State Level Environment Impact Assessment Authority (SEIAA)
Andhra Pradesh
Government of India
Ministry of Environment Forests & Climate Change
A-3, Industrial Estate, Sanathnagar, Hyderabad- 500 018.

REGD.POST WITH ACK.DUE

Order No. SEIAA/ AP/VSP-178/2015- 1215 **Dt:02-09-2016.**

Sub: SEIAA, A.P. – 5 Lakh KLPA Capacity Paint & Resins / Water Based Polymers Manufacturing Plant of M/s. Asian Paints Limited at Plot No. 3 and UDL, Industrial Cluster-Pudi (V), Rambilli (M), Visakhapatnam District - Environmental Clearance - Issued - Reg.

I. This has reference to your EC application received on 28.07.2016, seeking Environmental Clearance to produce **Paint & Resins / Water Based Polymers** in the name of **M/s. Asian Paints Limited at Plot No. 3 and UDL, Industrial Cluster-Pudi (V), Rambilli (M), Visakhapatnam District.** The total area of the site is 113.5 Acres. The total cost of the project is Rs. 1,785 Crores. The product details are as follows:

Paints -5 Lakh Kl/Annum which includes Resins/water based Polymers
2 Lakhs Tons of Solid Resin (TSR)/annum

II. The proposal has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the application in its meetings held on 06.08.2016. The representatives of the Project Proponent and their consultant M/s.Kadam Environmental Consultants have attended the meeting and presented the EIA report of proposed project to manufacture Paints – 5 Lakh KL per annum which includes Resins /water based polymers -2 Lakhs Tons of Solid Resin (TSR) per annum. The committee recommended for **issue of Environmental Clearance by** stipulating certain specific conditions. The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on 20.08.2016 examined the proposal and the recommendations of SEAC and decided to issue Environmental Clearance to the project as recommended by SEAC. The SEIAA, A.P hereby **accords prior Environmental Clearance to the project** as mentioned at Para no. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following specific and general conditions:

A. Specific conditions:

I. The industry shall install appropriate pollution control systems to achieve Zero Liquid Discharge (ZLD) – ETP, MEE with VOC scrubbers, ATFD & RO Plant.

II. The treated effluents after duly meeting norms shall be utilized in the manufacturing process of plant for utilities purposes only and there shall not be any discharge into on land under any circumstances.

III. The project proponent has to take up the development of "Kondakarl Aya Lake" under CSR activities.

IV. The industry may explore the adoption of green technology in the Plant
V. Industry shall implement wild life conservation plan for Kondakarla Ava with special reference to species in Schedule –I.

B. Special Conditions:

a) General :

i. The industry shall achieve Zero Liquid Discharge (ZLD).
ii. The industry shall provide solvent recovery system.
iii. The industry shall provide hazardous waste container (drums) cleaning/washing system.
iv. The industry shall provide mass flow meter to measure quantity of stream consumed for MEE system.
v. The industry shall provide magnetic tamper proof flow meters to measure quantity of different streams of effluents generated and rooted through the treatment systems.
vi. The industry shall provide stream stripping system to handle volatile matter in the effluents.
vii. The industry shall send hazardous waste to the authorized cement industries/ TSDF/ authorized recyclers by proper manifesto system.
viii. The industry shall install dual chamber incinerator with appropriate pollution control systems in conformity with CPCB / MoEF&CC guidelines.
ix. The industry shall fulfill all commitments made during the public hearing held on 29.06.2016.

b) Air pollution:

