



UAIL /ENV/2020-21/03

29.05.2020

To,

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

Subject: Six monthly compliance status of conditions stipulated in Environment Clearance for Expansion of Alumina Refinery (1.5 to 3.0 MTPA) along with Co-Generation Power Plant (90 to 150 MW)

Dear Sir,

Dear Sir,

We are enclosing herewith six monthly compliance status of the conditions stipulated in the Environmental Clearance for the period from 1st October 2019 to 31st March 2020 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.

(N.Nagesh)

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 : 1st October 2019 to 31st March 2020

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.	<p>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 red mud from red mud filtration unit is being stored in red mud pond. Ground water is being monitored around the red mud pond and the report is enclosed as Annexure-I.</p> <p>We have already provided the information sought by CPCB to prepare guidelines on guidelines on handling and management of High Volume Low Effect Waste- Red Mud.</p> <p>R&D scheme has been developed with various research laboratories like IIT, IMMT, NML, and Cement Industries for its productive utilization in construction applications, mine backfilling and cement application.</p> <p>Pilot Study for Red Mud utilization in mine void backfilling: The proposal for "Red Mud utilization in mine void backfilling" in our Baphimali Bauxite Mines was presented before the Consent Committee of the OSPCB on 04.11.2019. After detailed discussion, the committee had recommended for obtaining prior</p>



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		<p>permission from Indian Bureau of Mines and MoEFCC to carry out the pilot study.</p> <p>Whereas, IBM has granted us permission vide letter no.R-11013/1/MISC/MP-SOM(EZ)/2017-CCOM-Vol-I dated 18.12.2019.</p> <p>Further, we have presented our proposal before the Expert Appraisal Committee of the MoEFCC during its 16th meeting of Non-Coal Mining Sector on 05.05.2020. The EAC committee has recommended for going ahead with the pilot study for backfilling with Bauxite Residue (Red mud) at Baphlimali Bauxite Mine of M/s Utkal Alumina International Limited, located at Rayagada under the supervision of IIT, Mumbai & NEERI. The time frame for the pilot study is six months covering two patches admeasuring 50 m X 50 m at two locations, in the backfilling area.</p> <p>After obtaining the prior permissions from IBM & MoEFCC, We have requested OSPCB vide our letter no. UAIL-MINES/SPCB/115/2020 dated 11.05.2020 to grant consent to carry out the Pilot Study of back filling with Bauxite Residue.</p>
3	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.	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, continuous water tanker deployed for water sprinkling on the haulage roads in & around the red mud pond. Presently, mud stacking is going on and all the areas of the pond 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.	There is no decant water from red mud pond 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 (rain run-off) from the Red Mud Pond-A 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.	<p>During the FY: 2019-20, 90% of the ash is utilised(76.6% ash is used in low lying area at CPP; 13% ash is supplied to Brick Manufacturing units and 10.32% is disposedoff in ash pond).</p> <p>The plant is situated at a remote place and no cement industry exists within 150 km radius of the plant. We are supplying fly ash to 12 nos of brick manufacturing units through local</p>

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		entrepreneurship. We have demonstrated pilot project on road construction by replacing 50% of cement with fly ash which resulted in concrete strength of M35. We have already explored the fly ash export concrete industries in Bangladesh.
6	The company shall construct separate RCC drains for carrying storm water inside the plant.	Complied.
7	The water drawl shall not exceed 20,000 m3/day (existing and the expansion project put together).	Complied
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.	Presently the expansion upto 2.0 MTPA is in progress and the project cost is Rs.1500 crores. The CSR & ESC expenditure is attached as <u>Annexure-II.</u>
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 inter alia cover the entire periphery of the plant.	Greenbelt around plant premises, railway corridor, red mud pond, ash pond, infrastructural areas have been developed by planting in 327 hectares of land up to the year 2019. Greenbelt development will continue in the coming years to achieve 353Ha.
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.	Agreed. The funds earmarked for environmental protection shall not be diverted for any other purpose. The total recurring expenditure during the financial year 2019-20 is Rs. 36,59,82,318.90 and the details of the expenditure is enclosed as <u>Annexure – III.</u> As the project is in progress, capital cost will be provided after completion of the project.
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	Existing: 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. Proposed: Similar system shall be installed in the proposed expansion.



(Protection) Act, 1986 or NABL accredited laboratories.

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 is being carried out and the report is attached as **Annexure-IV**.

c. Install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x 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 have been installed as per the OSPCB directive to monitor the ambient air quality for the parameters PM₁₀, PM_{2.5}, SO₂, NO₂ and CO on continuous basis. These CAAQMS have been connected to OSPCB server through RTDAS to transmit online data.

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.

The results of continuous stack emission, manual stack monitoring and ambient air quality monitoring for the period October'19 to March'20 is attached as **Annexure-V**.

The summary of stack emission & ambient air quality monitoring data during the period October'19 to March'20 is as below.

Calciner-A

Parameter	Max	Min	Avg	Norm
Particulate Matter mg/Nm ³	14.8	6.3	9.5	50
SO ₂ (mg/Nm ³)	337	196	265.9	....
NO _x (mg/Nm ³)	188	107	143.1	....

Calciner-B

Parameter	Max	Min	Avg	Norm
Particulate Matter mg/Nm ³	15.1	6.3	9.7	50
SO ₂ (mg/Nm ³)	322	177	246.7
NO _x (mg/Nm ³)	175	107	137.2



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From the above test results, it is evident that parameters are within the norm prescribed in the EC & CTO and no there is no deviation observed. Hence, complied.

