

**UAIL /ENV/2022-23/02****May 26, 2022**

To,

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

Subject: Half yearly compliance Status of Environment Clearance condition pertaining to Alumina Refinery, M/s Utkal Alumina International Ltd, Doraguda for the period From October'2021 to March'2022.

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

Dear Sir,

Pleased find enclosed herewith half yearly compliance status on Environmental Clearance pertaining to Alumina Refinery, M/s Utkal Alumina International Ltd, Doraguda for the period from **October'2021 to March'2022** with respect to our Expansion Project of Alumina Refinery (1.5 to 3.0 MTPA) and Co- Generation Power Plant (90 to 150 MW) vide **Ministry's letter No. J-11011/753/2007-IA II (I) dated 25.06.2018**

This is for your kind information and necessary record please.

Thanking you,

Yours faithfully,

For Utkal Alumina International Ltd.**Mazharullah Beig****Unit Head & President**

Encl: As above.

Copy To: (i) Member Secretary, OSPCB, Bhubaneswar.
(ii) Regional Office, CPCB, Kolkata.
(iii) Regional Officer, OSPCB, 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 2021 to 31st March 2022

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 runoff or seepage from the red mud disposal site to natural drainage. Plan shall be prepared and implemented for utilising the already generated red mud in a time bound manner.	Red mud pond has been constructed as per the design and drawing approved by State Pollution Control Board vide their Letter No. 19306/IND-IV-HW-931 dated 30.08.2012. The red mud pond is lined with clay & 1.5 mm HDPE liner with sub-soil drainage collection & reuse system, run-off drainage network and leachate collection facility. The semi-dry red mud cake generated from red mud filtration unit is being stored in the active red mud pond- A. Piezometers have been installed near the Red Mud Pond for monitoring of ground water. Monitoring of ground water is being carried out regularly. The results of ground water quality are found well within the norms and the same is attached in Annexure-I . The following provisions has been made to ensure the storm water management: i. Garland drains have been provided all around the Red Mud Pond to divert the storm water of adjacent area to natural nallah. ii. Drain and collection pit has been arranged within the mud stacking pond and the accumulated water is being pumped back to the same process or collected in the supernatant water storage pond- C for continuous recycle & use in the process. iii. Drains have been provided adjacent to dyke of active pond- A and channelized to pond- C. iv. Water quality of nearby river is being monitored regularly to check contamination if any and the results are attached in Annexure-VI .



		<p>Red Mud Utilization Plan:</p> <p>R&D scheme has been developed with various research laboratories like CRRI, IIT, IMMT, NML, and Cement Industries for its productive utilization in road construction applications, cement production and Mine void backfilling.</p> <p>Status of Pilot Study for Red Mud utilization in mine void backfilling:</p> <p>This is to further update about the progress made in the pilot project till date. The project is moving ahead with synchronisation of regulatory clearances from State Pollution Control Board and other authorities.</p> <ol style="list-style-type: none"> 1. Approval of revised Mining and Progressive Mine Closure Plan incorporating the red mud pilot project has been obtained from Indian Bureau of Mines, Regional Office, Bhubaneswar. 2. CTE & CTO are obtained from OSPCB for Mine Void Filling of Red Mud in Pit1 having capacity of 35,000 Cum, at our Baphalimali Mines. 3. Red Mud mine void filling work is under progress. 4. Air Pollution Control measures in form of mobile water sprinkling arrangements, vehicle mounted misting canons at fine handling areas, wheel washing facility for trucks, Tarpaulin tying platform are being provided. <p>UAIL (Hindalco) is committed to implement this pilot project which will be able to achieve a remarkable utilisation of bulk wastes like Bauxite residue (Red Mud) and will create a significant step towards sustainability of alumina refineries in our country.</p> <p>60603 MT Red Mud supplied to UltraTech Cement, Maharashtra & Balaji Cement, AP for FY2021-22.</p>
3	<p>Water spraying on the red mud pond shall be arranged to prevent fine dust from being blown off the stack. Longer-term treatment of the red mud shall include reclamation of the mud ponds, neutralization, covering with topsoil, and planting with vegetation.</p>	<p>Fixed rain gun water sprinkling system, fog cannon of capacity 12 KL is being provided at red mud pond for dust suppression. In addition to this, water tankers are being deployed for water sprinkling on haulage roads of the red mud pond.</p> <p>Presently, mud stacking is going on in Pond- A and pond B. However, the longer-term treatment will be prepared once the red mud pond is ready to be closed.</p>
4	<p>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.</p>	<p>Since filter plant is established to produce red mud in semi dry condition, no decant water from red mud pond is generated except the precipitation water collected during monsoon season. Red mud slurry from the plant is fed to Red Mud Filtration unit where in the dry mud cake is stacked in red mud pond and the filtrate is recycled back to the process. The decanted water, (run-</p>



		off) from the Red Mud Ponds 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>The plant is situated at a remote place and no cement industry exists within 150 km radius of the plant. However, we have developed local entrepreneurship to establish fly ash brick manufacturing units in coordination with Regional Industrial Centre, Rayagada and now 20 nos. of brick manufacturing units are established. At the time of commission of the CPP in the year 2013, there was a single ash manufacturing unit and the ash supply to brick units was 8760 MT (5%) in FY 2014-15 and in FY 2021-22, it has gone up to 24332 MT (8 %).</p> <p>Efforts are being taken continuously for 100% ash utilization and supply of ash to cement units is being in progress. Ash utilization for the period of October'2021 to March'2022 is 86.97%. The Average Ash Utilization for FY2021-22 is 87.90 %.</p> <p>24332(7.56 %) MT & 144924 (45.01 %) MT Fly Ash supplied to Brick Manufacturing Units, & Cement Industries respectively for FY2021-22. 112560(34.96 %) MT Ash was utilized in low laying area for land development inside the plant.</p>
	The company shall construct separate RCC drains for carrying storm water inside the plant.	A dedicated RCC storm water drainage network has been provided connecting all drains and diverted to a pond, called Guard Pond for sedimentation & neutralisation if required.
7	The water drawl shall not exceed 20,000 m3/day (existing and the expansion project put together).	Intake Water drawn & used from San River is within the permissible limit of 20000 m3/day. Average daily drawl of water from October'2021 to March'2022 is 14902 m3/day.
8	An amount of 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 up to 2.27 MTPA was completed, 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.	Green belt is being developed preferring indigenous species during monsoon season of every year as per CPCB Guidelines. Till now an area of 302 Ha has been covered for green belt development against total acquired area of 1069.51 Ha which is 28.25 %. Enhanced native species by collecting seeds from local forest & developed saplings in-house Nursery. Target to plant 50,000 sapling in each year, which is 20 Ha Annually. Greenbelt development will continue in the coming years to achieve 353Ha (33%).