I. Sources of flu gas emissions, details of stacks and air pollution control system are as follows:

Sl.No.	Source	Capacity	Fuel	Stack height	APCE	Emission norms
1.	Boilers (5Nos)	2 TPH each	HSD	30 mtrs each	Stack height as per CPCB norms	CPCB / MoEF&CC norms
2.	Boilers (4Nos)	4 TPH each	HSD	30 mtrs each	Stack height as per CPCB norms	CPCB / MoEF&CC norms
3.	Boiler	7 Kilo calories / hr	Bio mass briquettes	30 mtrs	Bag filters	SPM – 30 mg/Nm^3
4.	Incinerator	1 TPD	HSD	30 mtrs	Bag filters and scrubbers	CPCB / MoEF&CC norms
5.	DG sets (6 Nos)	2000 KVA each	HSD	30 mtrs each	Stack height as per CPCB norms	CPCB / MoEF&CC norms

6.	DG sets (2 Nos)	1000 KVA each	HSD	30 mtrs each	Stack height as per CPCB norms	CPCB / MoEF&CC norms
7.	DG sets (2 Nos)	500 KVA each	HSD	30 mtrs each	Stack height as per CPCB norms	CPCB / MoEF&CC norms

II	Details of process emissions, stack height and air pollution control systems are as follows:			
Sl.No.	**Source**	**Stack height**	**APCE**	**Emission norms**
1.	Process vents (5 Nos)	18 mtrs each	Scrubbers	CPCB / MoEF&CC norms
2.	Raw material storage silos vents (150 Nos)	32 mtrs	Bag filters	CPCB / MoEF&CC norms

III Necessary measures shall be taken to control odour as far as possible. Sub coolers for brine circulation shall be installed to reduce solvent evaporation losses into the atmosphere. All the solvent storage tanks shall be connected to vent condensers. Regular monitoring of the VOCs shall be carried out using sensors.

IV The solvents shall be recovered by installing solvent recovery facility. The recovered solvents shall be reused in the process or sold to recyclers authorized by APPCB. The volatile vapours generated during process shall be routed through condensers and the condensate shall be reused in the plant.

V The area of the greenbelt shall not be less than 33% of the total area of the site. Greenbelt with tall growing trees shall be developed along the boundary of the site.

VI Raw materials shall be transported in covered trucks. Raw materials shall be stored under sheds. All the belt conveyors shall be covered with G.I. sheets. Appropriate dust extraction cum collection system shall be provided for raw material handling and conveyor system. All the roads in the plant area shall be asphalted / concreted and water shall be sprinkled to suppress the dust.

VII Ambient air quality including ambient noise levels must not exceed the standards stipulated under Notification dt. 16.11.2009 issued by the MOEF&CC,GOI. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB. Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Chennai and the State Pollution Control Board/ Central Pollution Control Board once in six months.

b) Water Pollution:

i	The details of water consumption, wastewater generation, treatment and disposal are as follows:					
Sl. No	Purpose	Water consumption (KLD)	Wastewater generation	Treatment facilities	Disposal option	Discharge Standards
1	Raw Water Treatment Plant (Back washes)	10	10	Conventional ETP, RO, Stripper / MEE, ATFD	Recycled	Standards notified by MoEF&CC / APPCB
2	Process	830	--			
3	Boiler	32	5			
4	Cooling Tower	350	30			
5	Washings	80	75			
6	Domestic	80	60	STP	Reuse for fleshing, utilities etc.	Standards notified by MoEF&CC / APPCB
7	Gardening	215	--	--	--	--
	Total	1597	180			
ii	The proponent shall provide separate storm water drains and harvest the rainwater from the rooftops to recharge the ground water.					
iii	The industry shall provide dual plumbing system for utilization of treated domestic effluents					

c) Solid Waste :

1. The details of hazardous waste generation and disposal option are as follows:

Sl. No	Waste Description	Category	Sources of Generation	HW Generation	UoM	Disposal Method
1	Oil contaminated with wash water & sludge	3.1	All Tanks (other than water) bottom sludge	15	MT/Annum	Incineration- In house or at TSDF/ Co-processing