CPP, Unit #1

Parameter	Max	Min	Avg	Norm
Particulate Matter mg/Nm ³	45.9	30.2	37.0	50
SO ₂ (mg/Nm ³)	414.0	292.0	357.6	600
NO _x (mg/Nm ³)	221.0	117.0	161.7	300

CPP, Unit #2

Parameter	Max	Min	Avg	Norm
Particulate Matter mg/Nm ³	44.6	30.6	37.7	50
SO ₂ (mg/Nm ³)	410	287	357.8	600
NO _x (mg/Nm ³)	186	137	160.3	300

CPP, Unit #3

Parameter	Max	Min	Avg	Norm
Particulate Matter mg/Nm ³	44.2	31.1	39.6	50
SO ₂ (mg/Nm ³)	389	274	334.7	600
NO _x (mg/Nm ³)	197.0	123.0	155.9	300

From the above test results, it is evident that parameters are within the norm prescribed in the EC & CTO and no there is no deviation observed. Hence, complied.

Ambient Air Quality (AAQ)

Parameter	Max.	Min.	Avg.	NAAQS
PM ₁₀ µg/m ³	73	41	55	60
PM _{2.5} µg/m ³	45	19	29.5	40
SO ₂ µg/m ³	10.9	4.9	8.0	50



NO ₂ µg/m ³	28.8	11.9	18.3	40
CO mg/m ³	0.8	0.2	0.6	04

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. Hence, complied.

13 The project proponent shall (Water Quality Monitoring):

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.

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.

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.

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.

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. **The zero discharge condition is ensured by continuous surveillance through web camera and flow meter as per CPCB guidelines.**

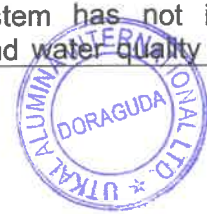
b. monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories; and

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. Refer **Annexure-VI**.

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&CC, Zonal office of CPCB and Regional

Since, it is a Zero discharge plant, no effluents are being discharged except monsoon season and the same is under continuous surveillance through IP Camera & flow meter which is hooked to CPCB/SPCB server. Hence continuous online effluent monitoring system has not installed. However, manual ground water quality is being

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Office of SPCB along with six-monthly monitoring report.

monitored in and around the plant premises. Refer **Annexure-VI**.

14 The project proponent shall (Air Pollution Control):

a. ensure 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 16th November, 2009 (as amended from time to time).

Ambient air quality is being monitored by establishing six nos. of AAQ stations inside and outside the plant premises in addition to 4 CAAQMS.

The summary of the ambient air quality monitoring data during the period October'19 to March'20 is as below.

Ambient Air Quality (AAQ)

Parameter	Max.	Min.	Avg.	NAAQS
PM ₁₀ µg/m ³	73	41	55	60
PM _{2.5} µg/m ³	45	19	29.5	40
SO ₂ µg/m ³	10.9	4.9	8.0	50
NO ₂ µg/m ³	28.8	11.9	18.3	40
CO mg/m ³	0.8	0.2	0.6	04

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. Hence, complied.

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.

Existing: Electrostatic precipitator (ESPs) designed to control particulate matter emissions within 50 mg/Nm³ and connected to the three boilers of the Power Plant & two Calciners of the Alumina Refinery with online monitoring system.

The following provisions have been made to control fugitive emission:

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.

b) Bag filters have been provided at Bauxite crusher, coal crusher, calciner and alumina handling areas.

c) Fixed high jet water spraying system have been installed at bauxite & coal handling areas. Wagon Tippler with dry fog system at coal unloading area and closed type pipe conveyor system have been provided. Fully covered conveyors with water



		<p>spraying 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> <p>Proposed: Similar system shall be provided in the proposed expansion.</p>
	c. provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags;	Bag filters has provided with differential pressure transmitter which measures pressure of inlet and outlet and any high differential pressure gives indication of blockage. We have schedule of monthly cloth cleaning and inspection to ensure better maintenance of the bags.
	d. provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;	Mechanised sweeping machine, Truck mounted Vacuum cleaner, industrial vacuum cleaners are being used to clean the plant roads, shop floors and other areas.
	e. ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation	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 & dust generation. Coal is conveyed through a pipe conveyor. Other raw materials like lime and coal are transported through rail.
	f. provide covered sheds for raw materials like bauxite, coal, etc;	Covered shed is already provided for coal & lime and construction of shed is under progress for Bauxite.
	g. recycle alumina dust collected in ESPs installed in calciner.	Alumina dust collected in ESP is recycled through pneumatic conveying system which is part of the design.
15	The project proponent shall (Water Pollution Control):	
	a. adhere to 'zero liquid discharge';	Already adopted.
	b. provide Sewage Treatment Plant for domestic wastewater; and	Provided.
	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.	Provided.
16	The project proponent shall (Water Conservation):	
	a. practice rainwater harvesting to maximum possible extent; and	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 being collected in guard pond, caustic pond and holding pond and the water 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.



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	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 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 unit.
	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.	Agreed
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.	Noted for compliance.
21	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	HIRA and Disaster Management Plan has been prepared and approved by Directorate 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.	Agreed & noted for compliance.



