

## Monitoring Report

### PART – I

#### DATA SHEET

No.		
1.	<b>Project type:</b> River Valley / Mining / Industry / Thermal / Nuclear / Others (specify)	: <b>Other (Synthetic Organic Chemicals)</b>
2.	<b>Name of the Project</b>	: <b>Proposed expansion project for manufacturing of chemical intermediates &amp; speciality chemicals by Multi Organics Pvt. Ltd., at Plot No. A-1, MIDC Industrial Area, Ghuggus Road, Padoli, Taluka &amp; District Chandrapur, Maharashtra 442 406</b>
3.	<b>Clearance letter (s) / OM No. and date</b>	: <b>SEIAA-EC-0000002097</b> dated February 5, 2020
4.	<b>Location</b>	
	a) District (s)	: <b>Chandrapur</b>
	b) State (s)	: Maharashtra
	c) Location latitude / longitude	: Latitude: and Longitude Latitude : 19°58'53.66" N Longitude : 79°13'57.54" E
5.	<b>Address for Correspondence</b>	:
	a) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)	<b>Mr. G.B. Jichkar Plot No. A-1, MIDC Industrial Area, Ghuggus Road, Padoli, Taluka &amp; District Chandrapur, Maharashtra 442 406.</b>
	b) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)	
6.	<b>Salient features</b>	:
	a) of the Project	: <b>The project is for manufacturing of chemical intermediates &amp; specialty chemicals wherein the details are as under:</b>  <b>a) Existing capacity : 23580 T/A</b> <b>b) Additional Proposed = 15240 T/A</b> <b>c) Total capacity : 38820 T/A</b>

	b) of the Environmental Management Plans		Environment Management Plan Includes the following : <ul style="list-style-type: none"> <li>➤ Air pollution control system includes : Stack, Multi cyclone and Bag filter</li> <li>➤ Water pollution control system includes : ETP, MEE, RO and STP</li> <li>➤ Noise pollution Control includes Acoustic enclosure and regular maintenance</li> <li>➤ Occupational Health includes Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment</li> <li>➤ Environmental Monitoring Budget including carbon and water footprint includes monitoring carbon footprint, water footprint and Environmental monitoring</li> <li>➤ Green belt includes maintenance of the same</li> <li>➤ Mitigation Measures for LCA includes installation of solar panels</li> <li>➤ Carbon Footprint Monitoring includes measures to reduce the carbon footprint.</li> <li>➤ Water Footprint Monitoring includes measures to reduce the water footprint.</li> </ul>
7.	<b>Break up of the Project Area</b>	:	Not applicable and forest area is not involved in the project. It is an industrial project located within notified MIDC. i.e., MIDC Ghuggus Road, Padoli.
	a) Submergence area: forest & non forest		
	<b>b) Others</b>		Enclosed as <b>Annexure - I</b>
8.	<b>Break up of the project affected population</b> with the enumeration of those losing Houses / Dwelling units only, Agricultural Land & Landless Laborers / Artisans:	:	Not applicable as no project affected population is there due to the fact that the project is located in the notified industrial area i.e., MIDC Ghuggus Road, Padoli.
	a) SC, ST / Adivasi		
	b) Others (please indicate whether these figures are based on any scientific and systematic	:	

	survey carried out or only provisional figures, if a survey is carried out give details & year of survey)		
<b>9 a)</b>	<b>Financial Details:</b> Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Total Project Cost Projected - 5885 lakhs Year of Price reference- 2021
b)	Allocation made for environmental management plans with item wise and year wise breakup	:	Total capital cost for environmental management plans : Rs. 148.52 lakhs  Total recurring cost for environmental management plans : Rs.108.893 lakhs  The detailed breakup of the environmental management cost is enclosed in <b>Annexure-II attached</b>
c)	Benefit cost ratio/Internal rate of Return and the year of assessment	:	Year of assessment : 2025  Internal Rate of return will be calculated only after realization of production due to expansion.
d)	Whether (c)includes the cost of environmental management as shown in the above	:	Yes
e)	Actual expenditure incurred on the project so far	:	Expenditure incurred on Project So far = 7.27 Cr
f)	Actual expenditure incurred on the environmental management plans so far	:	Expenditure incurred on Environment Management Plan upto September 2021 = 1.0192 Cr.
<b>10</b>	<b>Forest Land Requirement</b>		
a)	The status of approval for diversion of forest land for non-forestry use	:	Not applicable as the project is located in a notified Industrial area i.e., MIDC Ghuggus Road, Padoli.
b)	The status of clearing felling	:	Not applicable as the project is located in a notified Industrial area i.e., MIDC Ghuggus Road, Padoli.
c)	The status of compensatory afforestation, if any Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	Not applicable as the project is located in a notified Industrial area i.e., MIDC Ghuggus Road, Padoli.
<b>11</b>	<b>The status of clear felling</b> in non-forest areas (such as submergence area or	:	Not applicable as the project is located in a notified

