project proponent shall (Air Pollution Control):</p> <p>a. ensures ambient air quality around the project site as prescribed under National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16<sup>th</sup> November, 2009 (as amended from time to time).</p>	<p>Ambient air quality is being monitored by establishing six nos. of AAQ stations inside and outside the plant premises in addition to four CAAQMS.</p> <p>The summary of the ambient air quality monitoring data during the period October'2022 to March'2023 is as below.</p> <p><b>Ambient Air Quality (AAQ)</b></p> <table border="1" data-bbox="826 674 1449 1048"> <thead> <tr> <th>Parameter</th> <th>Max.</th> <th>Min.</th> <th>Avg.</th> <th>NAAQS</th> </tr> </thead> <tbody> <tr> <td>PM<sub>10</sub> (µg/m<sup>3</sup>)</td> <td>58.94</td> <td>52.09</td> <td>56.39</td> <td><b>60</b></td> </tr> <tr> <td>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</td> <td>32.64</td> <td>28.61</td> <td>31.08</td> <td><b>40</b></td> </tr> <tr> <td>SO<sub>2</sub> (µg/m<sup>3</sup>)</td> <td>12.78</td> <td>9.94</td> <td>11.7</td> <td><b>50</b></td> </tr> <tr> <td>NO<sub>2</sub> (µg/m<sup>3</sup>)</td> <td>22.13</td> <td>19.17</td> <td>20.99</td> <td><b>40</b></td> </tr> <tr> <td>CO (mg/m<sup>3</sup>)</td> <td>0.56</td> <td>0.37</td> <td>0.49</td> <td><b>04</b></td> </tr> </tbody> </table> <p><i>From the above test results, it is evident that all the parameters are within the prescribed standard of National Ambient Air Quality and there is no deviation from NAAQS.</i></p>	Parameter	Max.	Min.	Avg.	NAAQS	PM <sub>10</sub> (µg/m <sup>3</sup> )	58.94	52.09	56.39	<b>60</b>	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	32.64	28.61	31.08	<b>40</b>	SO <sub>2</sub> (µg/m <sup>3</sup> )	12.78	9.94	11.7	<b>50</b>	NO <sub>2</sub> (µg/m <sup>3</sup> )	22.13	19.17	20.99	<b>40</b>	CO (mg/m <sup>3</sup> )	0.56	0.37	0.49	<b>04</b>
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	<p>b. provide appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.</p>	<p>Existing: Electrostatic precipitator (ESPs) designed to control particulate matter emissions within 50 mg/Nm<sup>3</sup> and connected to the three boilers of the Power Plant &amp; three Calciners of the Alumina Refinery with online continuous emission monitoring system.</p> <p>The following provisions have been made to control fugitive emission:</p> <p>a) Dry mud stacking system has been adopted by installing Red Mud Filtration Unit. Dry mud is being stacked by compacting and water sprinkling to check fugitive emission, with rain gun type water sprinklers.</p> <p>b) Bag filters have been provided at Bauxite crusher, coal crusher, calciner and alumina handling areas.</p> <p>c) Fixed high jet water spraying system have been installed at bauxite &amp; coal handling areas. Wagon</p>																														

		<p>Tippler with dry fog system at coal unloading area and closed type pipe conveyor system have been provided. Fully covered conveyors with dust suppression system at transfer points for bauxite transportation have been provided.</p> <p>d) Two nos wet scrubbers at lime handling area have been provided.</p>
	c. provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags;	<p>Bag filters have been provided with differential pressure transmitter which measures pressure of inlet and outlet and any high differential pressure gives indication of blockage. We have monthly schedule of cloth cleaning and inspection to ensure better maintenance of the bags.</p>
	d. provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;	<p>Mechanised sweeping machine, industrial vacuum cleaners are being used to clean the plant roads, shop floors and other areas.</p>
	e. ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation	<p>Bauxite is transported through state-of-the-art technology, Long Distance Conveyor (LDC). The entire conveyor length of 18.4 kms is covered with hood to prevent spillage &amp; dust generation. Coal is conveyed through a pipe conveyor. Other raw materials like lime and coal are transported through rail and covered conveyor system inside the plant.</p>
	f. provide covered sheds for raw materials like bauxite, coal, etc;	<p>Covered shed is already provided for coal &amp; lime and construction of shed is under progress for Bauxite. However, bauxite is being stored under tarpaulin cover.</p>
	g. recycle alumina dust collected in ESPs installed in calciner.	<p>Alumina dust collected in ESP is recycled through pneumatic conveying system which is part of the design.</p>
15	The project proponent shall (Water Pollution Control):	
	a. adhere to 'zero liquid discharge';	<p>The concept of zero discharge is being strictly followed.</p>
	b. provide Sewage Treatment Plant for domestic wastewater; and	<p>The domestic waste water after treatment in Sewage Treatment Plant (STP) is being utilized for green belt development. Analysis Report of STP treated water is enclosed in <b>Annexure-VII</b>.</p>
	c. provide garland drains and collection pits for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	<p>The surface run-off water from bauxite &amp; coal handling area is collected centrally in the RCC lined Settling Pond.</p>
16	The project proponent shall (Water Conservation):	
	a. practice rainwater harvesting to maximum possible extent; and	<p>Bayer's process is alkaline in nature and hence rain water harvesting inside the plant is not possible. The rain water during rainy season is</p>

		being collected in guard pond, caustic pond, holding pond and RMP is reused in the process avoiding usage of fresh water. However, six recharge pits have been constructed to harvest roof top rain water for ground water recharge at the township.
	b. reduce water consumption in bauxite beneficiation and alumina refinery by concentrating the solids in the tailings;	Bauxite beneficiation is not a part of our process. Hence, this not applicable to us. In this regard, we had already requested your good office to waive off this condition vide our letter no. UAIL/ENV/2018-19/96 dated 16.07.2018. However, the tailings from alumina refinery is being disposed using High Concentration Slurry Disposal (HCSD) having 60% solids to state of the art & latest red mud filtration (RMF) unit as per the CREP guidelines. Disposal of red mud through pressure filters having 80% solids on impervious ponds has saved water consumption due to water recycle in the form of filtrate of the RMF unit. Red Mud Filtration has helped in reducing water consumption.
17	The project proponent shall (Energy Conservation):	
	a. provide waste heat recovery system (pre-heating of combustion air) at the flue gases.	This is part of the design in the Calciner & CPP units.
	b. provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly; and	Solar power plant of capacity 5 MW is already installed & commissioned at our township during the month January 2020. The entire solar power generated is being utilised both in plant and township.
	c. Provide the project proponent for LED lights in their offices and residential areas.	LED lights have already been provided at plant as well townships.
18	Used refractories shall be recycled as far as possible.	No used refractory sold during the reporting period. Used Refractory around 171.81 MT supplied to M/S Ambuja Cement for FY 2022-23.
19	Oily scum and metallic sludge recovered from ETP shall be mixed, dried, and briquetted and reused.	It is an Alumina Refinery plant and site-specific effluent treatment facility have been provided and the treated effluents are being reused. There is no generation of oily scum and metallic sludge in the process. In this regard, we had already requested your good office to exclude this condition vide our letter no. UAIL/ENV/2018-19/96 dated 16.07.2018.
20	The project proponent shall prepare GHG emissions inventory and shall submit the programme for reduction of the same including carbon sequestration including plantation.	The source of GHG emissions are coal fired boilers of CPP and FO used Calciner Burners. Utilization of coal & FO has been reduced by optimizing energy utilization. The other programs are (i) commissioning of 5 MW solar energy Plant for fully utilization in plant & township (ii) mass