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
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.	Presently fly ash is being used to fill low lying areas within the plant premises, dyke height increase, road making and supply to brick manufacturing units. The plant is situated at a remote place. There are no cement industries within 150 km radius of the plant. Currently we are supplying fly ash to 12 nos of brick manufacturing units and the order for lifting the fly ash with the brick manufacturers is attached as Annexure VII .
26	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium Industry shall be implemented.	It is a Alumina Refinery Plant and the generated red mud is being disposed off 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.
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 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.
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).	Agreed.
31	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste	Hazardous waste is being sold to the authorized recyclers/ reprocessors of CPCB as per the

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	(Management & Transboundary Movement) Rules, 2016.	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.	<p>Noise monitoring report is attached as Annexure-VIII. The summary of noise during the period October'19 to March'20 is as below.</p> <table border="1"> <thead> <tr> <th>Area</th> <th>Max</th> <th>Min</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Industrial (Day)</td> <td>73.4</td> <td>68.5</td> <td>71.4</td> </tr> <tr> <td>Industrial (Night)</td> <td>67.7</td> <td>58.6</td> <td>62.5</td> </tr> <tr> <td>Residential (Day)</td> <td>53.9</td> <td>47.4</td> <td>50.3</td> </tr> <tr> <td>Residential (Night)</td> <td>45.2</td> <td>38.2</td> <td>41.3</td> </tr> </tbody> </table> <p>From the above test results, it is evident that Noise levels are within the prescribed norm and no deviation is observed from Ambient air quality standard in respect of Noise for industrial and residential areas. Hence, complied.</p>	Area	Max	Min	Avg	Industrial (Day)	73.4	68.5	71.4	Industrial (Night)	67.7	58.6	62.5	Residential (Day)	53.9	47.4	50.3	Residential (Night)	45.2	38.2	41.3
Area	Max	Min	Avg																			
Industrial (Day)	73.4	68.5	71.4																			
Industrial (Night)	67.7	58.6	62.5																			
Residential (Day)	53.9	47.4	50.3																			
Residential (Night)	45.2	38.2	41.3																			
33	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<p>1. Pre-employment Health check-up is being carried out for all the employees at the time of joining.</p> <p>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.</p>																				
34	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Agreed.																				
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 (http://www.hindalco.com/upload/pdf/EC-alumina-refinery-expansion-power-plant-90MW-2018.pdf)																				
	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	Complied. The same was published in local newspapers namely "The political business daily" and "The Sambada Kalika" that are widely circulated in the region.																				



	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&CC) at http://envfor.nic.in .	
	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;	Complied. 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 (http://www.hindalco.com/upload/pdf/utkal-half-yearly-ec-comp-oct18-mar19.pdf)
	e. monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (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;	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 http://www.hindalco.com/upload/pdf/utkal-alumina-half-yearly-compliance-report-apr19-sept19.pdf
	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&CC, the respective Zonal Office of CPCB and the SPCB;	Agreed. Six monthly reports are being submitted regularly to Regional Office of the Ministry at Bhubaneswar / Central Pollution Control Board / SPCB, Odisha. However, as per the new notification, six monthly compliance report is being submitted in soft copy.
	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;	Complied. Environmental Statement for the year 2018-19 has already been submitted vide our letter No. UAIL/ENV/2019-20/20 dated 27-09-2019.
	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.	Date of financial approval: 06.01.2018 Date of land development work: 24.08.2018
25	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
26	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Agreed.

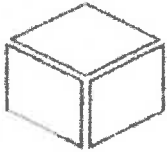
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27	The PP shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent	Agreed.
28	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.	Agreed.
29	This EC is issued in suppression of the earlier EC vide F. No. J-11011/753/2007-IA-II(I) dated 29.01.2018	Agreed.
30	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. stand 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.
31	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.	Agreed.



A handwritten signature in blue ink, appearing to be "N. K. Saha".



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Annexure - I



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Certificate No.: TC-7944

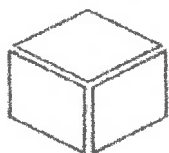
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Ground Water Quality Period: October'19 - March'20 Piezometer at Red Mud Pond

Annexure - I

Sl. No.	Parameters	Unit	IS-10500 Standards	Oct-19	Nov-19	Jan-20	Mar-20
1	Color	Hazen	5	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.36	7.93	7.25	7.79
4	Turbidity	NTU ,Max	1	0.77	0.42	0.78	0.78
5	Total Dissolved Solids (as TDS)	mg/l	500	241	212	232	262
6	Temperature	°C	-	27	25	24	26
7	Conductivity	µS/cm	-	393	340	369	417
8	Calcium (as Ca)	mg/l, max	75	57.6	33.6	35.2	51.2
9	Chloride (as Cl)	mg/l, max	250	34.7	64.4	41.5	44.9
10	Copper (as Cu)	mg/l, max	0.05	<0.05	<0.05	<0.05	<0.05
11	Fluoride (as F)	mg/l, max	1	0.72	0.39	<0.1	0.65
12	Free residual Chlorine	mg/l, min	0.2	0.2	0.3	0.3	0.3
13	Iron (as Fe)	mg/l, max	0.3	0.26	0.21	0.17	0.19
14	Magnesium (as Mg)	mg/l, max	30	9.7	10.7	13.6	12.6
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds	mg/l, max	0.001	<0.001	<0.001	<0.001	<0.001
19	Selenium (as Se)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
20	Sulphate (as SO ₄)	mg/l, max	200	19.7	6.7	11.3	17.6
21	Total Alkalinity	mg/l, max	200	160	116	132	164
22	Total Hardness	mg/l, max	200	184	128	144	180
23	Zinc (as Zn)	mg/l, max	5	0.32	0.29	0.19	0.14
24	Cadmium (as Zn)	mg/l,Max	0.003	<0.003	<0.003	<0.003	<0.003
25	Cyanide (as CN)	mg/l,Max	0.05	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l,Max	0.01	<0.005	<0.005	<0.005	<0.005


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27	Mercury(as Hg)	mg/l,Max	0.001	<0.0005	<0.0005	<0.0005	<0.0005
28	Total arsenic (as As)	mg/l,Max	0.01	<0.001	<0.001	<0.001	<0.001
29	Pesticide	mg/l,Max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	Absent	Absent	Absent	Absent



