

**F. No. J-11011/344/2008-IA.II (I)**  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

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Dated: 14<sup>th</sup> June, 2017

To

**M/s Kuantum Papers Limited,**  
**Saila Khurd Village – 144 529,**  
**Tehsil Garhshanker,**  
**District Hoshiarpur, Punjab**  
Email: narendersharma@kquantumpapers.com

Fax: 01888-230241

**Subject: Upgradation & Modernization in Agro Pulping capacity 165 TPD Bleached Pulp paper and Expansion in Hard wood pulping Capacity (from 60 to 200 TPD Bleached pulp) conventional Chemical Recovery Plant (from 230 to 580 TPD of Black Liquor Solids) & Co-Generation Plant (from 17.5 to 28 MW) at village Saila Khurd, Tehsil Garhshanker, District Hoshiarpur, Punjab by M/s Kuantum Papers Limited - Environmental Clearance under EIA Notification, 2006 regarding**

Sir,

This has reference to your online application vide proposal no. IA/PB/IND/24304/2014, dated 27.03.2017 along with copies of EIA/EMP report seeking environmental clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The ToRs to the project were prescribed by the Ministry vide letter number J-11011/217/2016-IA.II(I) dated 03.12.2015. The proposed project activity is listed at Sl. No. 5(i) Pulp manufacturing and Pulp & Paper manufacturing industry under Category "A" EIA Notification 2006.

2.0 The proposal for Upgradation & Modernization in Agro pulping; expansion in hard wood pulping; conventional chemical recovery plant; and Co-Generation Plant at village saila khurd, Tehsil Garhshanker, District Hoshiarpur, Punjab of **M/s Kuantum Papers Limited** was initially received in the Ministry on 26.08.2014 for obtaining Terms of Reference (ToR) as per EIA Notification, 2006. The project was appraised by the Reconstituted Expert Appraisal Committee (Industry) [EAC (I)] during its 23<sup>rd</sup> meeting held during 18<sup>th</sup> – 19<sup>th</sup> September 2014 and prescribed ToRs to the project for undertaking detailed EIA study for obtaining environmental clearance. Accordingly, the Ministry of Environment, Forest and Climate Change had prescribed ToRs to the project dated 12<sup>th</sup> June 2015. Based on the ToRs prescribed to the project, the project proponent applied for environmental clearance to the Ministry online on 27<sup>th</sup> March 2017 along with EIA/MP report.

3.0 Kuantum Papers Limited (Earlier ABC Papers Limited) was established in 1980 at Village Saila Khurd, Tehsil Garhshankar, District Hoshiarpur (Punjab) to manufacture writing and printing grades of paper. It is spread in an area of 258 acres with existing paper manufacturing capacity of 148500 TPA or 450 TPD of writing and printing grades of paper. Presently, the company is operating at a capacity of 350 TPD using both wood and agro – residues due to negative cost implications of using imported/ purchased pulp for additional 100 TPD capacity. It was reported that the existing plant was accorded environmental clearance Vide F.No. J-11011/344/2008-IA.II(I) dated 01.01.2009. Consent to Establish Vide NoC No. ZJ/2009/LM/HSR/23/23719 dated 15.07.2009. Consent to Operate under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 Vide letter no. 6960 dated 29<sup>th</sup> August 2014 valid till 31<sup>st</sup> March 2019. Consent to Operate under Section 26 of Water (Prevention & Control of Pollution) vide letter no. 6962 dated 29<sup>th</sup> August 2014 valid till 31<sup>st</sup> March 2019.