	reservoir, approach roads.), if any with quantitative information required.		Industrial area i.e., MIDC Ghuggus Road, Padoli.
<b>12</b>	<b>Status of construction</b> (Actual&/or planned)		The construction is already completed. Photographs of the project site are attached as <b>Annexure-III</b> .
a)	Date of commencement (Actual&/or planned)	:	31/ 06/ 2020
b)	Date of completion (Actual&/or planned)	:	31/03/2025
<b>13</b>	<b>Reasons for the delay</b> if the project is yet to start	:	Not applicable as the project has already started.
<b>14</b>	<b>Dates of Site Visits</b>		
a)	The dates on which the project was monitored by the Regional Office on previous occasions, if any	:	Site visit of RO not done in period of Apr-2021 to Sep-2021.
b)	Date of site visits for this monitoring report	:	NA

**Point-wise compliance to the environmental clearance conditions given in the letter no. SEIAA-EC-000002097 dated February 5, 2020.**

Sr.No	EC condition	Compliance
<b>Specific conditions</b>		
I	PP to explore possibility to convert waste steam generated from pressure reducing valve into the energy.	Detail report on possibility to convert waste steam generated from pressure reducing valve into the energy is attached as <b>annexure – IV.</b>
II	PP to submit ash balance calculations along with MoU made with different agencies. PP also to submit undertaking for not disposing any waste ash outside the premises without permission from the competent Authority.	Ash balance calculations along with MoU made with different agencies Sample receipts of ash supplied and abstract of the ash sent from April 2021 to September 2021 are attached as <b>Annexure- V.</b>
III	At few places ambient air parameters PM10 & 2.5 are exceeding the limits including the proposed site. PP to carry out random air sampling in the study area to identify the potential particulate matter source till the project site and submit the findings.	The random air sampling was carried out at 3 locations for the month of September 2021. The ambient air quality monitoring was carried out at project site, Tadali village, Nagala village & wadgaon village. The ranges of some of the parameters are as under: PM10 : 31.91 (Nagala village) – 42.07 µg/m <sup>3</sup> (Project site) PM2.5 : 12.53 (Nagala village) – 18.77 µg/m <sup>3</sup> (Project site) SO <sub>2</sub> : < 8.5µg/m <sup>3</sup> (project site, Nagala village, wadgaon)– 12.35 (Tadali village) NO <sub>2</sub> : 2.53 (Tadali village) – 25.79 µg/m <sup>3</sup> (Wadgaon) The random air sampling done at above village & the results are found to be within NAAQS standard. During other season It was also found that the main source of PM10 & Pm 2.5 in the study area is due to the presence of coal mining & thermal power plant near Chandrapur & not due to the existing project activity. The result for air monitoring is attached as <b>Annexure-VI.</b>
IV	PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018	CER plan has been prepared as per the guidelines given in the MoEF&CC,OM No 22-65/2017-IA.III dated 01.05.2018 to implement CER plan in consultation with District Authority. Approved CER plan along with details & photographs of following activities are attached as <b>Annexure- VII.</b> CER plan will be implemented as per the approved letter from district collector. 1.Provision of Shed at Khutala ZP school -work under progress 2.Five number of toilets built at Datala village