ENTERPRISE SOCIAL COMMITMENT (FY 2019-20) UTKAL ALUMINA INTERNATIONAL LTD.	
Enterprise Social Commitment	Amount in Rs.
(A) Health Care, Eradicating Hunger, Poverty and Malnutrition	
Preventive Health Care	33,70,910.21
Curative Health Care Program	94,36,476.00
Quality/Support Program	14,24,225.74
Health Infrastructure	190,39,175.99
Sub Total (A)	332,70,787.94
(B) Promoting Education and Employment Enhancing Vocation Skills	
School Education Program (SEP)	34,08,985.00
School Infrastructure	241,72,037.52
Sub Total (B)	275,81,022.52
(C) Social Empowerment ,promoting gender equality, empowering women	
Social Security	9,48,000.00
Sub Total (C)	9,48,000.00
(D) Ensuring environmental sustainability	
Agriculture and Farm Based	53,21,052.06
Non farm & Skills based income generation program	1,20,568.36
Livelihood Infrastructure	145,61,210.81
Sub Total (D)	200,02,831.23
(E) Promotion of Heritage/Art and Culture/Sports	3,000.00
(F) Promotion of Sports	2,73,299.00
(G) Rural Infrastructure Development	286,59,959.45
Grand Total	1107,38,900.14

CSR Expenditure (FY 2019-20)	
Utkal Alumina International Ltd. Doraguda, Rayagada	
Corporate Social Responsibility Focus Areas	Amount in Rs.
A. Health Care, Eradicating Hunger, Poverty and Malnutrition	
Preventive Health Care	23,000
Curative Health Care Program	274,22,676
Quality/Support Program	4,60,927
Health Infrastructure	15,000
Sub Total (A)	279,21,603
B. Promoting Education and Employment Enhancing Vocation Skills	
School Education Program (SEP)	183,40,764
Education Support Programs	1,15,140
Sub Total (B)	184,55,904
C. Social Empowerment ,promoting gender equality, empowering women	
Awareness Programmes	4,78,562
Social Events to minimise causes of poverty	30,000
Sub Total (C)	5,08,562
D. Ensuring environmental sustainability	
Agriculture and Farm Based	23,84,220
Animal Husbandry	98,726
Non farm & Skills based income generation program	18,31,336
Natural Resource conservation programs & Non conventional Energy	96,322
Sub Total (D)	44,10,605
E. Promotion of Heritage/Art and Culture/Sports	16,95,442
F. Promotion of Sports	284,37,141
G. Rural Infrastructure Development	5,63,526
H. Disaster Relief Program's	1,47,692
Grand Total	821,40,474

Utkal Alumina International Ltd.
Expenditure on Environmental Protection Measures
for the Year 2019-20

A. Cogeneration Power Plant

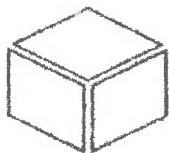
SI. No	Description of the Expenditure	Expenditure in Rs.
1	Ash Management(Ash utilisation at low lying area)	200,38,857
2	Ash conveying system up gradation in all the boilers	284,00,000
3	Ash Handling system R& M Expenses	168,42,365
4	Mercury Analyser installation	120,00,000
5	FGD System Consultation	73,00,000
6	Ash Pond height enhancement consultation	18,00,000
7	Ash utilisation Project consulting (N. Kalidas)	11,60,000
8	Power cost (ESP & AHPSystem)	281,27,970
	Sub-Total (A)	1156,69,192

B. Red Mud Pond & Red Mud Filtration Expenditure

SI. No	Description of the Expenditure	Expenditure in Rs.
1	Red Mud filter O & M	387,00,000
2	Red Mud filter spares	300,00,000
3	Red Mud management inside pond	1080,00,000
4	Red Mud pond Operation	18,64,800
5	Red Mud pond maintenance expenses	100,00,000
6	Sprinkler system O & M	5,32,800
7	Power cost for both RMP and RMF Operation	190,00,000
8	Study and research on bulk residue utilisation	25,00,000
9	Hiring of consultancy for stability analysis	20,00,000
10	Study and analysis for mines backfilling	68,55,000
11	Plantation around Red Mud pond	5,00,000
	Sub-Total (B)	2199,52,600

C. O&M of ESP & Bag filters at Alumina Refinery

SI. No	Description of the Expenditure	Expenditure in Rs.
1	O&M of ESP of Alumina Refinery	6350597.16
2	O&M of Bag Filters of Alumina Refinery	2985696.74
	Sub-Total (C)	9336293.9
D.	Environmental Monitoring, Greenbelt development, AMC of CAAQMS, UPS etc.	21024233.00
	Grand Total Rs.	3659,82,318.90



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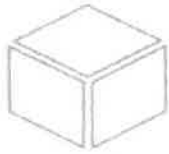
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Annexure - IV

Ambient Air Quality (Fugitive Dust) Monitoring Results Period: October'19 - March'20 (Monthly Average Values)

FUGITIVE DUST	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Half Yearly Average
Alumina Handling Area	81	87	83	89	94	83	86
Bauxite Handling Area	70	91	90	81	85	90	85
Lime Handling Area	89	79	86	74	82	87	83
Coal Handling Area	82	85	78	85	74	81	81
Material Gate	94	77	82	93	86	78	85
Ash Handling Area	83	95	79	86	79	84	84
Traffic center	79	88	93	78	82	91	85
Rod Mill Area	86	82	84	88	90	83	86





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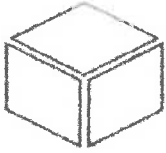
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Format No.: 7.8.2/FMT/TR/06

