

**Name of the Project: - U.P. Asbestos Ltd. Mohanlalganj, Lucknow.**

**Clearance Letter No.:-** MoEF Environment clearance No. J11011 / 567 / 2011 IA - II dated 12.06.2015

**Period of Compliance Report: -** 6 Monthly compliance reports for the period October-2022 to March-2023 as lay down.

Dear Sir,

In compliance with the condition of the above referred environmental clearance stipulated for our unit at Mohanlalganj, District Lucknow for manufacturing of AC Sheet and Moulded goods. We submit below the 6 monthly compliance reports for the subject period.

**SPECIFIC CONDITION:-**

<b>Sl. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
1	The projects proponent shall adhere to the prescribed BIS standards and laws regarding use and handling of asbestos, safety of employees' etc. Raw materials like asbestos fibre and cement shall be transported in close containers. Asbestos fibre shall be brought in pelletized form in impermeable bags under compressed condition.	UPAL is presently adhering to and will in future adhere to the prescribed BIS standards and laws regarding the use and handling of asbestos, safety of employees, etc., as per the instructions and guidelines listed in BIS standards IS 11451-1986. IS 11767 1986, IS 11770 (part 1) 1987, IS 12078 – 1987, etc. A list of applicable BIS standards is already submitted. The raw materials are transported in closed containers. Asbestos is brought in impermeable bags under compressed conditions.
2	Only Chrysotile white asbestos fibre shall be used. Blue asbestos should not be utilized as raw material in the manufacturing process.	Our renewed commitment that Only Chrysotile Fibre(white Fibre) would be used as raw material in the manufacturing process was submitted vide our Letter No.:-UPAL/MoEF-IRO LKO/2021-22/720 Date 01-Nov-2021.
3	There shall be no manual handling/opening of asbestos fibre bags. The company shall install a fully automatic fibre debagging system.	UPAL has installed a fully automatic asbestos Fibre de-bagging machine with a bag shredder and is in operation. Each has a capacity of 60 bags per hour. These machines consist of a fabricated steel frame, a belt conveyor with a drive arrangement slitting cutter with a drive arrangement, outlet chute for Fibre feeding into the Fiber mill. After opening the empty bag automatically slides into the chute of the bag shredder through a closed system. The bag shredder is a heavy-duty grinder and is connected to the second outlet chute of the bag opening device where the empty Fibre bag is received, shredded into small particles, and fed to the Fibre Mill for reuse in the process along with Asbestos Fibre. Automatic Fibre bag opening machine was installed in the existing units.