4.0 Kuantum Papers Ltd. is now proposing expansion plan for up-gradation & modernization in project on writing and printing paper based on wood and agro-residues at Village Saila Khurd, Tehsil Garhshankar, District Hoshiarpur (Punjab). The overview of the existing, proposed and the total plant production capacities after the proposed expansion proposal for up-gradation & modernization are given below:

Sl. No.	Particulars	Existing Installed Capacity	Proposed expansion in Installed Capacity	Total Installed Capacity After Proposed Expansion
1.	Paper	450 TPD	Nil	450 TPD
2.	Agro-Pulp	165 TPD	Nil	165 TPD
3.	Hard Wood Pulp	60 TPD	140 TPD	200 TPD
4.	Pulper for Waste Paper/ Purchased Wood Pulp	20 m <sup>3</sup>	Nil	20 m <sup>3</sup>
5.	Conventional Chemical Recovery Plant	230 TPD Black Liquor Solids for Caustic Soda Recovery, FBR Soda Ash Recovery Plant with capacity of 100 TPD Black Liquor Solids, Lignin Precipitation System (LPS) Plant to recover 25 TPD Lignin	350 TPD Black Liquor Solids	580 T Black Liquor Solids per day, existing FBR Soda Recovery Plant will be kept as standby plant for planned and unplanned shuts of CRP. LPS plant will be operated based on market demand of Lignin
6.	Co-generation Power Plant	17.5 MW (10 + 5 + 1.5 + 1 = 17.5 MW)	12 MW	28 MW (Existing 1.5 MW Turbine will be abandoned)
7.	Effluent Treatment Plant	20000 m <sup>3</sup> /day	10000 m <sup>3</sup> /day	30000 m <sup>3</sup> /day

5.0 Addition of one more continuous digester to debottleneck the existing Continuous digester resulting after up-gradation due to change in pulping from soda process to sulphate process in the Agro Pulping Street; Addition of Oxygen Delignification (ODL) Stage and modifications in bleaching lines to make the material of construction suitable for partial substitution of elemental chlorine with chlorine dioxide to reduce elemental chlorine usage in agro pulping street. This street will ultimately be converted to ECF bleaching sequence. Modified bleaching sequence - XC/DEopHH followed by XDEopHH in two phases to phase out use of elemental chlorine. Installation of three Vertical digesters to enhance the bleached pulping capacity to 200 TPD and addition of ODL stage. Enhancement of washing and bleaching capacity to produce 200 TPD elemental chlorine free (ECF) wood pulp. The operation of 1.5 MW Turbine will be discontinued. With the installation of new 12 MW Turbine, the total Co-generation power capacity will be 28 MW. One power Boiler with capacity of 80 TPH will be added. One more Chemical Recovery plant with capacity of 350 TPD Black Solids will be installed. Existing Fluidized Bed Reactor, presently being operated to process 100 TPD Black Liquor solid will be discontinued and will be retained as Standby equipment. Existing 230 TPD capacity conventional CRP and proposed new 350 TPD capacity conventional chemical recovery plant will be operated after expansion to regenerate white liquor. Existing Recovery Boiler will be modified to make it suitable for black liquor generated from sulphate process Lignin Precipitation System (LPS) will be operated only to meet the market demand of lignin for specialized applications. The filtrate (Sodium Sulphate) of Lignin Precipitation System (LPS) will be used as make up chemical in Chemical Recovery plant.

6.0 The Status of compliance of earlier EC was obtained from Regional Office, Chandigarh vide F.No.5-169/2009-RO(NZ)/6113, dated 25.07.2014.

7.0 Total project area is 258 acres (104.4 ha); out of which 108.4 acres of land (about 42% of the total plant area) has already been developed under greenbelt / plantation. Additional 8 acres of land is currently under greenbelt development within the plant premises making it around 45% of the total plant area. Proposed upgradation/modernization and expansion will be done within the existing plant premises. Thus, no additional land is required for the same.

8.0 The topography of the project area is flat and reported to lie between 31° 17'57.11" N to 31° 18'53.33" N Latitude and 76° 04'08.40" E to 76° 04'56.28" E Longitude in Survey of India Topo Sheet Nos. 44M/15, 44M/16, 53A/3 & 53A/4. Interstate boundary of Punjab & Himachal Pradesh is at 8.5 km in NE direction).