		3. Rs. Fifty thousand donated for Improvement of Playground in Datala Village. 4. Rs. Fifty thousand donated for Improvement of Playground in Khutala Village.
V	PP to submit a bank guarantee of Rs. 153.75 lakhs to Maharashtra Pollution Control Board towards effective implementation of the EMP comprising remediation plan and Natural and Community Resource augmentation Plan.	We have submitted a bank guarantee of Rs. 153.75 lakhs to Maharashtra Pollution Control Board towards effective implementation of the EMP comprising remediation plan and Natural and Community Resource augmentation Plan. The Bank guarantee & remediation plan and Natural and Community Resource augmentation has attached as <b>Annexure -VIII</b>
VI	PP to submit CER as applicable as per MOEF & CC circular dated 1.5.2018 in consultation with Municipal Corporation.	CER plan has been prepared as per the guidelines given in the MoEF&CC,OM No 22-65/2017-IA.III dated 01.05.2018 to implement CER plan in consultation with District Authority. Approved CER plan along with details & photographs of following activities are attached as <b>Annexure- VII</b> . CER plan will be implemented as per the approved letter from district collector. 1.Provision of Shed at Khutala ZP school -work under progress 2.Five number of toilets built at Datala village 3. Rs. Fifty thousand donated for Improvement of Playground in Datala Village. 4. Rs. Fifty thousand donated for Improvement of Playground in Khutala Village.
VII.	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF& CC dated 9th August, 2018.	A separate compliance matrix of the conditions stipulated in the Office Memorandum issued by MoEF & CC dated 9 <sup>th</sup> August 2018 has been prepared and presented in the subsequent pages
<b>General conditions</b>		
I.	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP.	Effluent from industrial Processing (15 CMD), from washing (4 CMD), cooling tower & boiler (26 CMD) will be treated in ETP. Tertiary treated effluent (45 CMD) will be fed to RO. RO permeate (36 CMD) will be recycled and reused. RO reject (9 CMD) will be fed MEE & salts from MEE will be fed to sulphate recovery plant for further treatment & sodium sulphate recovery. Thus, unit will be Complete ZLD unit.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.	No additional land is being used / has been acquired for any activity. If required necessary permissions will be obtained for the same.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment	Various measures have been undertaken for the health and safety of the people working in the unit and also for protecting the environment such as establishment of the occupational health center, provision of the first aid box at various locations,

		<p>Checkup room provision of safety shower and eye washer provided at various locations. The photographs of the same are enclosed as <b>Annexure-IX</b>.</p> <p>Also various PPEs such as safety goggles, splash protection goggles, face shield, airline respirator among others are provided to the personnel working in the premises of the factory. The List of Personal Protective Equipment's &amp; Location is enclosed as <b>Annexure- X</b></p>
IV	Proper Housekeeping programmers shall be implemented	Proper housekeeping programs are being implemented.
V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.	In the event of the failure of any pollution control system adopted by the unit, the unit will certainly be immediately put out of operation and will not be restarted until the desired efficiency has been achieved
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).	Adequate stack heights have been provided to the D.G sets for example a stack height of 9 m & 6.5 m has been provided for the 320 KVA & 100 KVA D.G set.
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water	The rainwater is harvesting details from purchasing system to completion along with photographs are attached. As <b>Annexure - XI</b> .
VIII	Arrangement shall be made that effluent and storm water does not get mixed.	The separate effluent line and storm water drains have been provided. Photographs of the same are attached as <b>Annexure- XXXV</b>
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Bore wells are not allowed as the plot is in MIDC.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	<p>The ambient noise levels were monitored at 4 locations mainly Near main Gate, Near Boiler Area, Near ETP area &amp; Near storage area and the same ranged between 66.7 dB (A) (Near main gate) to 73.5 (Near storage area) during the day time and 59.8 dB(A) (Near main gate) to 69.1 (Near ETP area&amp; near boiler area) during the night time were &amp; found to be within the stipulated limit for the industrial area ( 75 dB(A) ) as promulgated by CPCB.</p> <p>personal protective equipment like earplugs etc. has been already provided to people working in the high noise area.</p> <p>The noise monitoring reports are enclosed as <b>Annexure-XII</b></p>

