

**Mill Expansion Cum
Augmentation Project
Compliance**

MEP Compliance Specific Conditions

S No	Description	Remarks
i.	The company shall comply with the conditions stipulated for the existing plant vide Ministry's letter no. J-11011/56/2001- IA.II (I) dated 12.12.2010.	Steps have already been taken to comply with all EC conditions.
ii.	A joint site inspection by a team of pulp & paper expert, RO, MoEF at Bangalore and APPCB official shall be carried out once a year till the satisfactory performance of the project after expansion.	One inspection has already been carried out.
iii.	The environmental wing shall be further strengthened w.r.t the qualified personnel, laboratory infrastructure etc. so as to minimize the dependency on external agencies for sample collection and analysis.	The unit has a full-fledged Environment department headed by General Manager supported by Manager, Officers and chemists of Central laboratory and technicians. Samples are collected and analysed in the laboratory located at ETP as well as at Central Lab.
		The laboratory further strengthened by installing ICP-OS. In addition, as directed by APPCB, services of external agencies approved by MoEF are engaged for independent sampling and analysis.

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iv	<p>The company shall install high volume, low concentration NCG collection & destruction system to mitigate all malodorous gases emitted and to submit compliance report to APPCB & Regional office of MoEF.</p>	<p>The odor control system is in operation since July,2008, capturing high concentration, low volume NCG from areas like super batch digesters & evaporators and incinerating in lime kilns.</p> <p>The activities for capturing and incinerating high volume, low concentration NCG system commissioning was completed and is in operation since Sept,2011.</p>
v	<p>The project authority shall install multi cyclone, wet scrubbers with the boilers to achieve the particulate emission below 50 mg/Nm³. The emissions from Fluidized Bed Reactor (FBR) in chemical recovery section shall be controlled through primary and secondary ventury scrubbers.</p>	<p>High efficiency ESP was installed in recovery boiler & being installed in coal fired boiler to achieve the emission levels as directed.</p>

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vi	<p>The company shall install dust collection system to reduce fugitive dust from all the units operations and vehicular movement. Efficiency of all the ESPs (Electrostatic Precipitator) to be regularly monitored, both in Chemical Recovery Boilers & Power Boilers and all parameters to be met as per CPCB norms (NOx, SOx, particulate matter etc as per MoEF notification dated Nov. 16, 2009).</p>	<p>Dust collection system will be installed to contain the dust emission & all the boilers are provided with ESPs, which are very effective and will be meeting to CPCB norms.</p> <p>Online SPM meters installed for all boiler stacks and data is being uploaded to APPCB Website.</p>
vii	<p>Data on ambient air, stack and fugitive emissions shall be regularly submitted online to Ministry's Regional office at Bangalore, APPCB and CPCB as well as hard copy once in six months and display data on RSPM, SO2 and NOx outside the plant premises at the appropriate place for the general public.</p>	<p>Unit installed online SPM meters to all boiler stacks and data is being uploading on hourly basis to APPCB Website.</p> <p>Unit installed online ambient stations(4 Nos.) along the boundary considering the wind rows/wind directions. Uploading of data to APPCB website is under progress.</p>
viii	<p>The proponent shall follow International Standards of safety for ClO2 generation and storage system, and ozone plant, and certification on regular basis may be submitted to APPCB & Regional office of MoEF. Provision for adequate safety for personnel in case of any accidental leakage to be put up in place, and the same shall be reported to APPCB & Regional office of MoEF.</p>	<p>Adequate safety systems have been installed in ClO2 preparation and Ozone generation and storage.</p> <p>Safe operating procedures are in place and operating crews have been trained to meet any eventuality.</p>

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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 restarted until the control measures are rectified to achieve the desired efficiency.	Being complied.
x	The water requirement shall not exceed 10,000 m ³ /day. No ground water shall be withdrawn. The industry shall ensure the compliance of the standards for discharge of the treated effluent from the unit as stipulated under the EPA rules or SPCB whichever is more stringent. The company shall make efforts to limit the consumption upto 75 m ³ /tonne of product. Mill should adopt modern RO/UF or any other compatible technology to reduce both water consumption and ultimate discharge to the river.	No ground water is used. Water requirement for the project (MEP) would be sourced from River Godavari and additional water consumption will not exceed 10,000 m ³ /day . The present water consumption is 50m ³ /tonne of product. After MEP, water consumption will be well below the stipulated condition.
xi	Continuous and regular monitoring of ETP performance and waste water discharged from all the process operations of the mill (for all the relevant pollution parameters), before and after expansion for a period – Present to 2 years after expansion is completed. The report to be submitted to Andhra Pradesh Pollution Control Board (APPCB) and Regional Office of Ministry of Environment and Forests (MoEF). The pollution parameters shall be certified by an accredited lab and must be within permissible standards laid down by State / Central Pollution Control Board (CPCB).	The characteristics of influent and effluent at different stages of ETP are monitored regularly by the well equipped lab established in the effluent treatment plant An accredited lab is engaged for periodic analysis of the performance & discharge quality parameters. The test results are shared on monthly basis with RO,APPCB,Kothagudem.