		plantation around the plant area. Noted for compliance.
21	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency Preparedness Plan on the basis of HIRA and Disaster Management Plan has been prepared & implemented. The DMP is approved by the Director of Factories & Boilers, Odisha.
22	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Heat stress analysis of workmen of high temperature work zone is being carried out and PPEs like high temperature resistant suits are being provided as per the norms of Factory Act.
23	The project proponent shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.	Agreed, followed and informed.
24	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses.	Provided.
25	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Fly ash is being supplied to fly ash brick manufacturing units, cement industry, used in dyke height raising, road making and land development. The agreement/order for lifting the fly ash with the brick manufacturers is attached as <b>Annexure VIII</b> .
26	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium Industry shall be implemented.	As per CREP guideline, two issues (i) Phasing out of wet disposal of Red Mud & (ii) Utilisation of Red mud come under the purview of Alumina Refinery Plant.  Red Mud is disposed using High Concentration Slurry Disposal (HCSD) with 60% solids to red mud filtration unit as per the CREP guidelines. The filtered cake is being stored in the impervious Bauxite residue pond. Utilisation plan is made as intimated in the earlier conditions.
27	A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.	An independent environment management cell has been established by the unit for monitoring of environmental parameters and implementation of effective control measures related to environment management. The head of the environment cell is directly reporting to the unit head of Utkal.

28	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Mobile toilets, sewage treatment plant, safe drinking water, medical health care unit, crèche etc. have been provided inside the proposed expansion site. As the existing plant is in running condition, the housing for the construction labour is provided outside the plant with all necessary infrastructure.
29	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed & being adhered.
30	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted & Agreed.
31	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Hazardous waste is being disposed to the authorized recyclers/ reprocessors of CPCB as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
32	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Noise control measures have been implemented to maintain the noise levels within the norms. Noise level analysis report for the period October'2022 to March'2023 is enclosed at <b>Annexure-IX</b> .
33	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	1. Pre-employment Health check-up is being carried out for all the employees at the time of joining. 2. As per The Factories Act –1948 periodical Health check-up is being carried out on annual basis for all the employees and records are maintained and submitted to the Director of Factories & Boilers, Odisha.
34	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Agreed & being implemented.
35	The project proponent shall (Post-EC Monitoring):	
	a. send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;	Complied.
	b. put on the clearance letter on the web site of the company for access to the public.	Complied. Environmental Clearance (EC) was uploaded in our company website ( <a href="http://www.hindalco.com/upload/pdf/EC-alumina-refinery-expansion-power-plant-90MW-2018.pdf">http://www.hindalco.com/upload/pdf/EC-alumina-refinery-expansion-power-plant-90MW-2018.pdf</a> )

	<p>c. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&amp;CC) at <a href="http://envfor.nic.in">http://envfor.nic.in</a>.</p>	<p>The same was published in local newspapers namely "The political business daily" in English and "The Sambada Kalika" in Odia that are widely circulated in the region.</p>
	<p>d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;</p>	<p>The status of compliance of the stipulated environmental clearance conditions including the results of monitored data is being submitted along with half yearly compliance report and the same is uploaded periodically in our website (<a href="http://www.hindalco.com/upload/pdf/utkal-half-yearly-ec-comp-April'22-September'22.pdf">http://www.hindalco.com/upload/pdf/utkal-half-yearly-ec-comp-April'22-September'22.pdf</a>)</p>
	<p>e. monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;</p>	<p>Ambient air quality and stack emission monitoring is being carried out and the results of the monitored parameters are displayed through digital display board provided at main gate for the public view. These monitored results are uploaded periodically in our website <a href="http://www.hindalco.com/upload/pdf/utkal-alumina-half-yearly-compliance-report-April'22-September'22.pdf">http://www.hindalco.com/upload/pdf/utkal-alumina-half-yearly-compliance-report-April'22-September'22.pdf</a></p>
	<p>f. submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&amp;CC, the respective Zonal Office of CPCB and the SPCB;</p>	<p>Six monthly reports are being submitted regularly to Regional Office of the Ministry at Bhubaneswar / Central Pollution Control Board / SPCB, Odisha with in stipulated time. However, as per the new notification, six monthly compliance report is being submitted in soft copy.</p>
	<p>g. submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;</p>	<p>Environment Statement for each financial year is being submitted annually to SPCB. The latest Environment Statement for 2021-22 was submitted to SPCB &amp; MoEF &amp; CC on 28-09-2022 &amp; uploaded in the Company Website.</p>
	<p>h. inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p>	<p>Date of financial approval: 06.01.2018 Date of land development work: 24.08.2018</p>
36	<p>The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</p>	<p>Agreed.</p>



37	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted & Agreed.
38	The PP shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent	Agreed.
39	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted
40	This EC is issued in suppression of the earlier EC vide F. No. J-11011/753/2007-IA-II(I) dated 29.01.2018	Noted
41	This is EC issued subject to the outcome of the court case in W.P.No. 5697 of 2007 (Prafulla Samantray Vs Union of India & Others) before High Court of Odisha.	The said W. P.No. 5697 of 2007 was dismissed as withdrawn being infructuous. The outcome of the W.P. issued by High Court of Odisha is submitted to your good office along with six monthly compliance report for the period Apr'19 to Sept'19 vide our letter no. UAIL/ENV/2019-20/25 dated 29-11-2019.Hence complied.
42	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.



- Infrastructure Engineering
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- Mineral/Sub-Soil Exploration
- Waste Management Services

Ref: Envlab/23-24/TR-02439

Date: 27.05.2023

## ANNEXURE-I

Ground Water Quality

Period: Oct'22 - Mar'23

Piezometer at Red Mud Pond

Sl. No.	Parameters	Unit	IS-10500 Standards	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	Color	Hazen	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.72	7.55	7.57	7.25	7.28	7.32
4	Turbidity	NTU ,Max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	238.0	250.0	249.0	252.0	248.0	247.0
6	Temperature	°C	-	27.3	26.2	26.4	29.7	25.4	27.4
7	Conductivity	µS/cm	-	360.5	386.4	387.3	388.5	394.6	390.3
8	Calcium (as Ca)	mg/l, max	75	30.5	30.5	31.6	33.5	36.7	34.2
9	Chloride (as Cl)	mg/l, max	250	27.5	34.8	35.2	37.6	41.5	42.7
10	Copper ( as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.33	0.28	0.29	0.31	0.27	0.29
12	Free residual Chlorine	mg/l, min	0.2	<0.1	ND	ND	ND	ND	ND
13	Iron (as Fe)	mg/l, max	1.0	0.33	0.32	0.33	0.35	0.31	0.34
14	Magnesium (as Mg)	mg/l, max	30	7.2	9.1	8.5	7.7	4.8	6.6
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium (as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO <sub>4</sub> )	mg/l, max	200	16.8	16.3	16.6	18.5	21.8	22.5
21	Total Alkalinity	mg/l, max	200	82.3	80.3	80.5	82.4	77.4	75.8
22	Total Hardness	mg/l, max	200	95.0	113.5	113.8	115.4	111.4	112.6
23	Zinc (as Zn)	mg/l, max	5	0.13	0.15	0.16	0.19	0.21	0.23
24	Cadmium (as Zn)	mg/l,Max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l,Max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l,Max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury( as Hg)	mg/l,Max	0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l,Max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l,Max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	ND	ND	ND	ND	ND	ND