XI	<p>The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.</p>	<p>The ambient noise levels were monitored at 4 locations mainly Near main Gate, Near Boiler Area, Near ETP area &amp; Near storage area and the same ranged between 66.7 dB (A) (Near main gate) to 73.5 (Near storage area) during the day time and 59.8 dB(A) (Near main gate) to 69.1 (Near ETP area&amp; near boiler area) during the night time were &amp; found to be within the stipulated limit for the industrial area ( 75 dB(A) ) as promulgated by CPCB. Personal protective equipment like earplugs etc. has been already provided to people working in the high noise area.</p> <p>The noise monitoring reports are enclosed as <b>Annexure-XII</b></p>
XII	<p>Green belt shall be developed &amp; maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.</p>	<p>Development of 33% of green inside the plot is in process. Existing green belt Photographs are attached as <b>Annexure- XIII</b></p>
XIII	<p>Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning</p>	<p>Separate SOP is available of Accident/ Incident control.  Onsite emergency plan is available.  All safety installation at place available.  Equipment testing done as per factory act.  Safety Training given to all concerns.  Adequate firefighting system provided.  OHC is available with well-equipped ambulance.  Conduct safety audits as per requirement.  Following Factory act rules &amp; regulations.</p> <p>Also adequate provisions have been undertaken to limit the risk zone within the plant boundary for countering fire hazards during the manufacturing process in material handling such as fire hydrant, fire hose, foam mobile unit etc. A total of 45 no.s of fire extinguishers have been kept in the factory to counter the fire hazard among other measures. The details are enclosed as <b>Annexure – XIV</b>  Portable type flammable gas detector also available at site.</p>
XIV	<p>Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.</p>	<p>Various measures have been undertaken for the health and safety of the people working in the unit and also for protecting the environment such as establishment of the occupational health center, provision of the first aid box at various locations, Checkup room provision of safety shower and eye washer provided at various locations. The photographs of the same are enclosed as <b>Annexure-</b></p>



		<b>IX.</b>
XV	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Adequate provisions have been undertaken to limit the risk zone within the plant boundary for countering fire hazards during the manufacturing process in material handling such as fire hydrant, fire hose, foam mobile unit etc. A total of 45 no.s of fire extinguishers have been kept in the factory to counter the fire hazard among other measures. The details are enclosed as <b>Annexure – XIV</b>
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.	Annual returns in Form- 4 as required is regularly submitted to MPCB. Consent to Establish (Annexure II) obtained which includes HW management conditions. The same is enclosed as <b>Annexure - XV</b>
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	The mock drills are conducted quarterly Regular mock drills are being conducted for the onsite emergency management plan. A sample mock drill report has been enclosed as <b>Annexure - XVI</b>
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate environmental management cell has been established and the organogram for the same is enclosed as <b>Annexure- XVII</b>
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department	Total environmental budget is 1.48 cr. 1.0192 Cr being utilized for installation Air Pollution Control Equipment -Bag Filter and STP
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>	The advertisement related to the accordance of the environmental clearance was published in two newspapers viz., Lokmat on 8 <sup>th</sup> February 2020 and in The Hitvada on 8 <sup>th</sup> February 2020. The aforesaid advertisements are enclosed as <b>Annexure- XVIII</b>
XXI	Project management should submit half yearly compliance reports in respect of the stipulated	This is the Third six monthly compliance report which is being submitted.

	prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.	
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation 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 website of the Company by the proponent.	No representation from the concerned Municipal Corporation and the local NGO was received.
XXIII	The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	This is the third EC compliance being submitted. We will shortly upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. The first & second six monthly compliances are already submitted to Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. Acknowledgment copy of the same is attached as <b>Annexure - XXXVI</b>  The criteria pollutant levels are being displayed at convenient location and the photographs of the same are enclosed as <b>Annexure - XIX</b>
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC 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.	This is the third six monthly compliance report which is being submitted for the period April 2021 to September 2021.
XXV	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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	The Form-V for the financial year ending 31 <sup>st</sup> March 2021 which was submitted online on 30-09-2021 & enclosed as <b>Annexure- XX</b> It will be uploaded on website of the company along with the status of compliance of EC conditions.
4	<b>The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of</b>	Noted for information