9.0 No National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger / Elephant Reserve, Wildlife Corridor etc. exists within 10 km radius. The area also does not report to form corridor for Schedule-I fauna. It was reported that no schedule-I fauna in the study area.

10.0 Details regarding quantity of raw materials required, their source along with mode of transportation for proposed expansion for up-gradation & modernization is given below:

Sl. No.	Particulars	Existing	Proposed	Total after expansion	Source and Mode of Transportation
1.	Agro-residues	413 TPD	Nil	413 TPD	Wild Growth/Crop Waste, through Tractor trolleys/trucks
2.	Woody Raw Materials	134 TPD	366 TPD	500 TPD	Bamboo from HP, Wood (Eucalyptus & Poplar) from Farmers and contractors,

Sl. No.	Particulars	Existing	Proposed	Total after expansion	Source and Mode of Transportation
					Veneer scrap from Plywood industry. Transported through Trucks.
3.	Purchased Pulp	152 TPD (Required to operate at full capacity to produce 450 TPD Paper)	(- 90 TPD)	62 TPD	Mostly imported. Some indigenous quantities also purchased. Transported to mill in containers. (Acacia & Pinus species)
4.	Fillers	48 TPD	43 TPD	91 TPD	Onsite Manufacturing by utilizing flue gas from the boilers.
5.	Cooking Chemicals (Caustic & white Liquor)	75 TPD	55 TPA	130 TPD	Recovered in the CCRP. Make Up quantity purchased from Market
6.	Total Chlorine (Elemental & Hypochlorite)	14 TPD	--	9.2 TPD	Sourced from Caustic and Chlorine Manufacturers in Punjab. Transported in Trucks
	Elemental Chlorine	8.4 TPD	--	4.6 TPD (will be further reduced to Zero after implementation of Chlorine dioxide bleaching in agro street as well))	
	Hypochlorite	5.6 TPD		4.6 TPD (will be further reduced to Zero after implementation of Chlorine dioxide bleaching in agro street as well)	
7	ClO <sub>2</sub>	Nil	8 TPD	8 TPD	Onsite Generation
8	Oxygen	1.3 TPD	7.3 TPD	8.6 TPD	Presently purchased in tanker. Onsite Generation after expansion may also be added.

Sl. No.	Particulars	Existing	Proposed	Total after expansion	Source and Mode of Transportation
9	Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> )	3.2 TPD	1.8 TPD	5.0 TPD	Purchased in Tankers
10	Multi fuels (Rice Husk, Indian Coal, Pet Coke & Biogas)	475 TPD (217 TPD Husk + 258 TPD coal)	285 TPD Coal (including 15 to 20% Petcoke use as Auxiliary Fuel of total fuel)	760 TPD (217 TPD Husk + 543 TPD coal including 15 to 20% Petcoke use as Auxiliary Fuel)	Coal purchased from CCL & Open Market & Petcoke purchased nearby refinery. Husk purchased from rice shellers. Other bio-fuels from farmers viz Khudi, mustard husk etc. Inhouse generated raw material dust. Transport: Coal - Railways and trucks. & Pet Coke - Trucks. Husk- Trucks and Tractor trolleys.

11.0 The total water requirement for the plant will be 23500 m<sup>3</sup> /day, out of which existing water requirement is 21600 m<sup>3</sup> /day and rest 1900 m<sup>3</sup> /day of water will be required after up-gradation, modernization and expansion of the plant. Therefore, the quantity of fresh water consumption projected after implementation of the proposed plan is 50 m<sup>3</sup>/ton of paper against existing 60 m<sup>3</sup>/ton of paper. Permission for 40054 m<sup>3</sup> /day has already been obtained from CGWA vide letter no. 21- 4(240)/NWR/CGWA/2009-214 dated 14<sup>th</sup> July 2009 and renewal under process.