Reviewed by:   


Approved by:   


<b>Annexure-II</b>	
<b>ENTERPRISE SOCIAL COMMITMENT (FY 2022-23)</b>	
<b>Utkal Alumina International Ltd. Doraguda, Rayagada</b>	
<b>Enterprise Social Commitment</b>	<b>Amount in Rs.</b>
<b>(A) Health Care, Eradicating Hunger, Poverty and Malnutrition</b>	
Preventive Health Care	0.00
Curative Health Care Program	0.00
Quality/Support Program	0.00
Health Infrastructure	2,51,13,648.42
<b>Sub Total (A)</b>	<b>2,51,13,648.42</b>
<b>(B) Promoting Education and Employment Enhancing Vocation Skills</b>	
School Education Program (SEP)	0.00
School Infrastructure	1,23,50,506.58
<b>Sub Total (B)</b>	<b>1,23,50,506.58</b>
<b>(C) Social Empowerment ,promoting gender equality, empowering women</b>	
Social Security	0.00
<b>Sub Total (C)</b>	<b>0.00</b>
<b>(D) Ensuring environmental sustainability</b>	
Agriculture and Farm Based	0.00
Non farm & Skills based income generation program	0.00
Livelihood Infrastructure	1,91,67,603.00
<b>Sub Total (D)</b>	<b>1,91,67,603.00</b>
<b>(E) Promotion of Heritage/Art and Culture/Sports</b>	
<b>(F) Promotion of Sports</b>	0.00
<b>(G) Rural Infrastructure Development</b>	0.00
<b>Grand Total</b>	<b>5,66,31,758.00</b>

<b>Annexure-II</b>	
<b>CSR Expenditure (FY 2022-23)</b>	
<b>Utkal Alumina International Ltd. Doraguda, Rayagada</b>	
<b>Corporate Social Responsibility Focus Areas</b>	<b>Amount in Rs.</b>
<b>A. Health Care, Eradicating Hunger, Poverty and Malnutrition</b>	
Preventive Health Care	76,69,667.80
Curative Health Care Program	5,54,06,907.00
Quality/Support Program	56,55,612.17
Health Infrastructure	2,28,54,456.34
<b>Sub Total (A)</b>	<b>9,15,86,643.31</b>
<b>B. Promoting Education and Employment Enhancing Vocation Skills</b>	
School Education Program	2,62,58,954.67
Education Support Programs	14,08,986.00
School Infrastructure	8,15,602.75
<b>Sub Total (B)</b>	<b>2,84,83,543.42</b>
<b>C. Social Empowerment ,Promoting Gender Equality, Empowering Women</b>	
Institutional building & strengthening	-
Social Security	29,37,491.00
Awareness Programmes	3,92,430.00
Social Events to minimise causes of poverty	1,98,174.00
<b>Sub Total (C)</b>	<b>35,28,095.00</b>
<b>D. Ensuring Environmental Sustainability</b>	
Agriculture and Farm Based	1,85,04,857.04
Animal Husbandry	11,150.00
Non farm & Skills based income generation program	1,25,18,233.31
Natural Resource conservation programs & Non conventional Energy	64,59,233.18
Livelihood infrastructure	24,54,370.73
<b>Sub Total (D)</b>	<b>3,99,47,844.26</b>
<b>E. Promotion of Heritage/Art and Culture/Sports</b>	50,40,063.20
<b>F. Promotion of Sports</b>	9,12,484.79
<b>G. Rural Infrastructure Development</b>	4,06,20,421.08
<b>H. Disaster Relief Program's</b>	0.00
<b>Grand Total</b>	<b>21,01,19,095.06</b>

**Annexure-III**

**Utkal Alumina International Ltd.**

**Capital Cost for Environmental Protection Measures for FY2022-23**

Sl. No.	Particulars	Name of Equipment	Rs. In Lakhs
<b>I</b>	<b>AIR POLLUTION CONTROL</b>		
1	Electrostatic precipitator	ESP (Calcination)	15
2	Chimney	Stack (Calcination)	0
3	Flue Gas Desulphurization System unit for boilers		0
4	Dust Collector — Bag Filters	Bag Filters (BHP)	1.1
		Bag Filters (Calcination)	2
5	Water Sprayer (Stationary)	DSS (BGP)	5
		DFDSS (BHP)	1
		Calcination	
6	Sheeting work in MOL area		21
7	Sheeting work in LDC area		8.9
	<b>Sub-Total (I)</b>		<b>54</b>
<b>II</b>	<b>WATER POLLUTION CONTROL</b>		
1	Domestic effluent treatment plant		0
2	Industrial ETP		0
3	Storm water drains, Caustic drain		255
4	Caustic Pond/Guard Pond		0
5	Sewage System		0
6	Ash Pond/Red Mud Pond lining		0
7	Sump Pit & Pumps		0
	<b>Sub-Total (II)</b>		<b>255</b>
<b>III</b>	<b>NOISE POLLUTION CONTROL</b>		
			250
<b>IV</b>	<b>ENV. MONITORING AND LAB INSTRUMENTS</b>		
			113
<b>V</b>	<b>OCCUPATIONAL HEALTH &amp; FIRE FIGHTING SYSTEM</b>		
1	Occupational Health Equipment		0
2	Fire Fighting Equipment & Network System		233
<b>VI</b>	<b>GREEN BELT &amp; PLANTATION</b>		
			155
<b>VII</b>	<b>RAIN WATER HARVESTING</b>		
			0
	<b>GRAND TOTAL</b>		<b>1060</b>

**Recurring Annual Cost for Environmental Protection Measures for FY2022-23**

Sl. No.	Particulars	Rs. In Lakhs
1	Air Pollution Control	2801.02
2	Water Pollution Control	18.00
3	Waste Management	5562.20
4	Noise Pollution Control	250.00
5	Environmental Monitoring and Management	113.27
6	Occupational Health	42.65
7	Green Belt & Plantation	155.00
8	Other(Environmental Studies, Expert advice etc.)	10.00
	<b>Total</b>	<b>8952</b>



- Infrastructure Engineering
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- Waste Management Services

Ref: Envlab/23-24/TR-02440

Date: 27.05.2023

## ANNEXURE-IV

Ambient Air Quality (FUGITIVE DUST) Monitoring Results							
Period: Oct-22 to Mar-23 (Monthly Average Values)							
FUGITIVE DUST	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Half Yearly Average
Alumina Handling Area	88.0	82.0	83.0	85.0	82.0	84.0	<b>84.0</b>
Bauxite Handling Area	108.0	93.0	94.0	93.0	95.0	93.0	<b>96.0</b>
Lime Handling Area	89.0	88.0	89.0	91.0	88.0	90.0	<b>89.2</b>
Coal Handling Area	95.0	98.0	99.0	97.0	93.0	91.0	<b>95.5</b>
Meterial Gate	88.0	85.0	86.0	87.0	89.0	88.0	<b>87.2</b>
Ash Handling Area	101.0	96.0	97.0	96.0	92.0	94.0	<b>96.0</b>
Traffic center	90.0	88.0	89.0	90.0	93.0	92.0	<b>90.3</b>
Rod Mill Area	91.0	91.0	92.0	91.0	88.0	89.0	<b>90.3</b>

Reviewed by: 



Approved by: 





- Infrastructure Engineering
- Water Resource Management
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- Quality Control & Project Management
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- Information Technology
- Public Health Engineering

- Mine Planning & Design
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- Waste Management Services