	<b>the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.</b>	
5	<b>In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.</b>	Noted and agreed
6	<b>The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.</b>	Noted and agreed
7	<b>Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&amp;CC Notification dated 29th April, 2015.</b>	Noted and agreed
8	<b>In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any</b>	Noted and agreed
9	<b>The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.</b>	Noted and agreed.
10	<b>Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune),New</b>	Noted and agreed

	<b>Administrative Building, 1stFloor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</b>	
--	--	--

**Point wise compliance of the standard EC compliance conditions stipulated for the synthetic organic conditions vide MoEF & CC's Office Memorandum dated 9<sup>th</sup> August 2018**

<b>I</b>	<b>Statutory compliance</b>	<b>Compliance</b>
<b>i)</b>	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	<b>Not applicable as not forest land involved in the project site</b>
<b>ii)</b>	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	<b>Not applicable</b>
<b>iii)</b>	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-1 species in the study area)	<b>Not applicable as no schedule -1 species were reported in the study area.</b>
<b>iv)</b>	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee	We have obtained the Consent to Establish vide MPCB document no. Format 1.0/ CAC/UAN No. 000087017/CE-2005000680 and valid till the commissioning of the plant or upto 5 years whichever is earlier. The CTE is enclosed as <b>Annexure- XXI</b>
<b>v)</b>	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Multi organics Pvt. Ltd Industries Ltd has taken membership of the CHWTSDF being operated by Maharashtra Enviro Power Ltd and valid till 12.03.2023. The same is enclosed as <b>Annexure - XXII</b>
<b>vi)</b>	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	<b>We are strictly complying with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All the transportation of the Hazardous Chemicals is as per the Motor Vehicle Act (MVA), 1989</b>
<b>II</b>	<b>Air quality monitoring and preservation</b>	
<b>i)</b>	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and	We have installed 24x7 continuous emission monitoring system at boiler and thermic fluid stacks and is connected to SPCB and CPCB online servers. The photographs and sample

	calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	report of the same are enclosed as <b>Annexure- XXIII.</b>
ii)	<b>The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986</b>	Fugitive emissions monitoring has been carried out. The results of emission near Fusion plot 2 <sup>nd</sup> floor are given below :  Benzene (ppm)- Not detected Toluene (ppm) – Not detected Xylene (ppm) – Not detected HCL – 4.55 ppm Ammonia – 0.004 mg/Nm <sup>3</sup> The detailed analysis reports of the stack fugitive emissions are enclosed as <b>Annexure- XXIV</b>
iii)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. P <sub>M10</sub> and P <sub>M2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> 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.	The random air sampling was carried out at 3 locations for the month of September 2021. The ambient air quality monitoring was carried out at project site, Tadali village, Nagala village & Wadgaon village. The ranges of some of the parameters are as under: PM <sub>10</sub> : 31.91 (Nagala village) – 42.07 µg/m <sup>3</sup> (Project site) PM <sub>2.5</sub> : 12.53 (Nagala village) – 18.77 µg/m <sup>3</sup> (Project site) SO <sub>2</sub> : < 8.5µg/m <sup>3</sup> (project site, Nagala village, Wadgaon)– 12.35 (Tadali village) NO <sub>2</sub> : 2.53 (Tadali village) – 25.79 µg/m <sup>3</sup> (Wadgaon) The random air sampling done at above village & the results are found to be within NAAQS standard. During other season It was also found that the main source of PM <sub>10</sub> & P <sub>M2.5</sub> in the study area is due to the presence of coal mining & thermal power plant near Chandrapur & not due to the existing project activity. The result for air monitoring is attached as <b>Annexure- VI</b>
iv)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal	To control the fugitive emission we have provided multi cyclone followed by bag filter to the boiler & thermo pack. as the coal is the main fuel. Coal analysis report is attached as <b>Annexure</b>

	fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.,	- XXV
v)	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	The raw materials are being stored in the ware house & storage tanks. The photographs of the same are enclosed as <b>Annexure- XXVI</b>  <b>Coal is stored in coal Yard.</b>
vi)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed	<b>The National</b> Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time are being followed
vii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be complied with	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 are being complied with.
<b>III</b>	<b>Water quality monitoring and preservation</b>	
i)	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)	We have provided online continuous monitoring of system along with flow meters, pH, COD, BOD, TDS Meter in the channel /drain carrying effluent within the premises. The photographs of the same are enclosed as <b>Annexure- XXVII</b>
ii)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD). The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.	Effluent from industrial Processing (15 CMD), from washing (4 CMD), cooling tower & boiler (26 CMD) will be treated in ETP. Tertiary treated effluent (45 CMD) will be fed to RO. RO permeate (36 CMD) will be recycled and reused. RO reject (9 CMD) will be fed MEE & salts from MEE will be fed to sulphate recovery plant for further treatment & sodium sulphate recovery. Thus, unit will be Complete ZLD unit.
iii)	Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee.	The total fresh water requirement will not exceed the proposed quantity. The

	Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	water bills for the consumption from period April 2021 to September 2022 are enclosed as <b>Annexure- XXVIII</b>
<b>iv</b>	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	There is no mixing of the process effluent with storm water. Separate drains and conveyance systems have been provided for the process effluent / waste water and the storm water. Photographs of the same are attached as <b>Annexure-XXXV</b>
<b>v)</b>	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant	The rainwater is harvesting planned for Stores building and Admin. Building with 1 No. 100 m <sup>3</sup> tank and 1 No of 10 m <sup>3</sup> tank. Process Flow Diagram of Rain Water harvesting plan is attached. As <b>Annexure - XI.</b>
<b>vi</b>	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	Adequate stack heights have been provided to the D.G sets for example a stack height of 9 m & 6.5 m has been provided for the 320 KVA & 100 KVA D.G set.
<b>IV</b>	<b>Noise monitoring and prevention</b>	
<b>i)</b>	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Acoustic enclosures for the D.G sets have been provided.
<b>ii)</b>	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation	The ambient noise levels were monitored at 4 locations mainly Near main Gate, Near Boiler Area, Near ETP area & Near storage area and the same ranged between 66.7 dB (A) (Near main gate) to 73.5 (Near storage area) during the day time and 59.8 dB(A) (Near main gate) to 69.1 (Near ETP area& near boiler area) during the night time were & found to be within the stipulated limit for the industrial area ( 75 dB(A) ) as promulgated by CPCB. Personal protective equipment like earplugs etc. has been already provided to people working in the high noise area.  The noise monitoring reports are enclosed as <b>Annexure-XII</b>
<b>iii</b>	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time	The ambient noise levels were monitored at 4 locations mainly Near main Gate, Near Boiler Area, Near ETP area & Near storage area and the same ranged between 66.7 dB (A) (Near main gate) to 73.5 (Near storage area) during



		<p>the day time and 59.8 dB(A) (Near main gate) to 69.1 (Near ETP area &amp; near boiler area) during the night time were &amp; found to be within the stipulated limit for the industrial area ( 75 dB(A) ) as promulgated by CPCB. Personal protective equipment like earplugs etc. has been already provided to people working in the high noise area.</p> <p>The noise monitoring reports are enclosed as <b>Annexure-XII</b></p>
<b>V.</b>	<b>Energy Conservation measures</b>	
i)	The energy sources for lighting purposes shall preferably be LED based	Plant lighting and street lights are provided with LED bulbs.
<b>VI</b>	<b>Waste management</b>	
i)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	The hazardous chemicals are currently being stored in tanks. The photographs of the tanks are enclosed as <b>Annexure-XXIX</b>
ii)	Process organic residue <b>and spent carbon, if any, shall</b> be sent to cement industries. <b>ETP</b> sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Multi organics Pvt. Ltd Industries Ltd has taken membership of the CHWTSDF being operated by Maharashtra Enviro Power Ltd and valid till 12.03.2023. The same is enclosed as <b>Annexure - XXII</b>
iii)	The company shall undertake waste minimization measures as below:-	
	Metering and control of quantities of active ingredients to minimize waste.	A write on the process improvements is enclosed as <b>Annexure- XXX</b>
	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	
	Use of automated filling to minimize spillage.	Seal proof pumps are provided to transfer liquid raw materials. From day tank to reactors are connected with piping for charging of liquid raw material, as safe & leak proof system.