4	Fugitive emission shall be controlled by bringing cement in closed tankers, fly ash in covered trucks and asbestos in impervious bags opening inside a closed mixer. Dust Collector shall be provided to fibre mill, bag opening device (BOD), cement and fly ash silos to control emissions. Bag filters followed by a wet washer shall be provided at the automatic bag opening machine, bag shredder, fibre mill and cement silo to collect the dust and recycle it in the process. Fugitive emissions granted from a hopper of the jaw crusher and pulverizer shall be channelized through the hood with the proper suction arrangement, bag filter and stack.	Cement & Fly ash is being brought in closed containers. Only imported Chrysotile fibre (White fibre) is being used and is received in impermeable HDPE bags. There is no possibility of fugitive emission during bringing of all raw materials for manufacturing of A.C. sheets. To Control fibre dust emission, an induced fan of 10 HP and a wet scrubber are installed in the automatic bag opening device, bag shredder and fibre mill. It has helped in keeping the workplace area of the fibre mill section dust free. Silos for both Cement & fly ash along with bag filters have been installed to control cement & fly ash dust emission. To control emission from the pulverizer, a bag filter is installed with the proper suction arrangement.
5	The company shall comply with total dust emission limit of 2 mg/ Nm <sup>3</sup> as notified under the Environment (Protection) Act 1986. Adequate measures shall be adopted to control the process emission and ensure that the stack emission of asbestos fibre shall not exceed the emission limit of 0.2 fibre/cc. Asbestos fibre in work zone environment shall be maintained with 0.1 fibre/cc.	Necessary control measures have already been taken to control process emission and ensure that the discharge of asbestos Fibre does not exceed the limits laid down. An air pollution control device achieves this. Tests are carried out on regular basis by MoEFCC and NABL approved Lab. Emissions are being found within prescribed limit. Last tests were conducted and reports were sent vide our Letter No.UPAL/FM/UPPCB/EMR/2023/27 dated 13-May-2023.
6	Bags containing asbestos fibre shall be stored in enclosed area to avoid fugitive emission of asbestos fibre from damaged bags (if any).	Chrysotile Asbestos Fibre being used is entirely imported and is received in impermeable HDPE bags and there is no possibility of fugitive emission in the Fibre godown.
7	<p>The proper housekeeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation system shall be laid in accordance with Factory Act. Better housekeeping practices shall be adopted for improvement of the environment within the work environment also. These include;</p> <p>(a) All monitoring transfer point shall be connected to dust extraction system.</p> <p>(b) Leakages or dust from machines and ducts shall be plugged.</p> <p>(c) Floor shall be cleaned by vacuum cleaner only.</p> <p>(d) Enclosed belt conveyer shall be used instead of manual transportation of asbestos within the premises.</p>	<p>A proper housekeeping facility with vacuum cleaning of the floor is provided in the plant area.</p> <p>Being Done.</p> <p>Already has been plugged.</p> <p>Vacuum Cleaners are being used.</p> <p>Belt conveyor is used for transportation of asbestos bags.</p>
8	Quarterly monitoring of pollutants (PM <sub>10</sub> , Asbestos fibre count) in work zone area and stack(s) shall be undertaken by the project proponents. In addition, the asbestos fibre count including the fugitive dust in work zone	Quarterly monitoring of total dust and fibre count in the work zone and stack carried out on regular basis by MoEFCC approved agency. Monitoring reports are being submitted regularly to the ministry's Regional Office, SPCB.

	area shall be monitored by an independent monitoring agency like NIOH/ITRC/NCB or any other approved agency on 6 monthly basis and report shall be submitted to the ministry's Regional Office, SPCB and CPCB.											
9	As reflected in the Environment Management Plan the treated effluent shall be recycled and reuse in the manufacturing process. No process water shall be discharge outside the premises and "zero discharge" shall be maintained. All the domestic waste water shall be treated in a septic tank followed by soak pit and used for green belt development.	<p>The entire process effluent is recycled into the process with the help of settling tanks which have been constructed for conservation and its reuse in process for the purpose. Three cone tanks are provided in each plant for the re-circulation of process water and slurry.</p> <p>The details of the water storage/ settling tank are as under:-</p> <p style="text-align: center;"><b>RECYCLING OF PROCESS EFFLUENT</b></p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;">Size of water tanks</th> <th style="text-align: left;">No of tanks</th> </tr> </thead> <tbody> <tr> <td>20m x 18m x 1.5 m</td> <td style="text-align: right;">01</td> </tr> <tr> <td>R 10m x 3m</td> <td style="text-align: right;">01</td> </tr> <tr> <td>R 6m x 2.7m</td> <td style="text-align: right;">01</td> </tr> <tr> <td>15' x4.5' x 7'</td> <td style="text-align: right;">02</td> </tr> </tbody> </table> <p>For the treatment of domestic waste septic tanks/soak pits are provided. On advice from the MOEF we sought advice from a private agency (Director Environment &amp; Tech. Research Centre Gorakhpur) on suggested improvements to the Settling tanks. After detailed examination, a conclusion was drawn that while they may be able to expedite the treatment of the effluent so that it is converted to dry sludge faster, our Settling tanks were also achieving the same. It is therefore; felt that no modification is necessary. As regards improvement in the disposal of domestic waste improved septic tank/treatment plants have been constructed.</p>	Size of water tanks	No of tanks	20m x 18m x 1.5 m	01	R 10m x 3m	01	R 6m x 2.7m	01	15' x4.5' x 7'	02
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10.	The company will ensure that the entire solid waste generated including process rejects, dust from bag filters and empty asbestos bag will be reused in the manufacturing process. There will be no solid waste disposal outside the plant premises. Asbestos fibre which cannot be further recycled due to contamination of iron dust shall be stored in HDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the BIS code.	Waste like dust from bag filters, process waste and shredded Fibre bags is wholly reused in the process. The company has also installed a 25" Pulveriser including 6" x 4" jaw crusher for the reuse of solid waste.										
11	The cut and damaged fibre bags shall be repaired immediately. Empty fibre bags will be shredded into fine particles in a bag shredder and recycled into the process. Pilling of A. C. sheets shall be done in wet condition only.	Cut and damaged fibre bags if any are found are immediately sealed with tape. Empty fibre bags are shredded and recycled in the process.										
12	The company shall obtain a certified from the supplier of chrysotile fibre that	A certificate from the supply of Chrysotile fibre has been obtained that this fibre does not contain any										