Ref: Envlab/23-24/TR-02441

Date: 27.05.2023

## ANNEXURE-V

Stack Monitoring Results								
Period: Oct-22 to Mar-23 (Monthly Average Values)								
<b>1. Stack Attached to Calciner - I</b>								
Parameter	Prescribed Standard	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Six Months Average
Temperature °C	....	171.3	173.3	172.5	172.5	173.5	172.0	172.5
Velocity m/sec	....	6.8	7.0	7.0	6.6	7.0	7.1	6.91
Particulate Matter mg/Nm <sup>3</sup>	50	31.5	32.1	32.6	32.4	31.3	32.4	32.0
SO <sub>2</sub> (mg/Nm <sup>3</sup> )	....	217.0	215.0	218.5	191.0	217.8	228.3	214.6
NO <sub>x</sub> (mg/Nm <sup>3</sup> )	....	157.5	154.0	147.0	144.5	145.8	148.3	149.5
<b>2. Stack Attached to Calciner - II</b>								
Parameter	Prescribed Standard	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Six Months Average
Temperature °C	....	172.8	172.3	170.5	171.5	170.8	170.8	171.4
Velocity m/sec	....	7.1	7.2	6.9	6.6	6.7	6.9	6.9
Particulate Matter mg/Nm <sup>3</sup>	50	32.8	32.8	33.3	30.9	30.7	30.7	31.9
SO <sub>2</sub> (mg/Nm <sup>3</sup> )	....	221.8	213.5	219.0	222.5	199.0	220.3	216.0
NO <sub>x</sub> (mg/Nm <sup>3</sup> )	....	153.3	155.8	156.8	157.5	156.3	228.0	167.9
<b>3. Stack Attached to Calciner - III</b>								
Parameter	Prescribed Standard	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Six Months Average
Temperature °C	....	176.00	177.25	176.75	176.33	175.50	176.00	176.3
Velocity m/sec	....	7.5	7.6	7.6	7.2	7.6	7.5	7.5
Particulate Matter mg/Nm <sup>3</sup>	50	28.9	29.8	30.6	31.6	33.2	32.4	31.1
SO <sub>2</sub> (mg/Nm <sup>3</sup> )	....	213.0	213.0	222.8	221.7	228.0	227.5	221.0
NO <sub>x</sub> (mg/Nm <sup>3</sup> )	....	153.8	149.3	154.5	143.7	144.0	151.0	149.4
<b>4. Stack Attached to Boiler, Unit-1 of Power Plant</b>								
Parameter	Prescribed Standard	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Six Months Average
Temperature °C	....	119.8	118.8	119.5	118.0	118.3	117.0	118.5
Velocity m/sec	....	13.3	12.7	12.5	13.2	13.4	13.5	13.1
Particulate Matter mg/Nm <sup>3</sup>	50	41.6	39.6	40.7	39.4	42.6	40.8	40.8
SO <sub>2</sub> (mg/Nm <sup>3</sup> )	600	513.5	511.3	513.0	510.3	514.2	498.0	510.0
NO <sub>x</sub> (mg/Nm <sup>3</sup> )	300	210.0	205.3	208.0	212.0	212.8	208.0	209.3
<b>5. Stack Attached to Boiler, Unit-2 of Power Plant</b>								
Parameter	Prescribed Standard	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Six Months Average
Temperature °C	....	120.3	123.0	Under Shutdown	124.5	123.5	117.3	121.7
Velocity m/sec	....	13.7	15.1		14.5	14.5	14.2	14.4
Particulate Matter mg/Nm <sup>3</sup>	50	41.4	41.6		40.6	40.8	40.5	41.0
SO <sub>2</sub> (mg/Nm <sup>3</sup> )	600	525.5	522.0		514.5	448.5	517.0	505.5
NO <sub>x</sub> (mg/Nm <sup>3</sup> )	300	219.5	211.5		211.5	210.8	211.5	213.0
<b>6. Stack Attached to Boiler, Unit-3 of Power Plant</b>								
Parameter	Prescribed Standard	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Six Months Average
Temperature °C	....	Under Shutdown	125.0	125.8	131.5	Under Shutdown	123.3	126.4
Velocity m/sec	....		14.9	15.0	13.4		15.2	14.6
Particulate Matter mg/Nm <sup>3</sup>	50		41.3	42.6	40.8		41.4	41.5
SO <sub>2</sub> (mg/Nm <sup>3</sup> )	600		509.5	514.8	516.5		521.3	515.5
NO <sub>x</sub> (mg/Nm <sup>3</sup> )	300		211.5	211.5	213.5		218.0	213.6

Note : No deviation is observed and all the values are within the standard prescribed under EC & CTO

Reviewed by:   


Approved by:   






- Infrastructure Engineering
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- Waste Management Services

Ref: Envlab/23-24/TR-02442

Date: 27.05.2023

## ANNEXURE-V

### Ambient Air Quality (AAQ) Monitoring Results

Period: Oct-22 to March-23 (Monthly Average Values)

AAQ-1: Admin Building	PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
Oct-22	58.4	33.1	13.6	22.5	0.53
Nov-22	59.9	33.2	13.4	22.5	0.53
Dec-22	61.1	34.0	13.5	22.5	0.54
Jan-23	62.5	34.8	13.7	22.6	0.55
Feb-23	60.2	32.8	14.2	22.6	0.55
Mar-23	61.7	34.1	14.9	22.1	0.55
Six Months Average	60.6	33.7	13.9	22.5	0.54
AAQ-2: Doraguda	PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
Oct-22	61.5	34.3	13.7	22.2	0.55
Nov-22	63.6	35.5	13.9	22.4	0.55
Dec-22	64.6	36.3	13.9	22.5	0.55
Jan-23	67.5	37.8	14.0	22.5	0.56
Feb-23	65.4	35.8	13.0	22.5	0.57
Mar-23	63.5	35.1	12.5	22.1	0.55
Six Months Average	64.3	35.8	13.5	22.4	0.56
AAQ-3: Dimundi Boundary Side	PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
Oct-22	61.7	33.9	13.6	23.3	0.60
Nov-22	62.4	34.9	13.7	23.6	0.59
Dec-22	63.8	35.3	13.7	23.8	0.59
Jan-23	65.0	36.1	13.8	22.5	0.60
Feb-23	63.4	34.1	13.2	22.5	0.60
Mar-23	63.9	35.0	13.8	21.9	0.60
Six Months Average	63.4	34.9	13.6	22.9	0.60

Note : No deviation from the NAAQS is observed and all the values are within the standard prescribed under National Ambient Air Quality Standards (NAAQS)

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- Waste Management Services

Ref: Envlab/23-24/TR-02443

Date: 27.05.2023

## ANNEXURE-V

### Ambient Air Quality (AAQ) Monitoring Results

Period: Oct-22 to Mar-22 (Monthly Average Values)

AAQ-4: BSNL Tower	PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
Oct-22	58.8	33.0	11.5	20.3	0.54
Nov-22	60.7	33.9	11.5	20.5	0.53
Dec-22	61.4	34.1	11.6	21.3	0.54
Jan-23	63.5	35.4	11.6	21.3	0.55
Feb-23	61.5	33.5	10.8	20.6	0.54
Mar-23	62.6	34.7	11.7	20.9	0.55
Six Months Average	61.4	34.1	11.5	20.8	0.54
AAQ-5: Nuapada	PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
Oct-22	60.4	33.6	13.2	22.0	0.56
Nov-22	62.1	34.9	13.2	22.0	0.56
Dec-22	62.7	35.0	13.3	21.9	0.61
Jan-23	63.6	35.9	13.4	22.0	0.62
Feb-23	61.2	33.6	12.4	21.1	0.57
Mar-23	62.1	34.7	12.5	21.2	0.57
Six Months Average	62.0	34.6	13.0	21.7	0.58
AAQ-6: Training Center	PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
Oct-22	59.0	33.0	10.4	19.2	0.38
Nov-22	60.6	34.1	10.4	19.2	0.38
Dec-22	61.6	34.3	10.6	18.9	0.41
Jan-23	64.1	35.6	10.7	19.0	0.41
Feb-23	62.2	33.7	9.8	18.0	0.41
Mar-23	61.9	34.5	10.7	17.7	0.41
Six Months Average	61.6	34.2	10.4	18.6	0.40