	Use of Close Feed system into batch reactors.	It will be provided as per requirement of process
	Venting equipment through vapour recovery system	Primary and secondary condenser are provided to each recovery unit
	Use of high pressure hoses for equipment clearing to reduce wastewater generation	All reactor floor provided high pressure water gun for cleaning of reactors and equipment's. One inch dia water hoses are provided for this system.
<b>VII</b>	<b>Green Belt</b>	
i)	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department	Development of 33% of green inside the plot is in process. Existing green belt Photographs are attached as <b>Annexure-XIII</b>
<b>VIII</b>	<b>Safety, Public hearing and Human health issues</b>	
i)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	SOPs based on the recommendations of HAZOP and risk assessment report will be implemented in due course of time in the factory. The responsibility matrix of personnel with target dates for the implementation of the various recommendations of the HAZOP and risk assessment study is enclosed as <b>Annexure - XXXI</b>
	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms	Adequate provisions have been undertaken to limit the risk zone within the plant boundary for countering fire hazards during the manufacturing process in material handling such as fire hydrant, fire hose, foam mobile unit etc. A total of 45 nos of fire extinguishers have been kept in the factory to counter the fire hazard among other measures. The details are enclosed as <b>Annexure – XIV</b> Portable type flammable gas detector also available at site.
ii)	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Also various PPEs such as safety goggles, splash protection goggles, face shield ,air line respirator among others are provided to the personnel working in the premises of the factory. The PPE matrix regarding its use according to the

		situation / emergency is enclosed as <b>Annexure- XIV</b>
iii	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Routine medical examination is being conducted for all the employees on a regular basis. The health check up record of one of the employees as sample is enclosed as <b>Annexure-XXXII</b> Training is being imparted to all employees on safety and health aspects of chemicals handling. The training records are enclosed as <b>Annexure - XVI</b> Training to all employees on handling of chemicals is being imparted.
iv	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.	<b>Adequate provisions have been made for the construction labor within the site such as mobile toilets, safe drinking water etc. among other necessary arrangements.</b>
v)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	The various measures have been undertaken for the occupational health surveillance of the workers such as establishment of the occupational health center, provision of the first aid box at various locations, checkup room,. The photographs of the same are enclosed as <b>Annexure- IX</b>
vi	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places	Adequate parking space amounting to the total parking of 2151 sq.m has been provided which is 10.63 % of the total plot area. The parking plan is enclosed as <b>Annexure- XXXIII.</b>
<b>IX)</b>	<b>Corporate Environment Responsibility</b>	
i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.111 dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	CER plan has been prepared as per the guidelines given in the MoEF&CC,OM No 22-65/2017-IA.III dated 01.05.2018 to implement CER plan in consultation with District Authority. Approved CER plan along with details & photographs

		<p>of following activities are attached as <b>Annexure- VII</b>.  CER plan will be implemented as per the approved letter from district collector.</p> <ol style="list-style-type: none"> <li>1.Provision of Shed at Khutala ZP school -work under progress</li> <li>2.Five number of toilets built at Datala village</li> <li>3. Rs. Fifty thousand donated for Improvement of Playground in Datala Village.</li> <li>4. Rs. Fifty thousand donated for Improvement of Playground in Khutala Village.</li> </ol>
ii)	<p>The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&amp;CC as a part of six-monthly report</p>	<p>We have well laid down EHS policy and the same is enclosed as <b>Annexure XXXIV</b></p>
iii)	<p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who <b>will</b> directly to the head of the organization</p>	<p>The organogram of the Environmental Management Cell has been enclosed as <b>Annexure- XVII</b></p>
iv)	<p>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.</p>	<p>The organogram of the Environmental Management Cell has been enclosed as <b>Annexure- XVII</b>  Actual expenses report shall submit to board along with six monthly progress report.</p>