12.0 The existing power requirement for the plant is 15 MW which is met by Co-Generation Power plant of capacity 17.5 MW and additional requirement is 9.4 MW after proposed expansion, the power requirement will be around 24.4 MW which will be met by Co-Generation Power plant of total capacity of 28 MW. Besides, the mill has provision to get power from Punjab State Electricity Board and open access system as and when required.

13.0 Baseline Environmental Studies were conducted during post monsoon season i.e. from October to December 2014. Ambient air quality monitoring has been carried out at 8 locations and the data submitted indicated that mean PM<sub>10</sub> (57.8 to 89.4 µg/m<sup>3</sup>), mean PM<sub>2.5</sub> (28.1 to 43.3 µg/m<sup>3</sup>), mean SO<sub>2</sub> (5.9 to 12.3 µg/m<sup>3</sup>) and mean NO<sub>x</sub> (14.3 to 22.3 µg/m<sup>3</sup>). The results of the modelling study indicate that the maximum increase of GLC for the proposed project is 0.77 µg/m<sup>3</sup> with respect to the PM<sub>10</sub>, 6.21 µg/m<sup>3</sup> with respect to the SO<sub>2</sub> and 1.90 µg/m<sup>3</sup> with respect to the NO<sub>x</sub>.

14.0 The analysis results of soil show that soil is slightly to moderately alkaline in nature as pH ranges from 7.42 to 7.98. Organic Matter ranges from 0.72% to 1.12% in the soil samples. Nitrogen is found to be in better amount as it ranges from 210.03 kg/ha to 253.79 kg/ha and Phosphorous in less amount i.e. from 11.41 to 17.30 kg/ha, whereas the Potassium is found to be ranging from 210.02 to 374.7 kg/ha which is in better amount

15.0 The ground water analysis for all the 8 samples collected within the study area shows that pH varies from 7.05 to 7.95, Total Hardness varies from 261.12 to 550.80 mg/l, Total Dissolved Solids vary from to 358.0 to 688.0 mg/l, Calcium concentration varies from 62.14 to 119.37

mg/l, magnesium concentration varies from 25.78 to 40.65 mg/l and Chloride concentration varies from 11.40 to 115.91 mg/l.

16.0 Ambient noise levels were measured at 8 locations in and around the project site. Noise levels varies from 52.15 to 67.35 Leq dB(A) during day time and from 40.65 to 54.45 Leq dB(A) during night time.

17.0 580 T Black Liquor Solids per day will be treated in the conventional Chemical Recovery Process (CRP) Plant of capacity 350 TPD to recover energy (in the form of steam which will be reused in the Co-Generation Power Plant) and chemicals (Caustic soda and lime), which will be reused in the process itself.

18.0 Existing Effluent generation to ETP: Trade Effluent is 17000 KLD, Domestic Effluent is 114.0 KLD After capacity enhancement, Effluent generation to ETP: 18000 KLD, Domestic Effluent will go up to 500 m<sup>3</sup>/day. ETP sludge generation after proposed up-gradation, modernization and expansion will be 20 TPD. Mill has installed sludge thickening presses for dewatering of primary sludge. The secondary sludge is thickened in decanters. The treated effluent from Activated Sludge Process followed by Secondary Clarifier will be further subjected to suitable chemical treatment to further reduce colour and suspended solids. The chemically treated effluent will be further clarified in a tertiary clarifier before using it for plantation and irrigation.

19.0 The Public hearing of the project was held on 16<sup>th</sup> October, 2015 at Plant Site, Village Saila Khurd, Tehsil Garhshankar, District Hoshiarpur (Punjab) under the chairmanship of Shri Harbir Singh, Addl. Deputy Commissioner (Dev), Hoshiarpur for above-said expansion proposal under Punjab State Pollution Control Board. The point raised during public hearing was regarding extension of treated effluent distribution pipe line for irrigation so that more farmers can be benefitted. The company agreed to extend the pipeline to supply the additional treated waste water to be generated after proposed expansion. An amount of Rs. 175 lakhs have been kept for this purpose to be spent in next 5 years under the infrastructure scheme. Further, an amount of Rs. 842.5 lakhs (2.5% of total project cost i.e. 337.06 Crores) has been earmarked for Enterprise Social Commitment (agro/forestry, education, skill development and other social schemes).