Note : No deviation from the NAAQS is observed and all the values are within the standard prescribed under National Ambient Air Quality Standards (NAAQS)

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Ref: Envlab/23-24/TR-02444

Date: 27.05.2023

## ANNEXURE-VI

### Ground Water Quality Period: Oct-22 to Mar-23

#### GW1: Kuchipadar

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.23	7.34	7.36	7.42	7.37	7.41
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	244.0	245.0	244.0	246.0	242.0	240.0
6	Temperature	°C	-	25.7	26.5	26.8	28.3	24.6	25.3
7	Conductivity	µS/cm	-	392.5	393.5	393.7	395.6	379.4	379.2
8	Calcium (as Ca)	mg/l, max	75	29.2	30.1	30.3	32.6	29.6	30.7
9	Chloride (as Cl)	mg/l, max	250	31.4	32.6	32.7	33.6	30.7	31.7
10	Copper ( as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.28	0.29	0.32	0.34	0.31	0.34
12	Free residual Chlorine	mg/l, min	0.2	<1.0	ND	ND	ND	ND	ND
13	Iron (as Fe)	mg/l, max	1.0	0.35	0.36	0.37	0.39	0.36	0.38
14	Magnesium (as Mg)	mg/l, max	30	7.07	6.8	6.9	6.2	7.3	6.2
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium( as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO <sub>4</sub> )	mg/l, max	200	24.6	25.6	25.8	27.8	24.7	24.5
21	Total Alkalinity	mg/l, max	200	80.3	81.2	81.4	83.6	83.2	84.6
22	Total Hardness	mg/l, max	200	102.0	103.0	104.0	107.0	104.0	102.0
23	Zinc (as Zn)	mg/l, max	5	0.81	0.33	0.35	0.32	0.28	0.25
24	Cadmium (as Cd)	mg/l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l, max	0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	ND	ND	ND	ND	ND	ND

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Ref: Envlab/23-24/TR-02445

Date: 27.05.2023

## Ground Water Quality Period: Oct-22 to Mar-22

### GW2: Baghrihala

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.39	7.42	7.45	7.34	7.36	7.32
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	217.0	218.0	217.0	219.0	216.0	214.0
6	Temperature	°C	-	28.5	29.3	29.5	31.5	28.7	27.4
7	Conductivity	µS/cm	-	340.6	341.3	342.5	345.4	374.3	338.1
8	Calcium (as Ca)	mg/l, max	75	34.3	35.8	35.6	37.8	34.5	36.2
9	Chloride (as Cl)	mg/l, max	250	27.5	28.5	28.6	31.5	31.3	33.7
10	Copper ( as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.32	0.33	0.34	0.36	0.33	0.35
12	Free residual Chlorine	mg/l, min	0.2	<1.0	ND	ND	ND	ND	ND
13	Iron (as Fe)	mg/l, max	1.0	0.36	0.37	0.38	0.42	0.38	0.32
14	Magnesium (as Mg)	mg/l, max	30	4.46	3.8	4.2	3.6	6.3	4.8
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium( as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO <sub>4</sub> )	mg/l, max	200	13.8	13.7	13.8	15.4	15.4	15.8
21	Total Alkalinity	mg/l, max	200	85.6	86.3	86.5	88.5	85.7	86.8
22	Total Hardness	mg/l, max	200	104.0	105.0	106.0	109.0	112.0	110.0
23	Zinc (as Zn)	mg/l, max	5	0.34	0.35	0.37	0.39	0.35	0.33
24	Cadmium (as Cd)	mg/l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l, max	0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	ND	ND	ND	ND	ND	ND

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Ref: Envlab/23-24/TR-02446

Date: 27.05.2023

## Ground Water Quality Period: Oct-22 to Mar-22

### GW3: Dimundi

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.23	7.26	7.28	7.48	7.43	7.45
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	234.0	235.0	237.0	240.0	236.0	234.0
6	Temperature	°C	-	25.4	26.4	26.6	27.4	27.4	26.8
7	Conductivity	µS/cm	-	368.3	369.2	370.3	373.5	384.3	369.7
8	Calcium (as Ca)	mg/l, max	75	32.4	33.6	33.8	35.6	33.2	35.7
9	Chloride (as Cl)	mg/l, max	250	30.6	31.5	317.0	319.0	29.5	30.5
10	Copper ( as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.31	0.31	0.32	0.34	0.31	0.34
12	Free residual Chlorine	mg/l, min	0.2	<1.0	ND	ND	ND	ND	ND
13	Iron (as Fe)	mg/l, max	1.0	0.32	0.33	0.35	0.38	0.35	0.39
14	Magnesium (as Mg)	mg/l, max	30	5.37	4.9	4.5	3.9	6.1	4.8
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium ( as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO <sub>4</sub> )	mg/l, max	200	12.3	13.5	13.7	15.6	13.5	13.7
21	Total Alkalinity	mg/l, max	200	69.2	70.3	70.5	72.6	70.5	70.8
22	Total Hardness	mg/l, max	200	103.0	104.0	103.0	105.0	108.0	109.0
23	Zinc (as Zn)	mg/l, max	5	0.23	0.25	0.28	0.32	0.29	0.27
24	Cadmium (as Cd)	mg/l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l, max	0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	ND	ND	ND	ND	ND	ND

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- Waste Management Services

Ref: Envlab/23-24/TR-02447

Date: 27.05.2023

## Ground Water Quality Period: Oct-22 to Mar-22

### GW4: Lachuguda

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.31	7.34	7.36	7.82	7.77	7.73
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	212.0	213.0	215.0	217.0	214.0	216.0
6	Temperature	°C	-	26.3	27.8	27.9	29.6	26.5	28.5
7	Conductivity	µS/cm	-	342.5	343.5	344.4	346.5	374.3	341.3
8	Calcium (as Ca)	mg/l, max	75	33.1	34.5	34.7	37.4	35.2	33.6
9	Chloride (as Cl)	mg/l, max	250	28.5	29.7	29.8	31.2	28.6	29.6
10	Copper ( as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.28	0.28	0.29	0.31	0.32	0.35
12	Free residual Chlorine	mg/l, min	0.2	<1.0	ND	ND	ND	ND	ND
13	Iron (as Fe)	mg/l, max	1.0	0.31	0.32	0.34	0.36	0.33	0.31
14	Magnesium (as Mg)	mg/l, max	30	2.30	1.7	1.8	0.6	3.2	4.6
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium( as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO <sub>4</sub> )	mg/l, max	200	15.3	16.4	16.6	18.4	16.3	16.5
21	Total Alkalinity	mg/l, max	200	81.6	82.5	82.6	85.3	81.6	82.4
22	Total Hardness	mg/l, max	200	92.1	93.0	94.0	96.0	101.0	103.0
23	Zinc (as Zn)	mg/l, max	5	0.17	0.19	0.22	0.25	0.21	0.24
24	Cadmium (as Cd)	mg/l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l, max	0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	ND	ND	ND	ND	ND	ND