2	Sludge and filters contaminated with oil	3.3	Soil contaminated with any material (RM / Intermediate / Product) Vermiculite / adsorbent contaminated with any material (RM / Intermediate / Product) Engineering Consumables (such as oil-filters) contaminated with any material	15	MT/Annum	Incineration- In house or at TSDF/ Co-processing
3	Used / Spent Oil	5.1	Used / overflow Thermopack oil Spent lubricating oil /grease Used oil such as hydraulic testing oil, transformer oil	50	MT/Annum	Sale to authorizer recycler
4	Discarded Asbestos	15.2	Discarded Asbestos Sheets, Discarded Asbestos Panels, Used Asbestos Gaskets /cuttings	10	MT/Annum	Disposal at TSDF secured landfill
5	Contaminated aromatic, aliphatic or naphthenic solvents, may or may not be fit for reuse	20.1	Waste solvent	160	MT/Annum	Sale to authorized recyclers/ Incineration- In house or at TSDF/ Co-processing
6	Distillation Residues	20.3	Distillation Residue	80	MT/Annum	Incineration- In house or at TSDF/ Co-processing
7	Process Waste	21.1	Waste powder Test samples of RM, Non - Resin Intermediates and FGs Gelled paint / paint with excess bacterial growth / paint lumps) Scrapings of dried paint Spilled RM, Non - Resin Intermediates and FGs Paper / paper cups / PPEs contaminated with RM / Intermediate / FG SS / Heliflex / PVC / CI /Cement / HDPE / Rubber pipe contaminated with RM / Intermediate / FG	1000	MT/Annum	Sale to authorized recycler/ Incineration- In house or at TSDF/ Co-processing

8	Wastes / residues	23.1	Discarded Resin / emulsion / polymer Resin /emulsion / polymer test samples Scrapings of Resin /emulsion / polymer Gelled particles / flakes of resin / emulsion /polymer By product salts contaminated n with resin Spilled resin/ emulsion/ polymer material Oil-contaminated and water contaminated Resin from Dust Collector.	115	MT/Annum	Incineration- In house or at TSDF/ Co-processing/ Sale to authorized recycler
9	Wastes / residues such as filter aids	23.1	Used dicamol, Arbocel, celite , cuno / GAF filter, Filter Bags, Waste filter cloth, Sieve, Mesh	30	MT/Annum	Incineration- In house or at TSDF/ Co-processing
10	Chemical containing residue arising from decontamination	33.2	Leftover material from RM container (Barrel / Carbouy / Drum / Tote)	30	MT/Annum	Incineration- In house or at TSDF/ Co-processing
11	Discarded containers / barrels /liners contaminated with hazardous wastes / chemicals (Liners)	33.1	All containers for RM, Intermediates, Consumables(MS / HDPE)	10	MT/Annum	Incineration- In house or at TSDF/ Co-processing/ Secured Landfill at TSDF/ Sale to authorized recycler
12	Discarded containers / barrels /liners contaminated with hazardous wastes / chemicals (Packing material and sample containers)	33.1	All contaminated metal Packing Material containers including sample tins All contaminated plastic Packing Material containers	75	MT/Annum	Incineration- In house or at TSDF/ Co-processing/ Secured Landfill at TSDF/ Sale to authorized recyclers
13	Discarded containers / barrels /liners contaminated with hazardous wastes / chemicals (Barrels / Carboys / Drums / Totes/IBC's)	33.1	Contaminated Liners and bags (plastic / paper), except those of extenders	45000	Numbers/ annum	Sale to Authorized vendors