20.0 The capital cost of the project is Rs. 337.06 Crores and the capital cost for environmental protection measures is proposed as Rs. 158 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 30 Crores.

21.0 Existing manpower requirement is 1950 persons (including 1403 Regular employees and 547 contractual employees); 300 additional manpower is required for the proposed expansion project; thus, the total manpower required after proposed expansion will be 2250 persons.

22.0 The proponent has mentioned that there is no litigation or court case pending against the project and/or no direction/order has been passed by any court of law against the project.

23.0 The proposal was placed on 18<sup>th</sup> meeting of Expert Appraisal Committee (Industry-I) held during 3<sup>rd</sup> - 5<sup>th</sup> May 2017. After detailed presentation by PP along with their EIA consultant J. M. Enviro Net Pvt. Ltd the committee noted that the production capacity of the plant remains same but the hardwood pulp is proposed to increase in place of imported pulp; the proponent has laid 13 km pipeline for supply of treated effluent for irrigation of about 2080 Ha; the specific

water consumption is proposed to reduce from 60 m<sup>3</sup>/T to 50 m<sup>3</sup>/T; proposed to use pet coke in the CPP; possibility of accumulation of halo organs in the irrigation area by the treated effluent; New CRP for recovery of caustic to handle black liquor from wood pulping street etc.

24.0 After detailed deliberations, the Committee recommended the for grant of Environmental Clearance subject to following specific conditions along with other environmental conditions while considering for accord of environmental clearance by the ministry.

25.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant environmental clearance for the proposed Upgradation & Modernization in Agro Pulping capacity 165 TPD Bleached Pulp paper and Expansion in Hard wood pulping Capacity (from 60 to 200 TPD Bleached pulp) conventional Chemical Recovery Plant (from 230 to 580 TPD of Black Liquor Solids) & Co-Generation Plant (from 17.5 to 28 MW) at village Saila Khurd, Tehsil Garhshanker, District Hoshiarpur, Punjab by M/s Kuantum Papers Limited under the provision of EIA Notification dated 14<sup>th</sup> September, 2006, as amended, subject to strict compliance of the following Specific and General conditions:

**A. SPECIFIC CONDITION:**

- i. The project proponent shall carryout analysis of AOX both in soil and water samples collected from the irrigated area periodically (once in six months) and the report of same shall be submitted to Regional office of MoEF&CC.
- ii. The project proponent shall undertake every year, bio-accumulation study on the soils of surrounding agricultural fields with a view to ascertaining the build-up of toxic chemicals in these fields
- iii. Pet coke shall not be used in the CPP.
- iv. The cost of the proposed 1 km length pipeline for discharge of additional treated effluent to surrounding formers shall not be part of proposed ESR funds.
- v. The PP shall develop green belt in 45% of total area of the plant as proposed. The additional 3% of the plantation area proposed as a part of expansion project shall be carried along the boundary of the project with local and broad-leaved species.
- vi. The PP shall adopt at least one village surrounding the project and shall prepare a comprehensive plan for development of solid waste management; education; health; skill development; Biogas generation from the composting; solar lighting; LED lighting etc. as a part of ESR.
- vii. The PP shall ensure the reduction in specific water and power consumption and increase in the recycling of the treated effluent to minimize the discharge.
- viii. Black Liquor shall be separately processed for recovery of energy and chemical in a Chemical Recovery Process.
- ix. In case of treatment process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be re-started until the control measures are rectified and achieve the desired efficiency.