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- Waste Management Services

Ref: Envlab/23-24/TR-02447

Date: 27.05.2023

## Ground Water Quality Period: Oct-22 to Mar-22

### GW5: Bhitor Muchikumi

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.45	7.48	7.49	7.48	7.45	7.86
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	235.0	236.0	237.0	241.0	238.0	235.0
6	Temperature	°C	-	27.6	28.5	28.7	30.7	26.2	28.5
7	Conductivity	µS/cm	-	365.4	366.8	366.9	368.4	372.6	371.3
8	Calcium (as Ca)	mg/l, max	75	34.5	35.6	35.8	37.2	35.6	36.8
9	Chloride (as Cl)	mg/l, max	250	29.3	30.2	30.3	32.6	29.4	30.3
10	Copper ( as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.28	0.31	0.32	0.35	0.39	0.39
12	Free residual Chlorine	mg/l, min	0.2	<0.1	ND	ND	ND	ND	ND
13	Iron (as Fe)	mg/l, max	1.0	0.26	0.28	0.29	0.32	0.28	0.32
14	Magnesium (as Mg)	mg/l, max	30	4.5	4.4	4.4	3.1	3.3	2.0
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium( as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO <sub>4</sub> )	mg/l, max	200	21.3	22.5	22.7	23.8	20.6	20.6
21	Total Alkalinity	mg/l, max	200	85.6	86.5	86.7	88.7	84.5	85.2
22	Total Hardness	mg/l, max	200	105.8	106.8	107.5	105.8	102.6	100.3
23	Zinc (as Zn)	mg/l, max	5	0.19	0.21	0.22	0.25	0.21	0.23
24	Cadmium (as Cd)	mg/l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l, max	0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	ND	ND	ND	ND	ND	ND

Reviewed by:



Approved by:





# Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Certified for : ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017

Accredited by : NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

Laboratory Services

Environment Lab  
Food Lab  
Material Lab  
Soil Lab  
Mineral Lab  
&  
Microbiology Lab

- Infrastructure Engineering
- Water Resource Management
- Environmental & Social Study

- Surface & Sub-Surface Investigation
- Quality Control & Project Management
- Renewable Energy

- Agricultural Development
- Information Technology
- Public Health Engineering

- Mine Planning & Design
- Mineral/Sub-Soil Exploration
- Waste Management Services

Ref: Envlab/23-24/TR-02448

Date: 27.05.2023

## ANNEXURE-VII

Treated Water (STP Outlet )Plant Period: Oct-22 to Mar-23 (Monthly Average Values)										
SL. No.	Parameters	Units	Standards (Inland Surface Water) Part-A	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Six Month Average
1	pH value		5.5-9.0	7.29	7.31	7.34	7.38	7.44	7.46	7.37
2	Faecal Coliform	MPN/100ml	--	76.4	77.2	78.2	79.5	77.3	75.6	77.4
3	Oil & Grease	mg/l, Max	10	3.3	3.2	3.3	3.6	3.7	3.6	3.42
4	N-Total	mg/l, Max	--	16.8	16.0	16.3	17.9	8.3	8.3	13.9
5	COD	mg/l, Max	250	123.0	123.9	124.7	126.5	123.5	127.7	124.87
6	BOD, 3 Days at 27°C	mg/l, Max	30	21.2	22.0	22.5	23.9	23.6	24.8	23.0
7	Suspended Solid	mg/l, Max	100	54.1	54.3	54.8	55.4	53.2	53.9	54.28
8	Ammonical Nitrogen (as NH <sub>3</sub> -N)	mg/l, Max	100	5.1	5.2	5.3	6.4	6.4	6.5	5.8

Reviewed by:



Approved by:







Ref: UAIL/SO/FA/01/22-23

Dated: 26-08-2022

M/s. Priya Fly Ash Bricks  
Kodipari,  
PS: Tikiri,  
Tikiri  
Rayagada,  
765015

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges upto your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler ✓	17 (MT)	1700 ✓
2	Transportation of Fly Ash	6 wheeler ✓	9 (MT)	1200 ✓

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of 12 months from the date of issue of this order.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department. ✓

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

Amit Panda

UTKAL ALUMINA INTERNATIONAL LIMITED

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India.

CIN No.:U13203OR1993PLC003416

Ph.: 06865287040,

Fax: 06865287100

Ph.:0674 2360581/540

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Website : www.hindalco.com

Email : utkal.alumina@adityabirla.com





Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consignor / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL's premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL's goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.





Ref: 22/MATL/FA/17

Dated: 20-09-2022

M/s. Mahaveer Bricks Industry  
RAYAGADA, JODIPADAR, KODIPARI, KASHIPUR  
765015 , ODISHA

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	2000
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1500

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weightment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weightment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

Amit Panda  
GM-Commercial

UTKAL ALUMINA INTERNATIONAL LIMITED

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consigner / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consigner / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consigner to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL's premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL's goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/20

Dated: 20-09-2022

M/s. PRAHLAD NAIK  
At-D.Koral, PO-Kucheipadar, Via-Kashipur  
Dist- Rayagada, Odisha-765015

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

Sl. no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1700
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1200

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
GM-Commercial

UTKAL ALUMINA INTERNATIONAL LIMITED

Plant & Off: Doraguda, Po: Kucheipadar, Dist: Rayagada-765015, Odisha, India  
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Email : utkal.alumina@adityabirla.com





## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

#### GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

#### Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

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  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
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- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
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- o. All the tyres of the trucks should be in good condition.
- p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
- q. No overtaking of vehicles shall be permitted inside plant premises.
- r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.



Ref: 22/MATL/FA/19

Dated: 20-09-2022

M/s. Utkal Fly Ash Bricks  
KNO-181/253  
PNO-412  
Oshapada, Tikiri  
Rayagada

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

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- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
Head-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off. Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in 1 truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
- o. All the tyres of the trucks should be in good condition.
- p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
- q. No overtaking of vehicles shall be permitted inside plant premises.
- r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.



Ref: 22/MATL/FA/18

Dated: 20-09-2022

M/s. Anu Fly Ash Bricks  
Khata No-517/47,  
Plot No-1103,  
Main Road, Rayagada

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir, \_\_\_\_\_

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1500
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1000

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda

Head-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**  
Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India.

CIN No.:U13203OR1993PLC003416  
Ph.: 06865287040 Fax: 06865287100  
Ph.:0674 2360581/540 Fax: 06742360321

Website : www.hindalco.com  
Email : utkal.alumina@adityabirla.com





## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

#### GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

#### Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act; Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consignor / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in 1 truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/21

Dated: 20-09-2022

M/s. Dash Traders  
Champi, Block Laxmipur  
Dist: Koraput  
Pin: 765013

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	2000
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1500

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
Head-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

#### GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

#### Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consigner / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consigner / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consigner to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
- o. All the tyres of the trucks should be in good condition.
- p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
- q. No overtaking of vehicles shall be permitted inside plant premises.
- r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.



Ref: 22/MATL/FA/16

Dated: 20-09-2022

M/s. Mahalaxmi Bricks Industries  
Phulagachha Padar,  
Panchada  
Kakarigumma  
Koraput Odisha-765013

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	2000
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1500

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
Head-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India.