Annexure - 5

Stack Monitoring Results								
Period: October'2019 - March'2020 (Monthly Average Values)								
1.CALCINER - A								
Parameter	Prescribed Standard	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Six Months Average
Temperature °C	....	171.3	173.5	164.5	171.8	169.5	171.5	170.3
Velocity m/sec	....	10.6	9.4	8.8	10.1	10.9	10.2	10.0
Particulate Matter mg/Nm ³	50	7.8	7.6	7.3	8.1	13.1	13.3	9.5
SO ₂ (mg/Nm ³)	....	233.5	244.0	251.3	268.5	286.5	311.8	265.9
NOx (mg/Nm ³)	....	131.8	141.3	129.0	141.8	158.0	157.0	143.1
2.CALCINER -B								
Parameter	Prescribed Standard	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Six Months Average
Temperature °C	....	168.3	167.0	170.5	169.5	168.5	168.3	168.7
Velocity m/sec	....	10.8	9.3	9.5	9.1	11.1	10.0	10.0
Particulate Matter mg/Nm ³	50	8.4	7.9	7.8	7.6	13.2	12.8	9.6
SO ₂ (mg/Nm ³)	....	191.0	233.5	247.8	234.8	276.0	283.5	244.4
NOx (mg/Nm ³)	....	121.7	141.5	136.8	128.0	145.0	146.3	136.6
3.CPP Unit-1 of Power Plant								
Parameter	Prescribed Standard	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Six Months Average
Temperature °C	....	114.8	115.0	109.8	110.3	Under Shutdown	124.7	114.9
Velocity m/sec	....	12.1	13.0	11.7	11.3		10.7	11.7
Particulate Matter mg/Nm ³	50	35.8	35.6	37.2	40.8		36.4	37.1
SO ₂ (mg/Nm ³)	600	347.3	379.5	365.8	363.3		325.7	356.3
NOx (mg/Nm ³)	300	190.0	169.8	144.5	147.0		151.0	160.5


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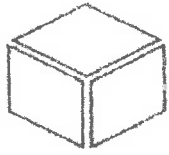
Stack Monitoring Results Period: October'2019 - March'2020 (Monthly Average Values)

4.CPP Unit-2 of Power Plant								
Parameter	Prescribed Standard	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Six Months Average
Temperature °C	....	127.5	126.0	Under Shutdown	128.0	125.0	124.0	126.1
Velocity m/sec	....	13.3	13.7		11.9	11.9	11.2	12.4
Particulate Matter mg/Nm ³	50	33.8	39.1		40.7	38.5	44.6	39.3
SO ₂ (mg/Nm ³)	600	384.5	367.5		329.0	325.5	390.0	359.3
NOx (mg/Nm ³)	300	157.0	166.0		143.0	165.5	158.0	157.9
5.CPP Unit-3 of Power Plant								
Parameter	Prescribed Standard	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Six Months Average
Temperature °C	....	Under Shutdown	126.0	121.0	126.0	135.0	134.5	128.5
Velocity m/sec	....		13.8	12.5	13.5	13.5	12.9	13.3
Particulate Matter mg/Nm ³	50		34.4	39.2	39.9	40.2	41.7	39.1
SO ₂ (mg/Nm ³)	600		376.0	323.5	328.5	325.8	340.3	338.8
NOx (mg/Nm ³)	300		172.5	152.5	148.3	150.0	164.5	157.6

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



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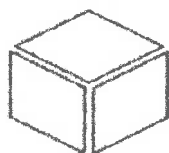
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Ambient Air Quality (AAQ) Monitoring Results Period: October'2019 - March'2020 (Monthly Average Values)

AAQ-1	Admin Building	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Oct-19	57.0	30.8	7.8	17.9	0.6
	Nov-19	54.5	27.8	7.5	17.5	0.6
	Dec-19	56.3	33.0	8.1	19.0	0.6
	Jan-20	53.9	29.7	8.6	20.5	0.6
	Feb-20	52.3	26.3	8.3	17.7	0.5
	Mar-20	55.4	29.6	8.7	21.8	0.6
	Six Months Average	54.9	29.5	8.2	19.1	0.58
AAQ-2	Nuapada	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Oct-19	57.7	30.1	8.9	18.4	0.6
	Nov-19	57.1	28.5	8.5	18.4	0.6
	Dec-19	53.5	29.1	9.1	20.6	0.6
	Jan-20	57.8	35.2	8.6	19.2	0.5
	Feb-20	56.4	28.5	7.2	16.6	0.5
	Mar-20	53.5	25.0	7.5	17.4	0.6
	Six Months Average	56.0	29.4	8.3	18.4	0.56
AAQ-3	Doraguda	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Oct-19	59.1	32.7	8.2	18.3	0.6
	Nov-19	59.8	29.8	8.4	18.8	0.6
	Dec-19	58.8	33.6	7.6	17.0	0.7
	Jan-20	51.1	30.4	8.3	19.4	0.6
	Feb-20	49.5	25.6	7.9	17.2	0.5
	Mar-20	52.9	27.1	8.6	19.2	0.6
	Six Months Average	55.2	29.9	8.2	18.3	0.60



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Ambient Air Quality (AAQ) Monitoring Results Period: October'2019 - March'2020 (Monthly Average Values)