	it does not contain any toxic or trace metals. A copy of certificate shall be submitted to the MoEFCC.	toxic or trace metals and was submitted to MoEF vide our letter no. UPAL/MoEF-IRO LKO/2021-22/720 Date 01-Nov-2021
13	Regular Medical examination of the workers and health monitoring of all the employees shall be carried out and if cases of asbestosis are detected, necessary compensation shall be arranged under the existing laws. The proponent shall create in house facilities for spirometry test. A competent occupational health physician shall be appointed to carry out medical surveillance. Occupational health of all the worker shall be monitored for lung function test, spirometry test, chest x-ray, sputum for acid-fast-bacilli (AFC) and asbestos body (AB), urine for sugar and albumen, bloat test for TLC, DLC, ESR, Hb and record maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or cessation of employment whichever is later. Occupational Health Surveillance shall be carried out as per the directives of the Hon'ble Supreme Court including the recent Kalyaneswari case.	Medical examination of workers for Pulmonary function test (PFT) and respiratory diseases, x-ray sputum (AFB) and general medical checkup etc. is carried out on regular basis. All records are maintained. Xerox copies of these reports have been sent to your office. References vide our letter no.UPAL/FM/PFT/March/2023/28 dated 23-March-2023.  Towards medical and health care, the company has provided first aid facilities at the factory and a medical practitioner and pharmacist are employed.
14	To educate the workers, all the work place where asbestos dust may caused a hazard shall be clearly indicated as dust exposure area through the use of display sings which identifies the hazard and the associated health effects.	We have complied with the said condition and have provide display signs wherever required.
15	The company shall also undertake rain water harvesting measures and plan of action shall be submitted to the Ministry's Regional Office within three months.	Rain Water Harvesting System is installed.
16	All the commitments made to the public during the public Hearing/Public Consultation meeting held on 5 <sup>th</sup> October, 2012 shall be satisfactory implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry Regional office.	The commitments made at the time of pubic hearing have been implemented and the suggestions are being followed.
17	Green belt shall be developed in at least 33% of plant area as per the guidelines in consultation with the DFO. More focus shall be given towards the South East side of the plant layout	Our green belt is more than 33% of the plant area and same has been done in consultation with DFO.
18	At least 5 % of the total cost the project should be earmarked towards the Enterprises Social Commitment based on Public Hearing issue and item-wise	Enterprises social commitment based on public hearing are being implemented.

	details along with time bound action plan should be prepared and submitted to the Ministry Regional Office. Implementation of such programmer should be ensured accordingly in a time bound manner.	
19	The Company shall provided housing for construction labour with in the side with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of project.	The facilities mentioned are being provided/would be provided as and than required.

**GENERAL CONDITONS:-**

Sl.No.	Conditions	Compliance Status
1	The project authorities strictly adhere to the stipulations made by the Uttar Pradesh pollution Control Board and the State Government.	We have the applied Consent to Operate (Air & Water) for two years that is till 31 December 2024. The board has incorrectly mentioned the date 31 December 2023. We have applied for the correction of the validity period which is till 31 December 2024. Also have Hazardous Waste Authorization for the period till 06-May-2024.
2	No further expansion or modifications is the plant should be carried out without prior approval of the Ministry of Environment and Forests (MoEFCC).	We confirm that no expansion shall be carried out without prior approval of the MoEFCC.
3	At least four ambient air quality monitoring station should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regular submitted to this Ministry including its Regional office at Lucknow and SPCB/CPCB once in six month.	Monitoring data along with its interpretation of various pollution parameters is being regularly submitted with six monthly compliances to the government bodies as per directives. The last report was submitted vide letter no. UPAL/FM/UPPCB/EMR/2023/27 dated 13-May-2023.