10	The Capital cost Rs. 255.00 Crore and annual recurring cost Rs. 5.55 Crores towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.	Agreed. The funds earmarked for environmental protection is being utilized for the said purpose only. The total recurring annual expenditure during the financial year 2021-22 was Rs. 4867.00 lakh and the capital cost for FY2020-21 & FY2021-22 are 16032 & 13038 lakh respectively. The detail of the expenditure is enclosed as Annexure – III.
11	Kitchen waste shall be composted or converted to biogas for further use.	Agreed.
12	The project proponent shall (Air Quality Monitoring):	
	a. install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 742 (E) dated 30th August 1990 and thereafter amended vide G.S.R 46 (E) dated 3rd February 2006 (Aluminium); S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Continuous emission monitoring systems (CEMS) have been provided in the running Cogeneration thermal power plant and Calciners of the alumina refinery. These Continuous Emission monitoring systems have been connected with the servers of the OSPCB & CPCB for continuous online transmission of the data through RTDAS. The CEMS is calibrated as per the supplier specification. Remote calibration facility for the CPP gaseous emission has also been provided as per the CPCB guideline. Similar system shall be installed in the proposed expansion also.
	b. Monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Fugitive emission monitoring at specified locations in the plant is being carried out through NABL accredited laboratory and the analysis reports are attached in Annexure-IV.
	c. Install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ 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 are in operation & as per the OSPCB directive to monitor the ambient air quality for the parameters PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO on continuous basis. Real-time data is connected to SPCB server.



d. submits 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'2021 to March'2022 is attached as **Annexure-V**.

The summary of stack emission & ambient air quality monitoring data during the period October'2021 to March'2022 is as below.

1. Stack Attached to Calciner - I

Parameter	Max.	Min.	Avg.	Norm
Particulate Matter (mg/Nm ³)	33.1	18.6	23.0	50

2. Stack Attached to Calciner - II

Parameter	Max.	Min.	Avg.	Norm
Particulate Matter (mg/Nm ³)	35.1	17.6	23.2	50

3. Stack Attached to Calciner - III

Parameter	Max.	Min.	Avg.	Norm
Particulate Matter (mg/Nm ³)	33.6	17.5	23.40	50

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

4. Stack Attached to Boiler, Unit-1 of Power Plant

Parameter	Max.	Min.	Avg.	Norm
Particulate Matter (mg/Nm ³)	45.2	38.7	41.8	50
SO ₂ (mg/Nm ³)	573.0	489.0	534.1	600
NO _x (mg/Nm ³)	246.4	188.0	220.2	300



5. Stack Attached to Boiler, Unit-2 of Power Plant

Parameter	Max.	Min.	Avg.	Norm
Particulate Matter (mg/Nm ³)	46.2	37.8	42.5	50
SO ₂ (mg/Nm ³)	583.0	489.0	583.0	600
NO _x (mg/Nm ³)	271.7	189.0	226.3	300

6. Stack Attached to Boiler, Unit-3 of Power Plant

Parameter	Max	Min	Avg	Norm
Particulate Matter (mg/Nm ³)	48.3	40.2	44.3	50
SO ₂ (mg/Nm ³)	586.0	478.0	543.8	600
NO _x (mg/Nm ³)	267.0	186.0	219.8	300

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

Ambient Air Quality (AAQ)

Parameter	Max.	Min.	Avg.	NAAQS
PM ₁₀ (µg/m ³)	68.4	37.0	53.9	60
PM _{2.5} (µg/m ³)	39.6	19.8	29.5	40
SO ₂ (µg/m ³)	15.4	5.7	10.1	50
NO ₂ (µg/m ³)	24.7	12.4	19.1	40
CO (mg/m ³)	0.63	0.24	0.42	4

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.



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 wastewater generated in the Alumina refinery are alkaline in nature. All these wastewaters from the process are centrally collected through a dedicated drainage system (RCC) in a concrete pond called the Caustic Pond, bottom lined with LDPE. The wastewater 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 wastewater 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 except during heavy rain fall.

Thus, the wastewater generated is being reused in the process and no wastewater 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 and the same also connected to the SPCB/CPCB server.

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. Ground Water Analysis report is enclosed in **Annexure-VI**.

c. submits 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 Office of SPCB along with six-monthly monitoring report.

Since, it is a Zero discharge plant, no effluent is discharged outside. Surface run-off & storm water during monsoon season is discharged through the guard pond 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 monitored in and around the plant premises. Analysis report of Ground Water is enclosed in **Annexure-VI**.



14 The project proponent shall (Air Pollution Control):

a. ensures ambient air quality around the project site as prescribed under National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 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 four CAAQMS.

The summary of the ambient air quality monitoring data during the period October'2021 to March'2022 is as below.

Ambient Air Quality (AAQ)

Parameter	Max.	Min.	Avg.	NAAQS
PM ₁₀ (µg/m ³)	68.4	37.0	53.9	60
PM _{2.5} (µg/m ³)	39.6	19.8	29.5	40
SO ₂ (µg/m ³)	15.4	5.7	10.1	50
NO ₂ (µg/m ³)	24.7	12.4	19.1	40
CO (mg/m ³)	0.63	0.24	0.42	4

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.

b. provides 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 & Three Calciners of the Alumina Refinery with online continuous emission 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 dust suppression system at transfer points for bauxite transportation have been provided.

d) Two No's of wet scrubbers and Three no.'s of vacuum cleaner are provided at lime handling area.

Proposed: Similar system shall be provided in the proposed expansion.



	c. provides leakage detection and mechanised bag cleaning facilities for better maintenance of bags;	Bag filters have been provided with differential pressure transmitter which measures pressure of inlet and outlet, and any high differential pressure gives indication of blockage. We have monthly schedule of cloth cleaning and inspection to ensure better maintenance of the bags.
	d. provides sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;	Mechanised sweeping machine, industrial vacuum cleaners are being used to clean the plant roads, shop floors and other areas.
	e. ensures 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 and covered conveyor system inside the plant.
	f. provides covered sheds for raw materials like bauxite, coal, etc;	Covered shed is already provided at coal & lime and Bauxite Yard.
	g. recycles 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. adheres to 'zero liquid discharge':	The concept of zero discharge is being strictly followed.
	b. provides Sewage Treatment Plant for domestic wastewater; and	The domestic wastewater after treatment in Sewage Treatment Plant (STP) is being utilized for green belt development. Analysis Report of STP treated water is enclosed in Annexure-VII .
	c. provides garland drains and collection pits for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	The surface run-off water from bauxite & coal handling area is collected centrally in the RCC lined Settling Pond.
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 rainwater harvesting inside the plant is not possible. The rainwater during rainy season is being collected in guard pond, caustic pond, holding pond and RMP is reused in the process avoiding usage of fresh water. However, six recharge pits have been constructed to harvest roof top rainwater for ground water recharge at the township.
	b. reduces 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 are being disposed using High Concentration Slurry Disposal (HCSD) having 60% solids to state of the art & latest red mud filtration (RMF) unit as per the CREP guidelines. Disposal of red mud through pressure filters having 80% solids on impervious ponds has saved water consumption due to water recycle in the form of filtrate of the RMF unit. Red Mud Filtration has helped in reducing water consumption.