v)	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Environmental audit will be conducted annually and every three years environmental audit will be got conducted by third party.
X)	Miscellaneous	
i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	The advertisement related to the accordance of the environmental clearance was published in two newspapers viz., Lokmat on 8 <sup>th</sup> February 2020 and in The Hitvada on 8 <sup>th</sup> February 2020. The aforesaid advertisements are enclosed as <b>Annexure- XVIII.</b>
ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt	No representations were received from the concerned Municipal Corporation and the local NGO while processing the proposal. The clearance letter will be put on the website of the company.
iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	This is the third six monthly compliance being submitted. We will shortly upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on our website and update the same on half-yearly basis.
iv)	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (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.	The random air sampling was carried out at 3 locations for the month of September 2021. The ambient air quality monitoring was carried out at project site, Tadali village, Nagala village & wadgaon village. The ranges of some of the parameters are as under: PM10 : 31.91 (Nagala village) – 42.07 µg/m <sup>3</sup> (Project site) PM2.5 : 12.53 (Nagala village) – 18.77 µg/m <sup>3</sup> (Project site) SO2 : < 8.5µg/m <sup>3</sup> (project site, Nagala village, wadgaon)– 12.35 (Tadali village)

		<p>NO2 : 2.53 (Tadali village) – 25.79 µg/m3 (Wadgaon)</p> <p>The random air sampling done at above vilaage &amp; the results are found to be within NAAQS standard.</p> <p>During other season It was also found that the main source of PM10 &amp; Pm 2.5 in the study area is due to the presence of coal mining &amp; thermal power plant near chandrapur &amp; not due to the existing project activity. The result for air monitoring is attached as <b>Annexure-VI</b> &amp; It will be uploaded on company's website also.</p>
v)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	<b>Noted for compliance. We will</b> submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal in the near future as this is the third six monthly compliance report.
vi	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	<p>The Form-V for the financial year ending 31<sup>st</sup> March 2021 which was submitted online on 30/09/2021 is enclosed as <b>Annexure- XX</b></p> <p>Form –V copy is sent to HO for publishing on company web site.</p>
vi	The project proponent 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, commencing the land development work and start of production operation by the project.	<b>Noted and agreed.</b>
vi	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	<b>Noted and agreed.</b>
ix	The project proponent shall abide by <b>all the commitments</b> and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	<b>Noted and agreed. We will abide by all the commitments</b> and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during the presentation to the Expert Appraisal

		Committee.
x)	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).	<b>Noted and agreed.</b>
xi	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Noted and agreed</b>
xi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	<b>Noted and agreed</b>
xi	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	<b>Noted for information and agreed.</b>
xi	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	<b>Noted and agreed</b>
xv	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 and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	<b>Noted and agreed.</b>
xv	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.	<b>Noted for information.</b>

--	--	--



### List of Annexures

<b>Annexure No.</b>	<b>Title of Annexure</b>
1	Breakup of the project area
2	Break up of environmental management cost
3	Photographs of project site
4	Detail report on possibility to convert waste steam generated from pressure reducing valve into the energy
5	Ash balance calculations along with MoU made with different agencies
6	The result for air monitoring
7	Approved CER plan from District Collector & Implemented CER
8.	EMP comprising remediation plan and Natural and Community Resource augmentation Plan. & Bank guarantee
9.	Safety measures for the health and safety of the people working in the unit
10.	The PPE matrix regarding its use according to the situation / emergency
11.	Rainwater harvesting scheme
12.	The noise monitoring reports
13.	Green belt Photographs
14.	fire extinguishers details
15	Form -IV
16.	Mock drill report
17	environmental management cell
18	The advertisement related to the accordance of the environmental clearance
19	Photographs of criteria pollutant levels are being displayed at convenient location
20	Form-V
21	Consent to Establish
22	The hazardous waste membership certificate
23	continuous emission monitoring system at process stacks
24	The detailed analysis reports of the stack fugitive emissions
25	Coal analysis report
26	photographs of the raw material storage
27	Photographs of the online continuous monitoring of system with web- camera
28	Water bills for the consumption from period October 2020 to March 2021
29	Photographs of the hazardous chemicals tanks
30	writeup on the process improvements
31	HAZOP and Risk Assessment study
32	The health checkup record
33	Parking Photographs
34	EHS policy
35	Different Storm water & Effluent line
36	Acknowledgement of submission of 1 <sup>st</sup> & 2 <sup>nd</sup> EC compliance report