14	Flue gas cleaning residue	35.1	Soot / carbon black	10	MT/Annum	Incineration- In house or at TSDF/ Co-processing/ Secured Landfill at TSDF
15	Spent Ion Exchange Resin containing toxic metals	35.2	Resin beads	15	MT/Annum	Incineration- In house or at TSDF/ Co-processing/ Secured Landfill at TSDF
16	Chemical sludge from waste-water treatment (dry basis)	35.2	Gutter / drain sludge Effluent collection pit sludge Equalization tank / guard pond sludge Primary Treatment tank / Thickener Sludge Centrifuged sludge Chemical sludge from SDB Chemical salts from MEE	600	MT/Annum	Incineration- In house or at TSDF/ Co-processing
17	Oil and Grease skimming residue	35.4	Floating oil / solvent on trade effluent / sewage	20	MT/Annum	Incineration- In house or at TSDF/ Co-processing
18	Ash from incineration of hazardous waste	37.2	Inorganic ash	250	MT/Annum	Co-processing/ Secured Landfill at TSDF
19	Lead Acid Batteries	Class - A	Used /Waste lead acid batteries Used /Waste lead acid batteries (Excisable)	900	Numbers/ Annum	Sale back to supplier/Authorized recycler
20	Spent Carbon	36.2	Used carbon granules from common scrubbers	10	MT/Annum	Incineration- In house / Coprocessing

2. The details of non-hazardous waste generation and disposal option are as follows:

Sl.No	Non-Hazardous Waste Type	Non-Hazardous Waste Generation per Annum	Disposal options
1	Paper Waste	1600 MT	To authorized cement industries for co-incineration
2	Plastic Waste (excluding the RM containers)	500 MT	To authorized cement industries for co-incineration
3	Metal Waste (excluding the RM containers)	200 MT	Authorized recyclers

4	Plastic RM containers	53000 Nos.	Authorized recyclers
5	Metal RM containers	14100 Nos.	Authorized recyclers
6	Powder Waste	210 MT	To authorized cement industries for co-incineration
7	Wooden Waste	1950 MT	To authorized cement industries for co-incineration
8	Miscellaneous	240 MT	Co-processing / recyclers / TSDF

3. The industry shall comply with provision of Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016 and the manufacture, storage and import of Hazardous Chemical Rules 1989.

C. **General Conditions:**

i. **This order is valid for a period of 7 years.**

ii. "Consent for Establishment" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act before the start of any activity / construction work at site.

iii. Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as safe drinking water, fuel for cooking, mobile toilets, mobile STP, medical health care, crèche etc., The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.

iv. No change in the process technology and scope of working should be made without prior approval of the SEIAA, A.P. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, AP/ MOEF&CC, GoI, New Delhi, as applicable.

v. The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order in hard and soft copies to the SEIAA and MoEF&CC on 1st June and 1st December of each calendar year.

vi. Four ambient air quality-monitoring stations preferably online monitoring systems should be established in the core zone as well as in the buffer zone for RSPM, SPM, PM_{10}, $PM_{2.5}$, SO2, NOx, Ammonia, VOCs monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.

vii. Data on ambient air quality (RPM, SPM, PM_{10}, $PM_{2.5}$, SO_2, NOx, Ammonia, VOCs) should be regularly submitted to the Ministry including its Regional Office located at Chennai and the State Pollution Control Board/ Central Pollution Control Board once in six months.

viii. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.

ix. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

x. A separate environmental management cell with suitable qualified personnel and with exclusive budget should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

xi. The funds of earmarked for environmental protection measures (Capital Cost Rs.600 Lakhs and Recurring cost Rs.50 Lakhs/annum) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA, Ministry and its Regional Office located at Chennai.

xii. The Regional Office of MOEF&CC located at Chennai / APPCB 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.

xiii. The project proponent shall submit the copies of the environmental clearance 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.

xiv. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P. This order shall be displayed in the website of the project proponent.

xv. The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

xvi. Any appeal against this Environmental Clearance 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.

xvii. The company shall undertake eco-development measures including community welfare measures in the project area.

xviii The proponent shall obtain all other mandatory clearances from respective departments.

xix. Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

xx. The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

xxi. The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

Sd/-	Sd/	Sd/-
MEMBER SECRETARY,	**MEMBER,**	**CHAIRMAN,**
SEIAA, A.P.	**SEIAA, A.P.**	**SEIAA, A.P.**

To

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//T.C.F.B.O//

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