4	Industrial Waste Water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	The entire process effluent is recycled into the process with the help of settling tanks which have been constructed for conservation and reuse in the process. No effluent is being discharged outside the factory premises (ZERO DISCHARGE).
5	The overall noise level in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hood, silencers, enclosure etc. on all source of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noise levels are checked on a regular basis and noise level is below the standard limit.
6	Occupational health surveillance of the workers shall be done on regular basis and record maintained as per The Factories Act.	Medical checkup of all workers are being done and record is maintained.
7	The Company shall develop rain water harvesting structure to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain Water harvesting system is installed.
8	The project proponent shall also comply with all the environmental protection measure and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development programmes, educational programmes, drinking water supply and health care supply.	All the environmental protection measures & safeguards recommended in the EIA/EMP are being complied with.
9	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the ministry of environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Lucknow. The fund so provided shall not	An elaborate fly ash dust control system along with silos have been installed to prevent fly ash from escaping to the ambient air at the fly ash feeding plant.  The recurring expenditure on maintenance and upkeep of the existing pollution control devices and management of the environment laboratory is approx Rs. 5 lakhs per annum.

	be diverted for any other purpose.	
10	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilaparishad/Municipal Corporation, Urban Local Body and Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Copy of Environment Clearance letter has sent to concerned.
11	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including the result of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional office of the MoEFCC at Lucknow. The representative Zonal Officer of CPCB and SPCB the criteria pollutants levels namely; PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> (ambient levels as well as stack emission) or critical sectorial parameters, indicated for the projects shall be monitored and displayed at the convenient location near the main gate of the company in the public domain.	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> data as well as stack emission data are displayed on the main gate of the factory. Environmental Monitoring reports are being sent to the Regional office of MoEFCC at Lucknow and SPCB regularly. Also the requisite information is being uploaded and updated periodically.
12	The project proponent shall also submit six monthly reports on the status of the stipulated environments conditions including result of monitored data (Both in hard copies as well as by e-mail) to the regional office of the MoEFCC, respective Zonal officer CPCB and SPCB. The regional office of this ministry at Lucknow/CPCB/SPCB shall monitor the stipulated conditions	Six monthly reports are being submitted to the Regional Office of the MoEFCC, and U.P. Pollution Control Board regularly. Monitored data along with its interpretation of various pollution parameters is being regularly submitted to government bodies as per directives.
13	The environment statement for each financial year ending 31 <sup>st</sup> March in form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Environmental Conditions and shall also be sent to the respective Regional Office of the MoEFCC at Lucknow by email.	The environment statement for each financial year ending 31 <sup>st</sup> March in Form- V is being submitted to State Pollution Control Board. The environmental Statement for the period 2021-2022 was submitted vide our letter no. UPAL/FM/Env.Statement/2021-2022/942 dated 30-June-2022 to U. P. Pollution control Board And Regional Office of the MoEFCC at Lucknow.

14	The Project Proponent shall inform the public that project has been accorded environmental clearance by the Ministry and copy of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment, Forest and Climate Change (MoEFCC) at <a href="http://envfor.in">http://envfor.in</a> . this shall be advertised within seven days from the date of issue of the clearance letter, at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at luck now.	The advertisement was issued in the leading local newspaper on 03 July 2015 (The Times of India, Lucknow) informing the public that the concerned project has been accorded environment clearance by the Ministry. Published copies submitted vide our letter no. UPAL/GM/MoEFCC/July/2015 dated 06.07.2015.
15	Project Authorities shall inform the Regional Office as well as the Ministry , The date of financial closure and final approval of the project by concerned authorities and the date of commencing the land development work.	Please see our letter no. UPAL/GM/MoEFCC/June/2016 dated 25.06.2016.

Thanking you.


Yours sincerely  
For U.P. Asbestos Ltd.

  
(A. K. Dwivedi)  
Factory Manager

Enclosed: As stated above

CC:-

1. The Chief Environment Engineer (Cir-5)  
U.P. Pollution Control Board  
H.No. TC-12V, Vibhuti Khand, Gomti Nagar,  
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2. Regional officer  
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(A. K. Dwivedi)  
Factory Manager