17	The project proponent shall (Energy Conservation):	
	a. provides waste heat recovery system (pre-heating of combustion air) at the flue gases.	This is part of the design in the Calciner & CPP units. New 5th gen Calciner-3 from M/s FL Smidth & targeted 7% reduction in HFO specific Consumption by reducing skin temp.
	b. provides solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, 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. Approx. 2200 no's of Conventional well glass luminaries replaced.
18	Used refractories shall be recycled as far as possible.	Used Refractory around 157.99 MT supplied to Ambuja Cement.
19	Oily scum and metallic sludge recovered from ETP shall be mixed, dried, and briquetted and reused.	It is an Alumina Refinery plant and site-specific effluent treatment facility have been provided and the treated effluents are being reused. There is no generation of oily scum and metallic sludge in the process. In this regard, we had already requested your good office to exclude this condition vide our letter no. UAIL/ENV/2018-19/96 dated 16.07.2018.
20	The project proponent shall prepare GHG emissions inventory and shall submit the programme for reduction of the same including carbon sequestration including plantation.	The source of GHG emissions is coal fired boilers of CPP and FO used Calciner Burners. Utilization of coal & FO has been reduced by optimizing energy utilization. The other programs are (i) commissioning of 5 MW solar energy Plant for fully utilization in plant & township (ii) mass plantation around the plant area. Noted for compliance.
21	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency Preparedness Plan based on HIRA and Disaster Management Plan has been prepared & implemented. The DMP is approved by the Director of Factories & Boilers, Odisha.
22	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Heat stress analysis of workmen of high temperature work zone is being carried out and PPEs like high temperature resistant suits are being provided as per the norms of Factory Act.
23	The project proponent shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.	Agreed, followed, and informed.
24	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses.	Provided.



25	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Fly ash is being supplied to fly ash brick manufacturing units, cement industry, road making and land development. The agreement/order for lifting the fly ash with the brick manufacturers is attached as Annexure VIII .
26	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium Industry shall be implemented.	As per CREP guideline, two issues (i) Phasing out of wet disposal of Red Mud & (ii) Utilisation of Red mud come under the purview of Alumina Refinery Plant. Red Mud is disposed using High Concentration Slurry Disposal (HCSD) with 60% solids to red mud filtration unit as per the CREP guidelines. The filtered cake is being stored in the impervious Bauxite residue pond. Utilisation plan is made as intimated in the earlier conditions.
27	A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.	An independent environment management cell has been established by the unit for monitoring of environmental parameters and implementation of effective control measures related to environment management. The head of the environment cell is directly reporting to the unit head of Utkal.
28	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Mobile toilets, sewage treatment plant, safe drinking water, medical health care unit, crèche etc. have been provided inside the proposed expansion site. As the existing plant is in running condition, the housing for the construction labour is provided outside the plant with all necessary infrastructure.
29	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed & bring adhered.
30	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted & agreed.
31	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Hazardous waste is being disposed to the authorized recyclers/ reprocessors of CPCB as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.



32	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during daytime and 70 dB(A) during night-time.	<p>Noise control measures have been implemented to maintain the noise levels within the norms. Noise level analysis report for the period October'2021 to March'2022 is enclosed at Annexure-IX.</p> <p>The summary of noise during the period October'2021 to March'2022 is as below.</p> <table border="1" data-bbox="797 369 1430 583"> <thead> <tr> <th>Area</th> <th>Max</th> <th>Min</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Industrial (Day)</td> <td>72.6</td> <td>70.8</td> <td>72.2</td> </tr> <tr> <td>Industrial (Night)</td> <td>62.7</td> <td>50.7</td> <td>59.9</td> </tr> <tr> <td>Residential (Day)</td> <td>47.0</td> <td>44.8</td> <td>48.2</td> </tr> <tr> <td>Residential (Night)</td> <td>38.4</td> <td>34.7</td> <td>38.3</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.</p>	Area	Max	Min	Avg	Industrial (Day)	72.6	70.8	72.2	Industrial (Night)	62.7	50.7	59.9	Residential (Day)	47.0	44.8	48.2	Residential (Night)	38.4	34.7	38.3
Area	Max	Min	Avg																			
Industrial (Day)	72.6	70.8	72.2																			
Industrial (Night)	62.7	50.7	59.9																			
Residential (Day)	47.0	44.8	48.2																			
Residential (Night)	38.4	34.7	38.3																			
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 & being implemented.																				
35	<p>The project proponent shall (Post-EC Monitoring):</p> <p>a. sends a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies, and relevant offices of the Government;</p> <p>b. put on the clearance letter on the web site of the company for access to the public.</p> <p>c. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http://envfor.nic.in.</p>	<p>Complied.</p> <p>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)</p> <p>The same was published in local newspapers namely "The political business daily" in English and "The Sambada Kalika" in Odia that are widely circulated in the region.</p>																				



	d. uploads the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;	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-April'21-September'21.pdf)
	e. monitors 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-April'21-September'21.pdf
	f. submits 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;	Six monthly reports are being submitted regularly to Regional Office of the Ministry at Bhubaneswar / Central Pollution Control Board / SPCB, Odisha within stipulated time. However, as per the new notification, six monthly compliance report is being submitted in soft copy.
	g. submits 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;	Environment Statement for each financial year is being submitted annually to SPCB. The latest Environment Statement for 2020-21 was submitted to SPCB & MoEF & CC on 23-09-2021 & uploaded in the Company Website.
	h. informs 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.	Noted & agreed.
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.	Noted
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	Noted
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. No. 5697 of 2007 was dismissed as withdrawn being infructuous. The outcome of the W.P. issued by High Court of Odisha is submitted to your good office along with six monthly compliance report for the period Apr'19 to Sept'19 vide our letter no. UAIL/ENV/2019-20/25 dated 29-11-2019.Hence complied.
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.	Noted.



Annexure-II	
ENTERPRISE SOCIAL COMMITMENT (FY 2021-22) Utkal Alumina International Ltd. Doraguda, Rayagada	
Enterprise Social Commitment	Amount in Rs.
(A) Health Care, Eradicating Hunger, Poverty and Malnutrition	
Preventive Health Care	0.00
Curative Health Care Program	0.00
Quality/Support Program	0.00
Health Infrastructure	23,828,346.81
Sub Total (A)	23,828,346.81
(B) Promoting Education and Employment Enhancing Vocation Skills	
School Education Program (SEP)	0.00
School Infrastructure	83,207,762.12
Sub Total (B)	83,207,762.12
(C) Social Empowerment ,promoting gender equality, empowering women	
Social Security	0.00
Sub Total (C)	0.00
(D) Ensuring environmental sustainability	
Agriculture and Farm Based	2,153,193.00
Non farm & Skills based income generation program	0.00
Livelihood Infrastructure	2,888,041.15
Sub Total (D)	5,041,234.15
(E) Promotion of Heritage/Art and Culture/Sports	
(F) Promotion of Sports	0.00
(G) Rural Infrastructure Development	22,565,047.23
Grand Total	134,642,390.31



Annexure-II	
CSR Expenditure (FY 2021-22)	
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	6,843,093.14
Curative Health Care Program	63,702,125.13
Quality/Support Program	2,897,945.85
Health Infrastructure	11,876,748.65
Sub Total (A)	85,319,912.77
B. Promoting Education and Employment Enhancing Vocation Skills	
School Education Program	28,870,190.12
Education Support Programs	1,311,460.00
School Infrastructure	2,583,072.39
Sub Total (B)	32,764,722.51
C. Social Empowerment ,Promoting Gender Equality, Empowering Women	
Institutional building & strengthening	-
Social Security	1,420,363.00
Awareness Programmes	2,880.00
Social Events to minimise causes of poverty	0.00
Sub Total (C)	1,423,243.00
D. Ensuring Environmental Sustainability	
Agriculture and Farm Based	9,152,654.34
Animal Husbandry	115,945.00
Non farm & Skills based income generation program	6,619,260.69
Natural Resource conservation programs & Non conventional Energy	3,733,418.00
Livelihood infrastructure	4,243,885.87
Sub Total (D)	23,865,163.90
E. Promotion of Heritage/Art and Culture/Sports	
	1,224,500.00
F. Promotion of Sports	
	3,666,820.95
G. Rural Infrastructure Development	
	14,474,227.06
H. Disaster Relief Program's	
	0.00
Grand Total	162,738,590.19



Annexure-III

Utkal Alumina International Ltd.