AAQ-4	Dimundi Boundary wall	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Oct-19	56.7	31.5	8.2	18.1	0.6
	Nov-19	56.6	28.3	7.4	17.8	0.6
	Dec-19	51.9	28.1	8.5	19.6	0.7
	Jan-20	56.9	32.5	7.9	18.8	0.6
	Feb-20	54.1	27.6	7.1	17.8	0.5
	Mar-20	55.6	31.3	9.0	19.2	0.6
	Six Months Average	55.3	29.9	8.0	18.6	0.58
AAQ-5	Training Center (Inside plant)	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Oct-19	52.7	31.3	7.3	17.7	0.5
	Nov-19	59.0	30.2	7.4	18.3	0.5
	Dec-19	56.6	29.4	8.4	19.4	0.6
	Jan-20	55.5	30.1	8.0	17.2	0.5
	Feb-20	48.9	24.6	6.8	15.7	0.5
	Mar-20	53.1	26.8	7.7	18.1	0.5
	Six Months Average	54.3	28.7	7.6	17.7	0.51
AAQ-6	Near BSNL tower (Inside plant)	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Oct-19	55.8	33.4	8.0	17.9	0.5
	Nov-19	58.4	30.2	7.6	17.8	0.6
	Dec-19	52.5	28.6	8.3	19.5	0.6
	Jan-20	54.4	29.2	7.8	17.6	0.5
	Feb-20	52.5	29.3	7.1	16.7	0.4
	Mar-20	48.8	25.5	8.2	17.4	0.6
	Six Months Average	53.7	29.4	7.8	17.8	0.52

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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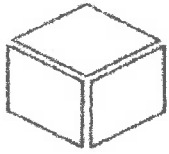
Annexure - VI

Ground Water Quality Period: October'19 - March'20

GW1: Dimundi

Sl. No.	Parameters	Unit	IS-10500 Standards	Oct-19	Nov-19	Dec-19	Feb-20
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Unobjectionable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.25	7.67	7.31	7.62
4	Turbidity	NTU, max	1	0.28	0.44	0.57	0.45
5	Total Dissolved Solids (as TDS)	mg/l	500	202	213	242	259
6	Temperature	°C	-	27	25	23	24
7	Conductivity	µS/cm	-	324	349	394	410
8	Calcium (as Ca)	mg/l, max	75	38.4	32	43.2	46.4
9	Chloride (as Cl)	mg/l, max	250	44.4	69.4	51.5	57.2
10	Copper (as Cu)	mg/l, max	0.05	<0.05	<0.05	<0.05	<0.05
11	Fluoride (as F)	mg/l, max	1	0.49	0.43	0.64	0.58
12	Residual Free Chlorine (as RFC)	mg/l, min	0.2	0.2	0.3	0.3	0.3
13	Iron (as Fe)	mg/l, max	0.3	0.14	0.19	0.23	0.18
14	Magnesium (as Mg)	mg/l, max	30	12.6	13.6	9.7	10.7
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0
18	Phenolic compound	mg/l, max	0.001	<0.001	<0.001	<0.001	<0.001
19	Selenium(as Se)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
20	Sulphate (as SO ₄)	mg/l, max	200	12.3	8.2	11.9	13.3
21	Total Alkalinity	mg/l, max	200	132	124	132	144
22	Total Hardness	mg/l, max	200	148	136	148	160
23	Zinc (as Zn)	mg/l, max	5	0.2	0.13	0.28	0.26
24	Cadmium (as Cd)	mg/l, max	0.003	<0.003	<0.003	<0.003	<0.003
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
27	Mercury (as Hg)	mg/l, max	0.001	<0.0005	<0.0005	<0.0005	<0.0005
28	Arsenic (as As)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	Absent	Absent	Absent	Absent

AUTHORIZED SIGNATORY
 VISIONTEK CONSULTANCY SERVICES PVT. LTD.



Visiontek Consultancy Services Pvt. Ltd.

(An Enviro Engineering Consulting Cell)
(ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 Certified)



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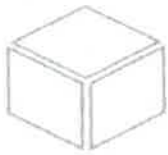
Certificate No.: TC-7944
Format No.: 7.8.2/FMT/TR/06

Ground Water Quality Period: October'19 - March'20

GW2: Lachuguda

Sl. No.	Parameters	Unit	IS-10500 Standards	Oct-19	Nov-19	Dec-19	Feb-20
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Unobjectionable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.48	8.08	7.84	7.37
4	Turbidity	NTU, max	1	0.23	0.89	0.76	0.59
5	Total Dissolved Solids (as TDS)	mg/l	500	190	271	252	280
6	Temperature	°C	-	27	25	23	24
7	Conductivity	µS/cm	-	311	447	406	459
8	Calcium (as Ca)	mg/l, max	75	48	56	48	60.8
9	Chloride (as Cl)	mg/l, max	250	40.5	75.9	57.5	66.1
10	Copper (as Cu)	mg/l, max	0.05	<0.05	<0.05	<0.05	<0.05
11	Fluoride (as F)	mg/l, max	1	0.35	0.63	0.78	0.63
12	Residual Free Chlorine (as RFC)	mg/l, min	0.2	0.2	0.3	0.3	0.3
13	Iron (as Fe)	mg/l, max	0.3	0.18	0.25	0.17	0.17
14	Magnesium (as Mg)	mg/l, max	30	8.7	7.8	17.5	7.8
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0
18	Phenolic compound	mg/l, max	0.001	<0.001	<0.001	<0.001	<0.001
19	Selenium(as Se)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
20	Sulphate (as SO ₄)	mg/l, max	200	15.1	12.4	19.7	16.2
21	Total Alkalinity	mg/l, max	200	132	156	168	176
22	Total Hardness	mg/l, max	200	156	172	192	184
23	Zinc (as Zn)	mg/l, max	5	0.13	0.35	0.27	0.31
24	Cadmium (as Cd)	mg/l, max	0.003	<0.003	<0.003	<0.003	<0.003
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
27	Mercury (as Hg)	mg/l, max	0.001	<0.0005	<0.0005	<0.0005	<0.0005
28	Arsenic (as As)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	Absent	Absent	Absent	Absent


 Authorised Signatory



Visiontek Consultancy Services Pvt. Ltd.