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Website : www.hindalco.com

Email : utkal.alumina@adityabirla.com





**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

**Schedule I**

**GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)**

**Safety Guidelines for Transportation of Hazardous Goods**

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consignor / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
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- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in 1 truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/15

Dated: 20-09-2022

M/s. Sainath Fly Ash Bircks  
Khata No- 111/70, Plot No-362  
Tutibara, Main Road, Kashipur,  
Rayagada, Odisha-765015

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	2000
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- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any-point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
Head-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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Email : utkal.alumina@adityabirla.com



## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

#### GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

#### Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

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- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
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- j. Charges towards any damage of the UAIL goods caused by the trucks will be deducted from the bill after assessment by UAIL.
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- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in 1 truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/14

Dated: 20-09-2022

M/s. Baba Bricks Industry  
KH No: 98/Plot No- 32  
Near I.O.C Petrol Pump  
Main Road, Dengaguda  
Rayagada

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1500
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- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

Amit Panda

GM-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off. Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India.

CIN No.:U13203OR1993PLC003416

Ph.: 06865287040,

Fax: 06865287100

Ph.:0674 2360581/540

Fax: 06742360321

Website : www.hindalco.com

Email : utkal.alumina@adityabirla.com





**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

**Schedule I**

**GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)**

**Safety Guidelines for Transportation of Hazardous Goods**

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consignor / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL's premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL's goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/13

Dated: 20-09-2022

M/s. Maruti Bricks  
Plot No-68, Railway Station Road  
Laxmi Pur  
Dist-Koraput

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/No	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	2000
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1500

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weight slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weight slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
Head-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

Safety Guidelines for Transportation of Hazardous Goods

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- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
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- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
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- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
- o. All the tyres of the trucks should be in good condition.
- p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
- q. No overtaking of vehicles shall be permitted inside plant premises.
- r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.



Ref: 22/MATL/FA/12

Dated: 20-09-2022

**M/s. Chandan Fly Ash Bricks**  
**Bagirijhoia**  
**Khata No: 113,**  
**PO-Kucheipadar**  
**PS- Doraguda, Tikiri**  
**Rayagada, Odisha.**

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1500
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- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
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This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
GM-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

#### GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

#### Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

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**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
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  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/11

Dated: 20-09-2022

**M/s. MAA KALI INDUSTRY**  
**At-Bandikar, PO-Buria, Via-Laxmipur**  
**Dist- Koraput, Odisha-765013**

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

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This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
GM-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**  
Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

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-



Ref: 22/MATL/FA/10

Dated: 20-09-2022

M/s. Mahaveer Fly Ash Bricks  
AT/PO: Dongasil  
PS: Doraguda  
Block: Kashipur  
Dist: Rayagada

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

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For Utkal Alumina International Ltd.

Amit Panda

UTKAL ALUMINA INTERNATIONAL LIMITED  
Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

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## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

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#### Safety Guidelines for Transportation of Hazardous Goods

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  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consignor / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL's premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL's goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.



Ref: 22/MATL/FA/08

Dated: 20-09-2022

M/s. Maa Manikeswari Industry  
AT/PO: Sankarada  
PS: Tikiri  
Dist: Rayagada

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	2000
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1500

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weight slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weight slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

Amit Panda

GM-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India.

CIN No.:U13203OR1993PLC003416

Ph.: 06865287040,

Fax: 06865287100

Ph.:0674 2360581/540

Fax: 06742360321

Website : www.hindalco.com

Email : utkal.alumina@adityabirla.com



Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

**GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)**

**Safety Guidelines for Transportation of Hazardous Goods**

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consignor / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL's premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL's goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/07

Dated: 20/09/2022

M/s. OM Shanti Fly Ash Brick  
Durakabal, Khata No: 7/278  
Plot No: 120/213/494  
Tikiri, Main Road  
Totaguda

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1500
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1000

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weight slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weight slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
GM-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India.

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Website : www.hindalco.com

Email : utkal.alumina@adityabirla.com





Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consigner / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consigner / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consigner to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/06

Dated: 20-09-2022

M/s. MMG FLY ASH Bricks  
M/s. MMG Fly Ash Bricks  
At : Goudaguda  
PO : Sankarda  
PS : Tikiri  
Dist: Rayagada (ODISHA)

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S/no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	2000
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1500

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

Amit Panda

GM-Commercial

UTKAL ALUMINA INTERNATIONAL LIMITED

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India.

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Website : www.hindalco.com

Email : utkal.alumina@adityabirla.com



## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

#### GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

#### Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consigner / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consigner / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consigner to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/05

Dated: 20/09/2022

M/s. LG Fly Ash Bricks  
Near Asian Teak Colony  
Tiliri, Rayagada

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly-certified by our stores department.

Sl. no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1700
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1200

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
GM-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
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  - i. The goods carriage has a valid registration to carry the said goods
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  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consignor / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL's premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL's goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/04

Dated: 20-09-2022

M/s. Kalinga Flyash Green Bricks  
At/Po: Tikiri (Asian Teak Colony)  
Block: Kashipur  
Dist: Rayagada

Sub: Order for lifting of Fly Ash from our power plant for utilization

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

Sl. no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1700
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1200

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

Amit Panda  
GM-Commercial

UTKAL ALUMINA INTERNATIONAL LIMITED

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India.

CIN No.:U13203OR1993PLC003416

Ph: 06865287040, Fax: 06865287100  
Ph: 0674 2360581/540 Fax: 06742360321

Website : www.hindalco.com

Email : utkal.alumina@adityabirla.com



Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consigner / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consigner / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consigner to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL's premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAILs goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I-truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/03

Dated: 20-09-2022

**M/s. JOGESWAR NAIK**  
**Kucheipadar, Rayagada,**  
**India, Odisha, 765015, India**

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

S. Ino	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1500
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1000

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
**Amit Panda**  
**GM-Commercial**

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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Email : utkal.alumina@adityabirla.com





## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

#### GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

#### Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consignor / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consignor / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
- f. It shall be the duty of the transporter / owner / consignor to ensure that the driver of the goods carriage carrying dangerous or hazardous goods holds a driving license and possess a certificate of having successfully passed a course as mentioned in Central Motor Vehicles Act and Rules.
- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL's premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL's goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in 1 truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
  - o. All the tyres of the trucks should be in good condition.
  - p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
  - q. No overtaking of vehicles shall be permitted inside plant premises.
  - r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.
-



Ref: 22/MATL/FA/2

Dated: 20-09-2022

M/s. Jayadhar Naik.  
At.D-Korai  
PO: Kucheipadar  
PS: Doraguda  
Dist: Rayagada

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

Sl. no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	800
2	Transportation of Fly Ash	6 wheeler	9 (MT)	600

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weighment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept. at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022.
- (j) Payment Term: Transportation charges shall be reimbursed on monthly basis upon submission of bills duly certified by stores department.