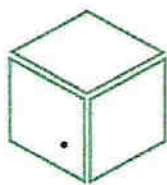
Capital Cost for Environmental Protection Measures for FY2021-22

Sl. No.	Particulars	Name of Equipment	Rs. In Lakhs
I	AIR POLLUTION CONTROL		
1	Electrostatic precipitator	ESP(Calcination)	442
2	Chimney	Stack(Calcination)	607
		Stack(Seed)	26
3	Flue Gas Desulphurization System unit for boilers		0
4	Dust Collector — Bag Filters	Bag Filters(BHP)	90
		Bag Filters(Calcination)	30
5	Water Sprayer (Stationary)	DSS(BGP)	60
		DFDSS(BHP)	219
		Calcination	66
6	Erection of Bauxite Shed to control dust in Yard		2200
	Sub-Total (I)		3739
II	WATER POLLUTION CONTROL		
1	Domestic effluent treatment plant		0
2	Industrial ETP		0
3	Storm water drains, Caustic drain		235
4	Caustic Pond/Guard Pond		0
5	Sewage System		0
6	Ash Pond/Red Mud Pond lining		8300
7	Sump Pit & Pumps		365.53
	Sub-Total (II)		8900.53
III	NOISE POLLUTION CONTROL		
			96.8
IV	ENV. MONITORING AND LAB INSTRUMENTS		
			81
V	OCCUPATIONAL HEALTH & FIRE FIGHTING SYSTEM		
1	Occupational Health Equipment		0
2	Fire Fighting Equipment & Network System		220
VI	GREEN BELT & PLANTATION		
			0
VII	RAIN WATER HARVESTING		
			0
	GRAND TOTAL		13038

Recurring Annual Cost for Environmental Protection Measures for FY2021-22

Sl. No.	Particulars	Rs. In Lakhs
1	Air Pollution Control	841.74
2	Water Pollution Control	91.67
3	Waste Management	3620.70
4	Noise Pollution Control	0.00
5	Environmental Monitoring and Management	121.02
6	Occupational Health	33.18
7	Green Belt & Plantation	141.27
8	Other(Environmental Studies, Expert advice etc.)	17.00
	Total	4867





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● Renewable Energy

● Agricultural Development
● Information Technology
● Public Health Engineering

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

Ref: Envlab/22/R-1623

Date: 07.04.2022

ANNEXURE-I

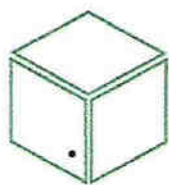
Ground Water Quality

Period: October'21 - March'22

Piezometer at Red Mud Pond

Sl. No.	Parameters	Unit	IS-10500 Standards	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Color	Hazen	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.27	7.18	7.35	7.31	7.20	7.43
4	Turbidity	NTU ,Max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	228.0	203.0	188.0	193.0	215.0	242.0
6	Temperature	^o C	-	24.1	25.2	24.6	24.3	25.1	25.8
7	Conductivity	μS/cm	-	360.0	323.0	294.0	308.3	340.6	382.7
8	Calcium (as Ca)	mg/l, max	75	23.6	21.8	19.6	21.6	24.8	28.6
9	Chloride (as Cl)	mg/l, max	250	22.5	19.0	21.0	24.5	27.5	30.0
10	Copper (as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.34	0.26	0.24	0.22	0.27	0.32
12	Free residual Chlorine	mg/l, min	0.2	0.30	0.30	0.30	0.30	0.30	0.30
13	Iron (as Fe)	mg/l, max	1.0	0.22	0.17	0.21	0.23	0.28	0.32
14	Magnesium (as Mg)	mg/l, max	30	12.4	8.6	8.5	6.8	7.3	8.4
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C ₆ H ₅ OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium (as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO ₄)	mg/l, max	200	13.6	12.3	12.7	13.5	12.3	10.7
21	Total Alkalinity	mg/l, max	200	76.0	68.0	74.0	70.0	76.0	84.0
22	Total Hardness	mg/l, max	200	110.0	90.0	84.0	82.0	92.0	106.0
23	Zinc (as Zn)	mg/l, max	5	0.27	0.25	0.22	0.19	0.21	0.24
24	Cadmium (as Zn)	mg/l,Max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l,Max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l,Max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury(as Hg)	mg/l,Max	0.001	<0.002	<0.002	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l,Max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l,Max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1





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● Public Health Engineering

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

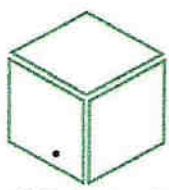
Ref: Envlab/22/R-1624

Date: 07.04.2022

ANNEXURE-IV

Ambient Air Quality (FUGITIVE DUST) Monitoring Results							
Period: October'21 - March'22 (Monthly Average Values)							
FUGITIVE DUST	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Half Yearly Average
Alumina Handling Area	77.0	84.0	87.0	91.0	83.0	87.0	84.83
Bauxite Handling Area	80.0	83.0	89.0	85.0	90.0	93.0	86.67
Lime Handling Area	81.0	88.0	85.0	88.0	82.0	86.0	85.00
Coal Handling Area	73.0	79.0	83.0	90.0	94.0	89.0	84.67
Material Gate	69.0	74.0	71.0	78.0	76.0	73.0	73.50
Ash Handling Area	86.0	89.0	92.0	95.0	89.0	84.0	89.17
Traffic center	75.0	79.0	82.0	80.0	74.0	76.0	77.67
Rod Mill Area	68.0	74.0	70.0	76.0	72.0	75.0	72.50





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● Public Health Engineering

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● Mineral/Sub-Soil Exploration
● Waste Management Services

Ref: Envlab/22/R-1625

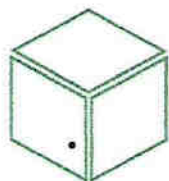
Date: 07.04.2022

ANNEXURE-V

Stack Monitoring Results								
Period: October'21 - March'22 (Monthly Average Values)								
1. Stack Attached to Calciner - I								
Parameter	Prescribed Standard	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Six Months average
Temperature °C	....	166.5	168.0	163.3	174.5	171.8	175.2	169.9
Velocity m/sec	....	6.78	6.71	6.61	7.04	6.60	7.37	6.85
Particulate Matter mg/Nm ³	50	21.1	22.0	21.0	21.0	21.5	29.8	22.7
SO ₂ (mg/Nm ³)	....	260.8	256.8	232.5	217.3	217.0	197.0	230.2
NOx (mg/Nm ³)	....	136.0	133.3	136.0	134.5	132.6	135.8	134.7
2. Stack Attached to Calciner - II								
Parameter	Prescribed Standard	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Six Months average
Temperature °C	....	169.5	168.0	169.0	170.3	169.3	170.7	169.5
Velocity m/sec	....	7.0	6.72	6.95	6.61	6.27	6.92	6.75
Particulate Matter mg/Nm ³	50	22.2	23.9	22.0	20.8	20.5	32.1	23.6
SO ₂ (mg/Nm ³)	....	269.0	247.0	246.5	219.0	207.0	215.3	234.0
NOx (mg/Nm ³)	....	131.0	128.5	135.0	141.5	127.5	132.6	132.7
3. Stack Attached to Calciner - III								
Parameter	Prescribed Standard	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Six Months average
Temperature °C	....		168.0	172.5	176.8	173.3	171.5	172.4
Velocity m/sec	....	Under Shut	6.74	7.35	7.45	6.91	7.05	7.10
Particulate Matter mg/Nm ³	50		19.9	21.7	20.6	22.0	31.3	23.1
SO ₂ (mg/Nm ³)	....	Down	236.5	240.0	225.3	227.8	216.3	229.2
NOx (mg/Nm ³)	....		130.5	137.0	139.3	131.0	139.8	135.5
4. Stack Attached to Boiler, Unit-1 of Power Plant								
Parameter	Prescribed Standard	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Six Months average
Temperature °C	....	114.3	111.3	110.0			114.0	112.4
Velocity m/sec	....	11.7	12.5	15.5	Under Shut	Under Shut	13.0	13.2
Particulate Matter mg/Nm ³	50	41.40	42.80	41.80	Down	Down	40.70	41.7
SO ₂ (mg/Nm ³)	600	527.5	534.8	554.0			536.0	538.1
NOx (mg/Nm ³)	300	218.3	213.5	227.0			234.0	223.2
5. Stack Attached to Boiler, Unit-2 of Power Plant								
Parameter	Prescribed Standard	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Six Months average
Temperature °C	....		117.0	113.8	112.0	112.3	116.0	114.2
Velocity m/sec	....	Under Shut	12.50	16.24	16.35	15.15	13.08	14.66
Particulate Matter mg/Nm ³	50		40.6	42.3	43.1	43.2	43.3	42.5
SO ₂ (mg/Nm ³)	600	Down	517.3	548.0	550.3	552.3	544.3	542.4
NOx (mg/Nm ³)	300		211.3	214.5	230.8	229.3	247.2	226.6
6. Stack Attached to Boiler, Unit-3 of Power Plant								
Parameter	Prescribed Standard	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Six Months average
Temperature °C	....	125.3	121.0	109.0	114.5	116.0	126.0	118.6
Velocity m/sec	....	12.68	13.68	15.68	16.92	17.36	14.25	15.10
Particulate Matter mg/Nm ³	50	43.6	42.7	42.8	46.3	44.0	45.1	44.1
SO ₂ (mg/Nm ³)	600	515.5	539.0	541.3	553.5	552.3	561.7	543.9
NOx (mg/Nm ³)	300	221.5	251.0	211.7	220.5	215.8	219.7	223.4

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





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● Renewable Energy

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● Information Technology
● Public Health Engineering

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

Ref: Envlab/22/R-1626

Date: 07.04.2022

ANNEXURE-V

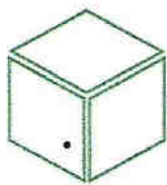
Ambient Air Quality (AAQ) Monitoring Results

Period: October'21 - March'22 (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-21	50.3	27.9	9.2	18.3	0.32
Nov-21	54.9	30.2	10.7	19.4	0.31
Dec-21	58.4	32.9	11.2	20.5	0.35
Jan-22	58.1	31.5	10.8	19.6	0.38
Feb-22	57.0	30.6	11.0	19.2	0.46
Mar-22	56.5	30.7	10.6	20.2	0.48
Six Monthly Average	55.9	30.6	10.6	19.5	0.38
AAQ-2: 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-21	55.2	31.3	11.5	20.1	0.46
Nov-21	59.0	33.5	12.1	21.3	0.49
Dec-21	62.3	34.9	13.3	22.1	0.53
Jan-22	61.2	33.4	13.0	21.2	0.55
Feb-22	62.7	34.1	12.8	21.4	0.53
Mar-22	58.6	33.8	13.2	22.1	0.54
Six Monthly Average	59.8	33.5	12.7	21.4	0.52
AAQ-3: Dimundi Boundary Side	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-21	52.2	29.0	10.3	18.5	0.42
Nov-21	53.5	29.3	11.7	20.8	0.42
Dec-21	59.5	32.7	12.3	21.2	0.45
Jan-22	58.5	31.7	12.0	21.4	0.43
Feb-22	59.2	31.9	12.4	21.7	0.51
Mar-22	58.1	32.0	11.3	20.6	0.53
Six Monthly Average	56.8	31.1	11.7	20.7	0.46

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





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Ref: Envlab/22/R-1627

Date: 07.04.2022

ANNEXURE-V

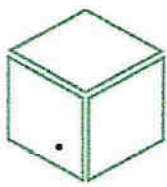
Ambient Air Quality (AAQ) Monitoring Results

Period: October'21 - March'22 (Monthly Average Values)

AAQ-4: BSNL Tower	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-21	49.7	27.6	8.6	17.8	0.36
Nov-21	52.9	29.2	10.0	19.3	0.37
Dec-21	58.1	31.6	11.3	19.9	0.42
Jan-22	57.7	31.2	11.0	19.3	0.44
Feb-22	58.2	32.0	11.3	20.1	0.55
Mar-22	57.5	31.7	11.0	20.5	0.56
Six Monthly Average	55.7	30.6	10.5	19.5	0.45
AAQ-5: 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-21	56.4	32.1	11.2	20.2	0.47
Nov-21	59.4	33.4	12.1	21.8	0.49
Dec-21	62.2	35.5	13.7	22.9	0.53
Jan-22	60.7	33.5	13.1	21.7	0.51
Feb-22	62.2	34.3	13.8	22.4	0.53
Mar-22	57.5	33.2	12.2	21.7	0.55
Six Monthly Average	59.7	33.7	12.7	21.8	0.51
AAQ-6: Training Center	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-21	48.2	26.7	7.5	16.7	0.34
Nov-21	52.4	27.7	9.4	17.7	0.35
Dec-21	56.5	31.0	10.8	20.3	0.43
Jan-22	57.8	31.2	10.5	19.6	0.39
Feb-22	56.1	30.2	10.6	18.8	0.41
Mar-22	54.8	29.4	10.0	19.0	0.42
Six Monthly Average	54.3	29.4	9.8	18.7	0.39

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





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Ref: Envlab/22/R-1628

Date: 07.04.2022

ANNEXURE-VI

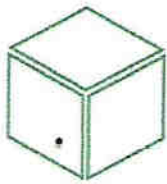
Ground Water Quality

Period: October'21 - March'22

GW1: Kuchipadar

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Color	Hazen. max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.16	7.27	7.38	7.45	7.29	7.15
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	219.0	187.0	176.0	188.0	195.0	223.0
6	Temperature	°C	-	25.1	24.3	24.8	24.4	25.2	25.8
7	Conductivity	µS/cm	-	351.0	302.0	279.0	292.7	310.6	348.5
8	Calcium (as Ca)	mg/l, max	75	29.4	26.6	23.4	25.4	27.4	29.2
9	Chloride (as Cl)	mg/l, max	250	25.5	23.0	20.0	22.5	26.0	23.5
10	Copper (as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.29	0.24	0.21	0.17	0.22	0.25
12	Free residual Chlorine	mg/l, min	0.2	0.30	0.30	0.30	0.30	0.30	0.30
13	Iron (as Fe)	mg/l, max	1.0	0.24	0.21	0.17	0.21	0.26	0.31
14	Magnesium (as Mg)	mg/l, max	30	8.4	7.7	7.2	5.5	5.7	3.2
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C ₆ H ₅ OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium(as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO ₄)	mg/l, max	200	10.8	10.3	9.6	10.5	13.2	12.3
21	Total Alkalinity	mg/l, max	200	78.0	70.0	74.0	80.0	84.0	72.0
22	Total Hardness	mg/l, max	200	108.0	98.0	88.0	86.0	92.0	86.0
23	Zinc (as Zn)	mg/l, max	5	0.35	0.29	0.25	0.22	0.19	0.21
24	Cadmium (as Cd)	mg/l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l, max	0.001	<0.002	<0.002	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1





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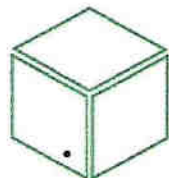
Ref: Envlab/22/R-1629

Date: 07.04.2022

GW2: Baghrihala

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.2	7.13	7.24	7.16	7.35	7.26
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	188.0	192.0	181.0	169.0	178.0	189.0
6	Temperature	°C	-	24.6	25.2	25.6	25.3	26.1	26.6
7	Conductivity	µS/cm	-	298.0	312.0	288.0	269.4	287.4	297.6
8	Calcium (as Ca)	mg/l, max	75	20.0	21.4	18.8	20.0	22.6	24.0
9	Chloride (as Cl)	mg/l, max	250	23.5	21.5	19.5	21.0	20.5	22.5
10	Copper (as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.25	0.23	0.19	0.22	0.19	0.21
12	Free residual Chlorine	mg/l, min	0.2	0.30	0.30	0.30	0.30	0.30	0.30
13	Iron (as Fe)	mg/l, max	1.0	0.21	0.18	0.15	0.18	0.22	0.27
14	Magnesium (as Mg)	mg/l, max	30	9.2	6.5	6.6	4.9	5.2	2.4
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C ₆ H ₅ OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium (as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO ₄)	mg/l, max	200	12.3	11.7	11.2	9.7	10.6	11.8
21	Total Alkalinity	mg/l, max	200	76.0	68.0	60.0	64.0	68.0	76.0
22	Total Hardness	mg/l, max	200	88.0	80.0	74.0	70.0	78.0	70.0
23	Zinc (as Zn)	mg/l, max	5	0.27	0.23	0.21	0.18	0.15	0.17
24	Cadmium (as Cd)	mg/l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l, max	0.001	<0.002	<0.002	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1





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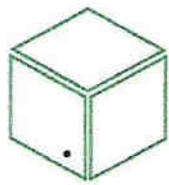
Ref: Envlab/22/R-1630

Date: 07.04.2022

GW3: Dimundi

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.37	7.42	7.33	7.52	7.48	7.54
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	206.0	179.0	158.0	175.0	186.0	209.0
6	Temperature	°C	-	25.3	24.8	25.2	23.8	24.4	25.3
7	Conductivity	µS/cm	-	325.0	287.0	253.0	278.3	292.5	331.4
8	Calcium (as Ca)	mg/l, max	75	26.2	24.0	21.2	23.6	21.8	25.2
9	Chloride (as Cl)	mg/l, max	250	28.0	25.5	23.5	20.5	23.5	27.0
10	Copper (as Cu)	mg/l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg/l, max	1	0.19	0.21	0.20	0.23	0.25	0.28
12	Free residual Chlorine	mg/l, min	0.2	0.30	0.30	0.30	0.30	0.30	0.30
13	Iron (as Fe)	mg/l, max	1.0	0.24	0.22	0.19	0.24	0.21	0.26
14	Magnesium (as Mg)	mg/l, max	30	6.9	6.8	6.6	7.1	6.2	5.6
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg/l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg/l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C ₆ H ₅ OH)	mg/l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium(as Se)	mg/l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO ₄)	mg/l, max	200	9.6	8.7	8.3	8.8	9.2	11.5
21	Total Alkalinity	mg/l, max	200	92.0	84.0	74.0	82.0	76.0	90.0
22	Total Hardness	mg/l, max	200	94.0	88.0	80.0	88.0	80.0	36.0
23	Zinc (as Zn)	mg/l, max	5	0.30	0.25	0.22	0.20	0.23	0.26
24	Cadmium (as Cd)	mg/l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg/l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg/l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l, max	0.001	<0.002	<0.002	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg/l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg/l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1





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Ref: Envlab/22/R-1631

Date: 07.04.2022

GW4: Lachuguda

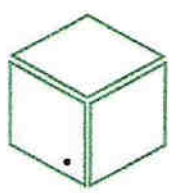
Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Color	Hazen, max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.18	7.26	7.45	7.37	7.31	7.27
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	249.0	222.0	196.0	211.0	197.0	218.0
6	Temperature	°C	-	23.7	24.6	25.1	24.6	25.7	26.2
7	Conductivity	µS/cm	-	396.0	353.0	312.0	333.6	315.3	343.7
8	Calcium (as Ca)	mg/l, max	75	31.6	28.6	24.2	25.8	23.6	30.4
9	Chloride (as Cl)	mg/l, max	250	33.0	29.5	26.5	24.5	22.0	26.5
10	Copper (as Cu)	mg l, max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg l, max	1	0.32	0.28	0.23	0.25	0.21	0.26
12	Free residual Chlorine	mg l, min	0.2	0.30	0.30	0.30	0.30	0.30	0.30
13	Iron (as Fe)	mg l, max	1.0	0.28	0.25	0.22	0.21	0.28	0.30
14	Magnesium (as Mg)	mg/l, max	30	9.5	7.4	8.2	9.1	7.0	6.3
15	Manganese (as Mn)	mg/l, max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg l, max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg l, max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C ₆ H ₅ OH)	mg l, max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium(as Se)	mg l, max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO ₄)	mg/l, max	200	13.7	12.6	10.5	12.6	11.8	13.2
21	Total Alkalinity	mg l, max	200	72.0	76.0	72.0	76.0	70.0	82.0
22	Total Hardness	mg/l, max	200	118.0	102.0	94.0	102.0	88.0	102.0
23	Zinc (as Zn)	mg l, max	5	0.31	0.28	0.24	0.19	0.17	0.15
24	Cadmium (as Cd)	mg l, max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg l, max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg l, max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg l, max	0.001	<0.002	<0.002	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg l, max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg l, max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1

Reviewed by

 Visiontek Consultancy Services Pvt. Ltd.

Approved by

 Visiontek Consultancy Services Pvt. Ltd.



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

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

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Mineral Lab
&
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● Renewable Energy

● Agricultural Development
● Information Technology
● Public Health Engineering

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

Ref: Envlab/22/R-1632

Date: 07.04.2022

GW5: Bhitur Muchikumi

Sl. No.	Parametres	Unit	IS-10500 Standards	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Color	Hazen. max	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	--	6.5-8.5	7.4	7.32	7.47	7.34	7.48	7.33
4	Turbidity	NTU, max	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Total Dissolved Solids (as TDS)	mg/l	500	234	212	196	205	178	184
6	Temperature	°C	-	24.8	24.3	25.1	24.7	25.6	27.1
7	Conductivity	µS/cm	-	373	338	310	324.4	295.3	290.3
8	Calcium (as Ca)	mg l. max	75	28	26.2	25.4	23.4	20.4	26.4
9	Chloride (as Cl)	mg l. max	250	24.5	20.5	22.5	25.5	21	24.5
10	Copper (as Cu)	mg l. max	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Fluoride (as F)	mg l. max	1	0.24	0.21	0.23	0.19	0.21	0.24
12	Free residual Chlorine	mg/l. min	0.2	0.30	0.30	0.30	0.30	0.30	0.30
13	Iron (as Fe)	mg l. max	1.0	0.19	0.22	0.24	0.28	0.24	0.27
14	Magnesium (as Mg)	mg l. max	30	10.7	8.9	6.5	6.7	9	6.8
15	Manganese (as Mn)	mg l. max	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	Mineral oil	mg l. max	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Acidity	mg l. max	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
18	Phenolic compounds (as C ₆ H ₅ OH)	mg l. max	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
19	Selenium(as Se)	mg l. max	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Sulphate (as SO ₄)	mg/l. max	200	12.3	11.5	10.4	11.3	9.4	10.4
21	Total Alkalinity	mg/l, max	200	84	78	82	78	84	78
22	Total Hardness	mg l. max	200	114	102	90	86	88	94
23	Zinc (as Zn)	mg l. max	5	0.33	0.28	0.25	0.22	0.14	0.18
24	Cadmium (as Cd)	mg l. max	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Cyanide (as CN)	mg l. max	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Lead (as Pb)	mg l. max	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg l. max	0.001	<0.002	<0.002	<0.004	<0.004	<0.004	<0.004
28	Total arsenic (as As)	mg l. max	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
29	Pesticide	mg l. max	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
30	Total Coli forms	MPN/100ml	Shall not be detected in any 100 ml sample	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1





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- Quality Control & Project Management
- Renewable Energy

- Agricultural Development
- Information Technology
- Public Health Engineering

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

Ref: Envlab/22/R-1635

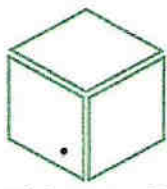
Date: 07.04.2022

ANNEXURE-VII

Treated Water (STP Outlet) Plant Period: October'21 - March'22 (Monthly Average Values)

SL No.	Parameters	Units	Standards (Inland Surface Water) Part-A	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Average
1	pH value		5.5-9.0	7.28	7.41	7.35	7.35	7.28	7.40	7.34
2	Faecal Coliform	MPN/100ml	--	68.1	70.1	70.7	69.3	74.0	78.6	71.8
3	Oil & Grease	mg/l, Max	10	2.6	2.5	3.0	2.6	2.5	2.8	2.7
4	N-Total	mg/l, Max	--	5.3	5.8	6.1	6.3	6.7	7.7	6.3
5	COD	mg/l, Max	250	116.8	120.0	119.8	127.0	123.7	131.6	123.1
6	BOD, 3 Days at 27°C	mg/l, Max	30	11.4	12.2	13.2	12.7	12.0	12.9	12.4
7	Suspended Solid	mg/l, Max	100	48.1	53.7	47.6	52.6	48.7	50.1	50.1
8	Ammonical Nitrogen (as NH ₃ -N)	mg/l, Max	100	2.8	3.1	3.6	3.7	3.7	4.1	3.5





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

Ref: Envlab/22/R-1633

Date: 07.04.2022

ANNEXURE-IX

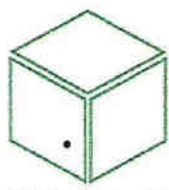
Noise Monitoring Results

Period: October'21 - March'22 (Monthly Average Values)

CORE ZONE NOISE

Sl. No	Noise Monitoring Locations	Oct-21		Nov-21		Dec-21		Jan-22		Feb-22		Mar-22		Six months average	
		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Day	Night
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time		
1	CCR	72.3	57.1	71.4	59.4	72.4	62.3	71.7	64.3	72.6	61.8	70.8	63.3	71.9	61.4
2	Near Main Gate	71.4	53.8	72.6	56.3	71.7	58.6	72.3	60.6	73.2	63.6	72.4	62.8	72.3	59.3
3	CPP Area	73.1	56.5	73.5	59.2	71.9	60.5	72.8	61.8	73.4	64.4	73.0	66.2	73.0	61.4
4	Aluminium Handling Area	71.8	52.4	72.3	50.7	72.6	57.5	71.5	59.4	70.9	62.7	71.4	61.6	71.8	57.4
Ambient Air Quality Standards in respect of Noise for Industrial Area														75	70
Note: No deviation from the AAQ standard in respect of Noise is observed and all the values are within the standard prescribed.															





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● Public Health Engineering

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

Ref: Envlab/22/R-1634

Date: 07.04.2022

ANNEXURE-IX

Noise Monitoring Results Period: October'21 - March'22 (Monthly Average Values)

BUFFER ZONE NOISE

Sl. No	Noise Monitoring Locations	Oct-21		Nov-21		Dec-21		Jan-22		Feb-22		Mar-22		Six months average	
		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Results in dB(A)Leq		Day	Night
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time		
1	Nuapada	46.4	34.8	48.2	37.3	47.3	38.4	46.2	39.7	47.5	40.4	45.8	39.7	46.9	38.4
2	(Township) Nuapada	47.5	39.2	46.7	37.7	48.4	39.2	47.8	36.5	46.9	38.2	48.1	40.3	47.6	38.5
3	Doraguda	44.8	36.6	45.8	34.8	46.1	35.6	47.0	38.2	45.6	37.7	46.5	39.2	46.0	37.0
4	Kucheipadar	46.9	34.7	48.5	38.2	47.8	37.7	48.1	35.5	48.7	36.3	47.3	38.4	47.9	36.8
5	Police Station Doraguda	49.6	37.2	50.1	36.8	51.5	40.8	50.6	42.3	51.2	41.4	50.6	43.1	50.6	40.3
6	Dimundi	50.5	35.5	51.4	39.3	49.7	38.6	50.4	37.7	51.3	39.5	49.5	41.6	50.5	38.7
Ambient Air Quality Standards in respect of Noise for Industrial Area														55	45
Note: No deviation from the AAQ standard in respect of Noise is observed and all the values are within the standard prescribed.															





Ref: 21/MATL/FA/02

Dated: 4-08-2020

**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:

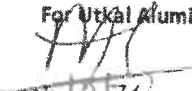
- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges upto your brick industry shall be reimburse to you as follows duly certified by our stores department.