(An Enviro Engineering Consulting Cell)

(ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 Certified)

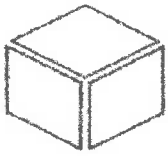


NABL ACCREDITED

Certificate No.: TC-7944
Format No.: 7.8.2/FMT/TR/06

Ground Water Quality Period: October'19 - March'20							
GW3: Kucheipadar							
Sl. No.	Parameters	Unit	IS-10500 Standards	Oct-19	Nov-19	Dec-19	Feb-20
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Unobjectionable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.39	7.65	7.79	7.54
4	Turbidity	NTU, max	1	0.61	0.77	0.86	0.71
5	Total Dissolved Solids (as TDS)	mg/l	500	244	219	252	239
6	Temperature	°C	-	27	26	23	24
7	Conductivity	µS/cm	-	396	355	414	396
8	Calcium (as Ca)	mg/l, max	75	46.4	49.6	52.8	43.2
9	Chloride (as Cl)	mg/l, max	250	54	73.3	66.5	53.7
10	Copper (as Cu)	mg/l, max	0.05	<0.05	<0.05	<0.05	<0.05
11	Fluoride (as F)	mg/l, max	1	0.62	0.78	0.6	0.71
12	Residual Free Chlorine (as RFC)	mg/l, min	0.2	0.2	0.3	0.3	0.3
13	Iron (as Fe)	mg/l, max	0.3	0.19	0.14	0.18	0.14
14	Magnesium (as Mg)	mg/l, max	30	15.6	9.7	13.6	14.6
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0
18	Phenolic compound	mg/l, max	0.001	<0.001	<0.001	<0.001	<0.001
19	Selenium(as Se)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
20	Sulphate (as SO4)	mg/l, max	200	17.3	15.2	17.5	15.3
21	Total Alkalinity	mg/l, max	200	144	136	160	144
22	Total Hardness	mg/l, max	200	180	164	188	168
23	Zinc (as Zn)	mg/l, max	5	0.21	0.37	0.19	0.22
24	Cadmium (as Cd)	mg/l, max	0.003	<0.003	<0.003	<0.003	<0.003
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
27	Mercury (as Hg)	mg/l, max	0.001	<0.0005	<0.0005	<0.0005	<0.0005
28	Arsenic (as As)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	Absent	Absent	Absent	Absent





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NABL ACCREDITED

Certificate No.: TC-7944

Format No.: 7.8.2/FMT/TR/06

Ground Water Quality Period: October'19 - March'20

GW4: Bagrijhala

Sl. No.	Parameters	Unit	IS-10500 Standards	Oct-19	Nov-19	Dec-19	Feb-20
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Unobjectionable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.73	7.82	7.49	7.18
4	Turbidity	NTU, max	1	0.85	0.51	0.71	0.87
5	Total Dissolved Solids (as TDS)	mg/l	500	269	266	230	273
6	Temperature	°C	-	27	26	23	24
7	Conductivity	µS/cm	-	433	418	382	435
8	Calcium (as Ca)	mg/l, max	75	57.6	57.6	49.6	54.4
9	Chloride (as Cl)	mg/l, max	250	46.3	81	73.5	70.8
10	Copper (as Cu)	mg/l, max	0.05	<0.05	<0.05	<0.05	<0.05
11	Fluoride (as F)	mg/l, max	1	0.55	0.85	0.57	0.43
12	Residual Free Chlorine (as RFC)	mg/l, min	0.2	0.2	0.3	0.3	0.3
13	Iron (as Fe)	mg/l, max	0.3	0.23	0.22	0.14	0.22
14	Magnesium (as Mg)	mg/l, max	30	17.7	10.7	11.7	11.7
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0
18	Phenolic compound	mg/l, max	0.001	<0.001	<0.001	<0.001	<0.001
19	Selenium(as Se)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
20	Sulphate (as SO4)	mg/l, max	200	19.8	11.7	13.8	17.2
21	Total Alkalinity	mg/l, max	200	156	154	144	156
22	Total Hardness	mg/l, max	200	192	188	172	184
23	Zinc (as Zn)	mg/l, max	5	0.33	0.24	0.15	0.2
24	Cadmium (as Cd)	mg/l, max	0.003	<0.003	<0.003	<0.003	<0.003
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.005	<0.005	<0.005	<0.005
27	Mercury (as Hg)	mg/l, max	0.001	<0.0005	<0.0005	<0.0005	<0.0005
28	Arsenic (as As)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	Absent	Absent	Absent	Absent





Annexure - VII

Ref: 19/MATL/FA/11

Dated: 22-05-2019

M/s. Maa Kali Industry
At: Bandikar, PO-Burja
Laxmipur, 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 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)	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 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.

Nishant Shah

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.: UTKAL R 1995 PL 000001
www.hindalco.com
www.utkalalumina@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.

Grey

MAC

Jagannath Laha

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.

G109

AAC

Jagannath Lahu



Ref: 20/MATL/FA/01

Dated: 27-08-2019

M/s. Jayadhar Naik.
At.D-Koral
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 upto your brick industry shall be reimburse to you as follows duly certified by our stores department.

Slno	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	300
2	Transportation of Fly Ash	6 wheeler	9 (MT)	200

- (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 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.


Nishant Shah
GM-Commercial

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.

Ghos

AMS

ADITYA BIRLA

Ref: 19/MATL/FA/03

Dated: 27/08/2019

**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 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 tarpauln 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.


**Nishant Shah
GM-Commercial****UTKAL ALUMINA INTERNATIONAL LIMITED**Plant & Off.: Doraguda, Po: Kuchelipadar, Dist.: Rayagada- 765015, Odisha, India
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, IndiaCIN No.: U13203OR1993PLC003416
Ph.: 06665287040, Fax : 06665287100
Ph.: 0674 2360561/540. Fax 0674 2360321Website: 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.

GP

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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 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.**

GP

AAS



Ref: 20/MATL/FA/08

Dated: 27/08/2019

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 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)	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 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.