This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

Amit Panda

UTKAL ALUMINA INTERNATIONAL LIMITED  
Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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Email : utkal.alumina@adityabirla.com



## Safety Guidelines for Transportation of Hazardous Goods in Schedule I

### Schedule I

#### GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

#### Safety Guidelines for Transportation of Hazardous Goods

The Supplier / transporter / owner / driver of the carriage carrying hazardous goods shall obey all the relevant provisions of Indian Central Motor Vehicle Act, Explosive Act, Petroleum Act and rules made thereunder and as amended from time to time, specifically:

- a. Every goods carriage carrying goods of dangerous or hazardous nature to human life shall be fitted with a spark arrester.
- b. It shall be responsibility of the consignor / transporter / owner to ensure the following, namely:
  - i. The goods carriage has a valid registration to carry the said goods
  - ii. The vehicle is equipped with necessary first-aid, safety equipment and antidotes as may be necessary to contain any accident
  - iii. That transporter or the owner of the goods carriage has full and adequate information about the dangerous or hazardous goods being transported; and
  - iv. That the driver of the goods carriage is trained in handling the dangers posed during transport of such good
- c. Every consignor/transporter shall supply to the owner/driver of the goods carriage, full, adequate and accurate information i.e. Material Safety Data Sheet (MSDS) & Transport Emergency Card (TREM Card) about the dangerous nature hazardous goods being transported as to enable owner and its driver to tackle any emergency arising out while transporting
- d. The consigner / transporter / owner of goods carriage shall ensure that the driver of such carriage is given all the relevant information in writing for transport (MSDS / TREM Card) and satisfy himself that such driver has sufficient understanding of the nature of such good and the nature of the risks involved in the transport of such goods and is capable of taking appropriate action in case of an emergency.
- e. The Consigner / transporter / owner of the goods carriage dangerous or hazardous goods shall lay down the route for each trip which the driver shall be bound to take unless directed or permitted otherwise by the Police Authorities. They shall also fix a time table for each trip to the destination and back with reference to the route so laid down.
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- g. The driver of a goods carriage transporting dangerous or hazardous goods shall ensure that the information given to him in writing is kept in the driver's cabin and is available at all times while the dangerous or hazardous goods to which it relates, are being transported.
- h. Supplier shall be responsible for & shall follow the safety rule under the provision of Factory Act 1948 & state specific factory rules and Indian electricity safety rules amended up to date and other statutory safety rules and regulations in force during currency of the contract. Trucks are liable to be checked at UAIL premises for safety features like brakes, reverse horns, lights, reverse lights, seat belts, etc., as per statutory requirements.
- i. Ensuring Safety and prevention of any accident / incident of the employees of the vendor will be sole responsibility of the Supplier.
- j. Charges towards any damage of the UAIL goods caused by the trucks will be deducted from the bill after assessment by UAIL.
- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
- l. Supplier shall take all safety precaution and provide adequate supervision by competent persons in order to do the job safely and without damage to plant, personal equipment and the environment.
- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

**Safety Guidelines for Transportation of Hazardous Goods in Schedule I**

- n. Two working head lights, rear lights and rear mirror should be in good working condition. Reverse horn to be made available in I truck. Number plates to be available and Vehicle Registration number to be mentioned legibly in all trucks.
- o. All the tyres of the trucks should be in good condition.
- p. Trucks should maintain speed limit of 20 KM per hour inside UAIL's factory premises, beyond which penalty will be imposed per UAIL's Safety Officer.
- q. No overtaking of vehicles shall be permitted inside plant premises.
- r. If any truck driver is found in drunken condition by UAIL representative, the truck shall not be allowed entry inside the factory premises. If found, suitable penalty will be imposed as per UAIL's Security.



Ref: 22/MATL/FA/01

Dated: 20-09-2022

M/s. AMA Industries  
Dora Sahi,  
Tikiri, Rayagada

**Sub: Order for lifting of Fly Ash from our power plant for utilization**

Ref: Your request letter

Dear Sir,

With reference to the above referred letter, we are pleased to award the order for lifting of fly ash from our power plant on free of cost basis, with following conditions:

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges up to your brick industry shall be reimburse to you as follows duly certified by our stores department.

Sl. no	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	1700
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1200

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc. that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weighment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
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- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of up 31<sup>st</sup> July-2023 months from 1<sup>st</sup> Aug'2022
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This is in conformity with SPCB norms and you will show the consumption report to the regional officer, state pollution control board for their verification at any point of time. UAIL reserves the right to cancel / withdraw / extend the order without assigning any reason and notice.

For Utkal Alumina International Ltd.

  
Amit Panda  
GM-Commercial

**UTKAL ALUMINA INTERNATIONAL LIMITED**

Plant & Off: Doraguda, Po: Kucheipadar, Dist.: Rayagada-765015, Odisha, India  
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Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

Safety Guidelines for Transportation of Hazardous Goods

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  - q. No overtaking of vehicles shall be permitted inside plant premises.
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-

- Infrastructure Engineering
- Water Resource Management
- Environmental & Social Study

- Surface & Sub-Surface Investigation
- Quality Control & Project Management
- Renewable Energy

- Agricultural Development
- Information Technology
- Public Health Engineering

- Mine Planning & Design
- Mineral/Sub-Soil Exploration
- Waste Management Services

Ref: Envlab/23-24/TR-02449

Date: 27.05.2023

## ANNEXURE-IX

Noise Monitoring Results															
Period: Oct-22 to Mar-23 (Monthly Average Values)															
CORE ZONE NOISE															
Sl. No	Noise Monitoring Locations	Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23		Six months average	
		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
1	Bauxite Handling Area	71.6	65.2	70.3	67.3	72.3	68.2	73.4	67.3	82.3	65.9	72.2	64.9	73.7	66.5
2	Road Mill Area	72.5	65.9	72.6	64.8	72.7	65.3	72.6	65.8	79.3	66.4	71.8	65.3	73.6	65.6
3	CPP area	73.4	63.7	72.8	65.8	73.6	67.1	72.8	68.2	78.8	67.3	73.0	65.8	74.1	66.3
4	Alumina Handling area	72.6	62.4	73.2	63.4	71.8	64.3	73.6	66.3	80.3	67.1	72.6	66.4	74.0	65.0
Ambient Air Quality Standards in respect of Noise for Industrial Area														75	70
Note: No deviation from the AAQ standard in respect of Noise is observed and all the values are within the standard prescribed.															

Reviewed by:



Approved by:



- Infrastructure Engineering
- Water Resource Management
- Environmental & Social Study

- Surface & Sub-Surface Investigation
- Quality Control & Project Management
- Renewable Energy

- Agricultural Development
- Information Technology
- Public Health Engineering

- Mine Planning & Design
- Mineral/Sub-Soil Exploration
- Waste Management Services

Ref: Envlab/23-24/TR-02450

Date: 27.05.2023

## ANNEXURE-IX

### Noise Monitoring Results

Period: Oct-22 to Mar-23 (Monthly Average Values)

### BUFFER ZONE NOISE

Sl. No	Noise Monitoring Locations	Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23		Six months average	
		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Day	Night
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time		
1	R&R colony	46.8	42.3	48.3	43.8	47.5	43.8	46.5	42.8	47.8	42.1	48.6	43.6	47.6	43.1
2	Township (Nuapada)	48.7	43.8	50.2	44.8	49.2	44.1	50.3	43.6	49.6	44.6	49.5	42.8	49.6	44.0
3	Doraguda	46.5	43.1	49.3	42.9	47.8	43.5	48.2	44.2	48.4	43.7	47.3	42.8	47.9	43.4
4	KUCHEIP ADAR	47.6	42.8	48.2	42.9	49.3	42.8	48.6	43.8	49.4	44.2	48.5	43.6	48.6	43.4
5	POLICE STATION DORAGUDA	49.3	41.8	52.4	43.6	50.3	44.2	49.1	42.6	50.3	43.6	49.6	44.4	50.2	43.4
6	Dimundi	50.2	43.1	50.3	42.9	50.8	43.5	51.6	44.3	49.7	44.1	50.4	44.1	50.5	43.7
Ambient Air Quality Standards in respect of Noise for Industrial Area														55	45
Note: No deviation from the AAQ standard in respect of Noise is observed and all the values are within the standard prescribed.															

Reviewed by:



Approved by: