

**To**  
**The Environmental Engineer,**  
**AP Pollution Control Board,**  
**Regional office,**  
**Visakhapatnam.**

**Date: 01-08-2020**

**Sir,**

**Sub:** Submission of Six-Monthly Compliance report for M/s. Granules Omnichem Pvt. Ltd., Plot No. 121/P & 122, JNPC, Parawada, Visakhapatnam District.

**Ref:** 1) CFE & CFO Combined Order No. 297/APPCB/CFE/RO-VSP/HO/2012,  
Date: 30.11.2019.

With reference to the above, we M/s. Granules Omnichem Pvt. Ltd., Plot No. 121/P & 122, JNPC, Parawada, Visakhapatnam District here with submit six monthly compliance report for Consent For Establishment & Consent For Operation combined order obtained from AP Pollution Control Board respectively vide ref (1) cited above for the period of 01<sup>st</sup> January 2020 to 30<sup>th</sup> June 2020 as on July 2020 in online website pcb.gov.in.

Kindly acknowledge the same.

Thanks and Regards,  
**For M/s. Granules Omnichem Pvt. Ltd.,**



**Authorized Signatory**

**CC TO THE JOINT CHIEF ENVIRONMENTAL ENGINEER, APPCB, ZONAL OFFICE,  
VISAKHAPATNAM.**

**GRANULÉS OMNICHEM PRIVATE LIMITED**

**Registered Office :** H.No. 1-123/MH/201, 2nd Floor, 3rd Block, My Home Hub, Madhapur, Hyderabad 500 081, Telangana, India. ☎+ 91 40667 60000.

**Works:** Plot Nos. 121 (part) & 122, Ramky Pharma City (I) Ltd. SEZ, Parawada Mandal, Visakhapatnam - 531 019, Andhra Pradesh., India.

☎+91 08924-236293, 660300, E-mail: info@granulesomnichem.com, www.granulesomnichem.com

CIN No: U24233AP2011PTC076274

# SIX MONTHLY COMPLIANCE CONSENT FOR ESTABLISHMENT & OPERATION COMPLIANCE REPORT

**01<sup>st</sup> JANUARY 2020 TO 30<sup>th</sup> JUNE 2020**

For

“Industry”

Plot No. 121/P & 122,

JNPC, Parawada,

Visakhapatnam District.

**M/S. GRANULES OMNICHEM PVT. LTD.,**

Submitting to

The Environmental Engineer,

APPCB, Regional Office,

Visakhapatnam.

&

To the Joint Chief Environmental Engineer,

APPCB, Zonal Office,

Visakhapatnam

By

Prepared By

**SV ENVIRO LABS & CONSULTANTS**

Environmental Engineers & Consultants in Pollution Control

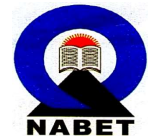
H.O: Enviro House, Block-B, B-1, IDA, Autonagar,

Visakhapatnam – 530 012

Ph: 0891-2755528, Tel/Fax: 0891-2755529,

E-mail: [svenviro\\_labs@yahoo.co.in](mailto:svenviro_labs@yahoo.co.in)

Recognized by MoF&F and NARI.



## INDEX

<b>S.NO</b>	<b>CONTENTS</b>
1	Covering Letter
2	Covering Page
3	(Consent for Establishment & Operation Order)
4	Annexure-1 Compliance of Consent for Establishment & Operation
5	Annexure-2 (Photographs)
6	Annexure-3 (Monitoring Reports)

**CONSENT FOR ESTABLISHMENT &  
OPERATION ORDER**



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
D. No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,  
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010  
Website: www.pcb.ap.gov.in

**CONSENT ORDER FOR ESTABLISHMENT & OPERATION**

**Order No. 297 /APPCB/CFE/RO-VSP/HO/2012**

**30/11/2019**

Sub:APPCB – CFE - **M/s. Granules Omnichem Pvt., Ltd., Plot No.121/P & 122, JNPC, Parawada, Visakhapatnam** – Consent for Establishment of the Board for **Change of Product Mix** under Sec. 25 of Water (P & C of P) Act, 1974 and Under Sec. 21 of Air (P&C of P) Act, 1981 - Issued - Reg.

- Ref:
1. CFE CPM order dt. 27.03.2019.
  2. Industry's application received through A.P. OCMMS on 14.10.2019.
  3. R.O's inspection report dt. 21.10.2019.
  4. CFE Committee meeting held on 25.10.2019.
  5. Industry's lr. dt. 25.10.2019.
  6. RO's mail dt.04.11.2019 reg remittance of balance CFE & CFO fee.

In the reference 2<sup>nd</sup> cited, an application was submitted to the Board seeking Consent for  
1. Establishment (CFE) for **Change of Product Mix** to produce the products with installed capacities as mentioned below, with an additional project cost of Rs. 5.0 Crores.