Nishant Shah
GM-Commercial

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.

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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.
- 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: 20/MATL/FA/03

Dated: 27/08/2019

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 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.


Nishant Shah
GM-Commercial

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.

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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.
- 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.

GPO

AAK



Ref: 20/MATL/FA/09

Dated: 27/08/2019

**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 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.

Nishant Shah

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
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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.

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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 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.

Good

ABC



Ref: 20/MATL/FA/02

Dated: 27-08-2019

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 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)	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 weightment 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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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.


 Nishant Shah

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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- m. The Truck driver must have valid driving license, without which the driver will be restricted entry permission inside UAIL main gate.

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Safety Guidelines for Transportation of Hazardous Goods in Schedule I

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- 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.

GPO

AAI



Ref: 20/MATL/FA/06

Dated: 27/08/2019

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 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)	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 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.


 Nishant Shah

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 : 0674 2360321

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 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.

GP/

M/S

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.

G. P. M.

AAS

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.

Copy

M/S

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.

G. J. J.

MAS



Ref: 20/MATL/FA/05

Dated: 27/08/2019

M/s. OM Shanti
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 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)	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 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.


Nishant Shah
GM-Commercial

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.

GPO

AMS

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.

G

AAS



Ref: 20/MATL/FA/013

Dated: 19-12-2019

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 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)	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 upto 26th Aug-20 w.e.f 1st Jan-20
- (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.

Nishant Shah
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 : 0674 2360321

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.
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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
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- 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.
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- k. Supplier's vehicle entering the factory premises must be comprehensively insured.
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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.

GPO



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.

G.P.S.

AKS



Ref: 20/MATL/FA/10

Dated: 23-09-2019

**M/s. Jai Siba Sankar Fly Ash Bricks
Main Road , Kashipur****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.)
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- (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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- (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.


23/9/19
Nishant Shah

GM-Commercial

Safety Guidelines for Transportation of Hazardous Goods in Schedule I

Schedule I

GENERAL TERMS AND CONDITIONS - GOODS (DOMESTIC)

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- 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.
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Safety Guidelines for Transportation of Hazardous Goods in Schedule I

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MS →

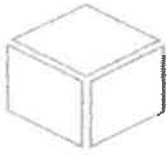


Annexure - VIII

Annexure - VIII

Noise Monitoring Results															
Period: October'19 - March'20 (Monthly Average Values)															
CORE ZONE NOISE															
SI No.	NOISE MONITORING LOCATIONS	Oct-19		Nov-19		Dec-19		Jan-20		Feb-20		Mar-20		Six Monthly Average	
		Results in dB(A)Leq (Day)	Results in dB(A)Leq (Night)	Results in dB(A)Leq (Day)	Results in dB(A)Leq (Night)	Results in dB(A)Leq (Day)	Results in dB(A)Leq (Night)	Results in dB(A)Leq (Day)	Results in dB(A)Leq (Night)	Results in dB(A)Leq (Day)	Results in dB(A)Leq (Night)	Results in dB(A)Leq (Day)	Results in dB(A)Leq (Night)	Day	Night
1	CCR	72.4	65.9	71.5	67.7	68.5	62.1	70.4	58.6	69.8	59.5	73.2	62.1	71.0	62.7
2	NEAR MAIN GATE	71.5	63.5	72.6	65.1	71.2	65.4	71.0	60.3	72.4	62.2	68.9	60.5	71.3	62.8
3	CPP AREA	70.8	61.4	73.4	63.3	69.9	63.8	72.5	59.1	70.6	65.4	71.3	63.6	71.4	62.8
4	ALUMINIUM HANDLING AREA	72.3	60.7	71.5	61.9	73.4	62.4	71.2	63.3	72.7	61.9	70.8	59.7	72.0	61.7
Ambient Air Quality Standards in respect of Noise for Industrial Area													75.0	70.0	

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Noise Monitoring Results
Period: October'19 - March'20 (Monthly Average Values)

BUFFER ZONE NOISE

Sl. No.	NOISE MONITORING LOCATIONS	Oct-19		Nov-19		Dec-19		Jan-20		Feb-20		Mar-20		Six Monthly Average	
		Results in dB(A) Leq (Day)	Results in dB(A) Leq (Night)	Results in dB(A) Leq (Day)	Results in dB(A) Leq (Night)	Results in dB(A) Leq (Day)	Results in dB(A) Leq (Night)	Results in dB(A) Leq (Day)	Results in dB(A) Leq (Night)	Results in dB(A) Leq (Day)	Results in dB(A) Leq (Night)	Results in dB(A) Leq (Day)	Results in dB(A) Leq (Night)	Day	Night
1	NUAPADA	48.5	41.5	50.6	43.2	51.2	43.8	48.5	41.4	47.4	38.2	49.1	41.6	49.2	41.6
2	(TOWNSHIP) NUAPADA	49.8	42.9	52.1	40.4	53.9	45.2	49.3	39.5	50.2	40.1	52.5	39.7	51.3	41.3
3	DORAGUDA	48.2	39.3	48.5	42.9	50.5	42.8	47.6	38.9	48.3	39.5	49.7	38.8	48.8	40.4
4	KUCHEIPA DAR	49.7	40.6	47.8	43	48.7	40.1	49.5	40.5	48.7	41.6	51.4	42.3	49.3	41.4
5	POLICE STATION DORAGUDA	50.9	41.4	52.3	39.3	52.4	44.7	50.4	42.2	51.5	38.7	49.9	40.2	51.2	41.1
6	DIMUNDI	52.4	43.7	52.8	41.5	53.3	43.2	51	41.8	50.6	40.4	52.5	41.8	52.1	42.1
Ambient Air Quality Standards in respect of Noise for Residential 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.


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