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xii	<p>Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board and regular monitoring shall be carried out for all relevant parameters to maintain the effluent treatment efficiency. The report shall be submitted to Ministry's Regional Office at Bangalore, APPCB and CPCB.</p>	<p>Regular monitoring of influent and effluent quality parameters being monitored at environmental lab stationed at ETP.</p> <p>The test results are submitted on monthly basis to RO, APPCB, Kothagudem and CPCB every six months.</p>
xiii	<p>Regular (Quarterly) monitoring of Ground water quality near the areas where effluent is used for irrigation as well as upstream and downstream water quality assessment of River Godavari where part of mill effluent is discharged.</p>	<p>A reputed external agency(M/s.NG Ranga University) is engaged for independent analysis of ground water & soil characteristics, where ever treated waste water is used for irrigation . Also upstream & down stream water quality is being assessed for existing facilities & the same will be continued after mill expansion . Presently the test results are shared on monthly basis with RO,APPCB,Kothagudem.</p>
xiv	<p>The company shall install Oxygen Delignification (ODL) plant and shall maintain AOX below 1 kg/tonne of paper production.</p>	<p>ODL is in operation since,2002-03 and the present AOX level is 0.0024 kg/Tonne of product.</p> <p>The analysis is carried out by Central Laboratory, APPCB,Hyderabad</p>
xv	<p>ECF technology shall be used and within 2 yrs lime kiln shall be installed to manage lime sludge.</p>	<p>ECF technology is in place since 2002 and Unit installed bleaching technology with a combination of ClO2 & Ozone in the year 2008-09 . Two lime kilns are in operation since 2002 & 2008 respectively.</p>
xvi	<p>The company shall submit the comprehensive water management plan along with monitoring plan for the ground water quality and the level, within three months from date of issue of this letter.</p>	<p>Agreed and unit engaged external expertise i.e M/s.Siemens to conduct study on comprehensive water management plan and the recommendation would be shared .</p> <p>Unit engaged external agency to monitor ground water quality & Soil characteristics on Half yearly basis.</p>

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xvii	The ash generated from the plant shall be disposed of in accordance with the provisions of the Fly Ash Notification, 2009.	100% ash generated is being used for brick making and construction activities
xix	The company shall develop green belt in 33% of the total land as per the CPCB guidelines and in consultation with DFO to mitigate the effect of fugitive emissions. The plantations for raw material shall not be considered as green belt.	Required Green belt & Green cover being developed continuously in consultation with DFO.
xx	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. Due importance to treatment of Musculo-skeletal disorders and other disorders such as backache, fatigue, body exhaustion & other MSD. Health effects due to work should be a part of managerial training.	Occupational health surveillance for all employees are being done regularly as per Factories Act. Records of the same are maintained in the OHC. Regular screening camps are conducted where experts from different disciplines are invited. Cases of backache and other musculoskeletal disorders are screened and treatment advised in such camps. Physiotherapist is called to demonstrate correct method of lifting weights and also exercises to relieve backache and other musculoskeletal disorders. Managerial training includes Stress management in which Lifestyle modification and Hazards in the work environment is explained
xxi	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling	Full fledged fire protection system i.e Fire hydrant system, Water sprinkling system, Fire extinguishers, Fire detectors and Fire alarms are in place supported by well trained & independent fire department to handle emergencies.

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xxii	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector shall be strictly implemented.	CREP recommendations are implemented.
xxiii	All the commitments made to the public during the Public Hearing / public consultation meeting held on 30th April, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bangalore.	Commitments made during the public hearing implemented / ongoing.
xxiv	At least 2% of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program shall be ensured accordingly in a time bound manner. The CSR shall include increase in the number of permanent employees, provision of better education & health facilities to locals, drinking water facilities, drainage system, development of roads, green belt development in the Sarapaka village etc. The existing dispensary catering the health needs of the workers shall be augmented with better health check up facilities etc. Similarly, the PHCs OF Nellipaka & Burgampahad shall be augmented with better health check up facilities etc. and M/s ITC should take responsibility of the sophisticated equipments by proper maintenance of them & training to the PHC employees.	Investment of Rs.2 crores is underway towards drinking water facility benefitting 20000 families to the nearby villages. Community hall construction is under progress in Sarapaka village. Proposal for drainage system under review for the near by villages. Unit is also investing on CSR Activities like conducting Medical camps in villages, Plantation programs , road & lighting development activities, women empowerment , Distribution of books & benches to near by schools etc.. Providing training to the OHC employees inside the factory premises and augmenting the PHCs facilities at Nellipaka and Burgampahad .