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	5 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
Ph.: 06865237040, Fax: 06865267100
Ph.: 0674 2360881/540, Fax: 0674 2360321

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



Ref: 21/MATL/FA/01

Dated: 04/08/2020

**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:

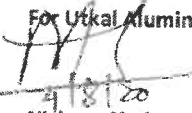
- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges upto your brick industry shall be reimburse to you as follows duly certified by our stores department.


Sino	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 reimbrushed 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.


4/8/20
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.: 06965257040 Fax: 06965287100
Ph.: 0674 2380591/540 Fax: 0674 2380321

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



Ref: 21/MATL/FA/07

Dated: 4-08-2020

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.

Sino	Description	Type of Vehicle	Minimum Capacity of Vehicle in Ton	Rate per Trip (Rs.)
1	Transportation of Fly Ash	10 wheeler	17 (MT)	2000
2	Transportation of Fly Ash	6 wheeler	9 (MT)	1500

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weightment slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weightment slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of 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.: U13203OR1693PLC003416
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Ph.: 0674 2360581/540, Fax: 0674 2360321

Website: www.hindalco.com
Email: utkal_alumina@adityabirla.com



Ref: 21/MATL/FA/08

Dated: 04-08-2020

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.

Sino	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 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

UTKAL ALUMINA INTERNATIONAL LIMITED
Plant & Off.: Doraguda, Po: Kucheipadar, Dist.: Rayagada- 765015, Odisha, India
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Ph: 0674 2360181/540. Fax: 0674 2360321

Website: www.hindalco.com
Email: utkal_alumina@adityabirla.com



Ref: 21/MATL/FA/10

Dated: 1-09-2020

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

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

Ref: Your request letter

Dear Sir,

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

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

Sino	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 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

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.: 06865287940, Fax : 06865287100
Ph : 0674 2360581/540, Fax : 0674 2360321

Website: www.hindalco.com
Email: utkal_alumina@adityabirla.com

ing 18/9/20

GP

DM



Ref: 20/MATL/FA/05

Dated: 04-08-2020

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.

Sino	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: Kuchepadar, Dist.: Rayagada- 765015, Odisha, India
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India

CIN No.: U13205OR1993PLC003416
Ph.: 06885287040, Fax: 06885267100
Ph.: 0674 2380581/540, Fax: 0674 2360321

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



Ref: 20/MATL/FA/16

Dated: 23-02-2021

M/s. M/s.PRAHLAD NAIK

D KORAL KUCHIPADAR,

TIKIRI, RAYAGADA,

ODISHA, 765015

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

Ref: Your request letter

Dear Sir,

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

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

Sino	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 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.

Amit Panda

UTKAL ALUMINA INTERNATIONAL LIMITED

Plant & Off.: Doraguda, Po: Kuchipadar, 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



Ref: 20/MATL/FA/18

Dated: 23-02-2021

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

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

Ref: Your request letter

Dear Sir,

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

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges 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)	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.


Amit Panda
Head-Commercial

UTKAL ALUMINA INTERNATIONAL LIMITED

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

CIN No.: U13203OR1993PLC003416
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Ph.: 0674 2360581/540, Fax: 0674 2360321

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

Pamela Chandra Das



Ref: 20/MATL/FA/14

Dated: 19-11-2020

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

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

Ref: Your request letter

Dear Sir,

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

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

Sino	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.

Amit Panda
Head-Commercial

UTKAL ALUMINA INTERNATIONAL LIMITED
Plant Off.: Doraguda, Po: Kucheipadar, Dist.: Rayagada- 766015, Odisha, India
Regd. Office: J-6, Jaydev Vihar, Bhubaneswar - 751013, Odisha, India

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Ph.: 0674 2360381/540, Fax: 0674 2360321

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



Ref: 21/MATL/FA/04

Dated: 04-08-2020

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.

Sino	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

UTKAL ALUMINA INTERNATIONAL LIMITED

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

CIN No.: U13203OR1993PLC003416
Ph: 06865287040 Fax: 06865287100
Ph.: 0574 2360581/540 Fax: 0574 2360321

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



Ref: 21/MATL/FA/09

Dated: 4-08-2020

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.

Sino	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

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Ph: 0674 2360581/540, Fax: 0674 2360321

Website: www.hindalco.com
Email: utkal_alumina@uailbirla.com



Ref: 21/MATL/FA/06

Dated: 04-08-2020

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.

Sino	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

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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Ph.: 0674 2360581/540, Fax: 0674 2360321

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

ADITYA BIRLA



Ref: 20/MATL/FA/07

Dated: 24-08-2020

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 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

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Ph.: 0674 2360581/540. Fax : 0674 2360321

Website: www.hindalco.com
Email: utkal_alumina@adityabirla.com



Ref: 20/MATL/FA/12

Dated: 01-09-2020

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

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

Ref: Your request letter

Dear Sir,

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


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

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

- (b) You have to get prior permission from authorized person of stores dept. for getting the vehicle entry in our plant premises.
- (c) You have to get the documents verified at material gate from security such as vehicle registration, driver's license, fitness certificate etc that are related to vehicle (tipper) which will be engaged for lifting of fly ash
- (d) You will obtain tare weight of your vehicle while getting entry inside the plant premises and after loading obtain gross weight at our Weigh Bridge and keep a weight slip with you.
- (e) You have to ensure that the loaded truck/tipper is properly covered by tarpaulin to avoid spillage.
- (f) The weight slip so collected from the weigh bridge shall be submitted to the stores department for obtaining gate pass.
- (g) You have to submit the gate pass obtained from stores dept at main gate while going out of UAIL's premises.
- (h) You will ensure safety precaution for your men and vehicle and abide by traffic rule strictly.
- (i) This order shall remain valid for a period of 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.: U13203OR1993PLC003418
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Ph.: 0674 2360581/540, Fax: 0674 2360321

Website: www.hindalco.com
Email: utkal_alumina@adityabirla.com



Ref: 20/MATL/FA/14

Dated: 16-09-2020

M/s. 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 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.


Amit Panda
Head-Commercial

UTKAL ALUMINA INTERNATIONAL LIMITED

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

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Website: www.hindalco.com
Email: utkal_alumina@adityabirla.com



Ref: 21/MATL/FA/15

Dated: 12-01-2021

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

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

Ref: Your request letter

Dear Sir,

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

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

Sino	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.

Amit Panda
 Amit Panda
 Head-Commercial

12.1.21

*Sincer***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



Ref: 20/MATL/FA/17

Dated: 23-02-2021

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

814583991

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.

Amit Panda
Head-Commercial

UTKAL ALUMINA INTERNATIONAL LIMITED

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Hippocampus separator neck

ADITYA BIRLA



Ref: 20/MATL/FA/13

Dated: 16-09-2020

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.


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)	800
2	Transportation of Fly Ash	6 wheeler	9 (MT)	600

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

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

For Utkal Alumina International Ltd.


Amit Panda
Head-Commercial


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Ref: 21/MATL/FA/14

Dated: 12-01-2021

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

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

Ref: Your request letter

Dear Sir,

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

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges 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.

Amit Panda

Head-Commercial

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Ref: 20/MATL/FA/18

Dated: 23-02-2021

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

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

Ref: Your request letter

Dear Sir,

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

- (a) Fly ash will be issued to you from our power plant on free of cost basis, However the Transportation charges 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.

Amit Panda
Head-Commercial

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