- x. The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge and submit report to Ministry and its Regional Office.
- xi. Project proponent shall ensure that no black liquor spillage in the area of pulp mill, no use of elemental chlorine for bleaching in mill, installation of hypo preparation plant, no use of potcher washing and use of counter current or horizontal belt washers. The PP should ensure no spillage of foam in chemical recovery plant, no discharge of foul condensate generated from MEE directly to ETP in the Chemical recovery process.
- xii. The manufacturing process shall be with spray drying falling filter evaporation of black liquor and no black liquor in the effluent.
- xiii. The project authority shall install multi cyclones, wet scrubbers to the boilers to achieve the particulate emission below 50 mg/Nm<sup>3</sup>. The emissions from chemical recovery section shall be controlled through primary and secondary venturi scrubbers.
- xiv. In case of treatment process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- xv. The industry shall ensure the compliance of the standards for discharge of the treated effluent from the unit as stipulated under the EP Rules or SPCB whichever is more stringent. Adequate steps including use of modern RO/UF based technologies shall be used to increase recycling and reduce water consumption.
- xvi. Ground water quality study in and around the project area shall be conducted every 6 months and report submitted to Ministry's Regional Office, SPCB and CPCB.
- xvii. The project authority shall dispose of hazardous waste as per the provision of Hazardous Wastes and Other Waste (Management and Transboundary Movement) Rules, 2016.
- xviii. The company shall develop green belt in 33% of the total land as per the CPCB guidelines to mitigate the effect of fugitive emissions.
- xix. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xx. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- xxi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector shall be strictly implemented.
- xxii. All the commitments made to the public during the Public Hearing/Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office.
- xxiii. 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- xxiv. At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.
- xxv. The proponent shall prepare a detailed CSR Plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc.) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company. The plan so prepared shall be based on SMART (Specific, Measurable, Achievable, Relevant and Time bound) concept. The expenditure should be aimed at sustainable development and direct free distribution and temporary relief should not be included.
- xxvi. 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board and the State Government.
- ii. 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).
- iii. At least four ambient air quality monitoring stations 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 regularly submitted to this Ministry including its Regional Office at Chennai and the SPCB/CPCB once in six months.
- iv. Industrial wastewater shall be properly collected, treated 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 wastewater shall be utilized for plantation purpose.

- v. The overall noise levels in and around the plant area shall be kept well within the standards [85 dB(A)] by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. 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 (MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the concerned Regional Office of the Ministry. The funds so provided shall not be diverted for any other purpose.
- x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the 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 web site of the company by the proponent.
- xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the concerned Regional Office of the MoEF&CC. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chandigarh / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. The environmental 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 MoEF&CC by e-mail.

- xiv. The Project Proponent shall inform the public 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>. This shall be advertised 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 of the locality concerned and a copy of the same should be forwarded to the concerned Regional office.
- xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

26.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

27.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.


28.0 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.

29.0 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.

30.0 This EC supersedes the earlier EC granted vide F. No. J-11011/344/2008-IA.II(I) dated 01.01.2009.

31.0 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.

This issues with the approval of Competent Authority.

  
(Sharath Kumar Pallerla)  
Scientist 'F'/Director

**Copy to:-**

- 1). **The Secretary, Science, Technology and Environment Department**, Government of Punjab, Punjab Civil Secretariat, Chandigarh.
- 2). **The Conservator of Forests (C), Ministry of Environment & Forests**, Regional Office (NZ), Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh-160 030.

- 3). **The Chief Wildlife Warden, Govt. of Punjab**, Tower No. 2, II<sup>nd</sup> Floor, Forest Complex Sec-68, Mohali-160068.
- 4). **The Chairman, Central Pollution Control Board**, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
- 5). **The Member Secretary**, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- 6). **The Chairman, Punjab Pollution Control Board**, Vata Varan Bhawan, Nabha Road, Patiala, Punjab-147 001.
- 7). **The District Collector**, Hoshiarpur District, Punjab.
- 8). **Guard File//Record File/Monitoring File**
- 9). MoEF&CC website.

*Sharath*  
14/6/17

(Sharath Kumar Pallerla)  
Scientist 'F'/Director