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xxv	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.	Provided.

MEP Compliance General Conditions

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i.	The project authorities must strictly adhere to the stipulations made by the A.P.Pollution Control Board and the State Government.	Directions of AP Pollution Control Board are complied with.
ii	No further expansion or modernization in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied with.
iii	One ambient air quality monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with UPPCB and report submitted to the APPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly.	Unit installed online SPM meters to all boiler stacks and data is being uploading on hourly basis to APPCB Website. Unit installed online ambient stations(4 Nos.) along the boundary considering the wind rows/wind directions. Uploading of data to APPCB website is under progress.

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iv	<p>In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handlings etc. shall be provided. Bag filters shall be provided at transfer points and dedusting stacks to control fugitive emissions. Water sprinkling, black topping of internal roads and green belt development shall be carried out to control the fugitive dust emissions due to vehicular movement. Dust suppression and extraction system shall be provided to control secondary fugitive emission during raw material handling and processing.</p>	<p>Adequate green belt developed in and around the mill to control the fugitive emissions and to prevent the spreading of these emissions. Dust collectors and water spraying system are installed to control fugitive emissions</p> <p>Dust extraction systems provided to new coal plants to control the fugitive emissions. Internal roads with black top are laid down and water sprinkling system is in place.</p>
v	<p>Proper house keeping and cleanliness must be maintained within and outside the plant</p>	<p>Being maintained.</p>
vi	<p>The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) 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 dBA (daytime) and 70 dBA (night time).</p>	<p>The equipments are provided with acoustic hoods, silencers to control noise. The ambient noise level is well below 75 dBA (day time) and 70 dBA (night time) as prescribed under EPA rule, 1989.</p>
viii	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report</p>	<p>All EMP measures are in place.</p>

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ix	The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bangalore / APPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.	Six monthly compliance report is being submitted to Ministry's Regional Office at Bangalore / APPCB / CPCB.
x	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. shall be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.	Provided.
xi	The project proponent shall have a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, education, establishment of health centres, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.	Unit investing on upliftment of in and around villages by way of providing better road facilities, distribution of notebook, school benches. Investment of Rs.2 crores is underway towards drinking water facility benefitting 20000 families to the nearby villages. Computer literacy programme is in place for development of unemployed youth. Provided local employment during the project stage.

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xii	A separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out various Environmental Management and Monitoring functions shall be set up under the control of Senior Executive.	<p>ITC has a full-fledged Environment department headed by General Manager supported by Manager, Officer and chemists of Central laboratory and technicians.</p> <p>This department is the nodal agency to co-ordinate and provide necessary services on environmental activities of the plant. This department interacts with MoEF, State and Central Pollution Control Board on Environment. Unit head of the mill oversees the total environmental activity</p>
xiii	The requisite amount shall be earmarked towards capital cost and recurring cost/annum for implementing environment pollution control measures respectively and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes	Capex spent on environment pollution control measures like installation & commission of ESP for Recovery boiler, Waste minimisation by providing CD Filter & Dreg filter, Waste transportation , Odour control system, Water & Energy saving schemes implementation etc.

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xiv	<p>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 Regional Office of the MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at convenient location near the main gate of the company in the public domain</p>	<p>Compliance on EC conditions including results of monitoring data will be uploaded in unit's web site and displayed at the main gate of the company</p>
xv	<p>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 respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore/CPCB/SPCB shall monitor the stipulated conditions</p>	<p>Six monthly compliance report is being submitted to Ministry's Regional Office at Bangalore / APPCB / CPCB</p>
xvi	<p>The environmental statement for each financial year ending 31st 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 Offices of the MoEF by e-mail.</p>	<p>Submitted Environmental Statement in Form-V to the State Pollution control Board authorities in the month of Sept'11 for the financial year 2010-11.</p>

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xvii	<p>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 the Website of the Ministry of Environment and Forests at http://envfor.nic.in. This should 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 shall be forwarded to the Regional office at Bangalore.</p>	<p>Complied. Press notification issued and copy submitted to MoEF, Regional office Bangalore vide our letter dt. 4th Apr'11</p>