**As per CFE CPM order dt. 27.03.2019:**

S.No	Name of the Product	Quantity kg/day
	<b>API Products</b>	
1	Valsartan	33.33
2	Metformin HCl	550.00
	<b>Total Qty. of API's (A)</b>	<b>583.33*</b>
	<b>Drug Intermediates</b>	
3	N-Boc – L – Pyroglutamic Acid ethyl ester (PAC-2)	96.67
4	8-Benzyl-3-(3-isopropyl-5-methyl-4H-1,2,4-triazol-4-yl)-8-azabicyclo[3.2.1]octane (BTC-7)	33.33
5	Formyltosylamide (FTA-1)	100
6	(R)-7-(Benzyloxy)-N-(2,4-difluorobenzyl)-4-methyl-6,8-dioxo-3,4,6,8,12,12a-hexahydro-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide –(DTG- 3/DOL-5)	116.67
7	4-methoxy-1-(phenylsulfonyl)-2,3-dihydro-1H-pyrrolo[2,3-c] pyridine (BES 6)	40.00
8	7-bromo-4-methoxy-1H-pyrrolo[2,3-c]pyridine. Hydrochloride (BES-10)	33.33
9	2,3,4,6-Tetra-O-Pivaloyl- $\alpha$ -D-glucopyranosyl bromide (FBJ-2)*	
	2,3,4,6-Tetra-O-Pivaloyl- $\alpha$ -D-glucopyranosylbromide(GLU-2)*	166.67
10	Tert-butyl (2S,3R)-3-hydroxy-4-(isobutylamino)-1-phenylbutan-2-yl carbamate (BIN-1)	266.67

11	2-Piperidinecarboxylic acid, 5-[(phenylmethoxy)amino]-, phenylmethyl ester, (2S,5R)- (ethanedioate) (SAM-0)	39.00
12	Tetrabutylammonium [(2S,5R)-2-Carbamoyl-7-oxo-1,6-diazabicyclo[3.2.1]octan-6-yl] Sulfate(SAM-3)	33.33
13	(2R,5S)-((1R,2S,5R)-2-isopropyl-5-methylcyclohexyl) 5-(4-amino-2-oxopyrimidin-1(2H)-yl)-1,3-oxathiolane-2-carboxylate (LAM-5)	100.00
14	(2S)-2-(hydroxymethyl)-1,2-dihydro-3H,8H-2a,5,8a-triazaacenaphthylene-3,8-dione (GPA-807A)	31.67
15	(R)-2-((4-aminopiperidin-1-yl) methyl)-1,2-dihydro-3H,8H- 2a,5,8a-triazaacenaphthylene-3,8-dione hemihydrochloride (GPO-3)	50.00
16	Sodium(3,4-dihydro-2H-pyrano[2,3-c]pyridin-6-yl)(hydroxyl) methane sulfonate (GPO-4)	66.67
17	(7-bromo-4-methoxy-1H-pyrrolo [2,3-c]pyridin-3-yl)(oxo)acetic acid (BES-12)	33.33
18	3-chloro-4-[(3-fluorobenzyl) oxy]aniline (TEC-2)	83.33
	Total Qty. of Drug intermediates (B)	1290.67
	<b>Total Production Capacity (A+B)</b>	<b>1300.00*</b>

The industry shall manufacture any 6 products (both API & Drug Intermediate products) at any given point of time with a maximum production capacity of 1300 kg/day.

**By-Products:**

S.No	Name of the By-Product	From the product	Quantity (kg)
1	Sponge Palladium	DOL	1.63
2	Palladium Carbon	GPA-807A	8.23

**After Change of Product Mix: (As per Ir.dt.25.10.2019)**

S. No	Name of the Product	Quantity Kg/day	No of Stages	Starting Raw Material	Quantity kg/day
1	Valsartan	1.67	1	(s)-Methyl N-[(2-cyanobiphenyl-4-yl)methyl]-L-Valinate Hydrochloride (VSV)	27.78
2	Metformin HCl	333.33	1	Dimethylamino hydrochloride	192.26
3	N-Boc – L – Pyroglutamic Acid ethyl ester (PAC-2)	33.33	1	L-Glutamic acid	20.83
4	8-Benzyl-3-(3-isopropyl-5-methyl-4H-1,2,4-triazol-4-yl)-8-azabicyclo[3.2.1]octane (BTC-7)	50.00	2	2,5-dimethoxyTHF(DMTHF)	62.25
5	Formyltosylamide (FTA-1)	166.67	1	4-methyl benzene sulfonamide	146.66

6	4-methoxy-1-(phenylsulfonyl)-2,3-dihydro-1H-pyrrolo[2,3-c] pyridine (BES 6)	36.67	4	Formyltosylamide (FTA-1)	56.75
7	7-bromo-4-methoxy-1H-pyrrolo[2,3-c]pyridine. Hydrochloride (BES-10)	30.00	1	4-methoxy-1-(phenylsulfonyl)-2-3-dihydro-1H-pyrrolo[2,3-c] pyridine (BES-6)	46.19
8	2,3,4,6-Tetra-O-Pivaloyl- $\alpha$ -D-glucopyranosyl bromide (FBJ-2)**	233.33	1	D-Glucose	103.83
	2,3,4,6-Tetra-O-Pivaloyl- $\alpha$ -D-glucopyranosylbromide(GLU-2)**		1	D-Glucose	95.66
9	Tert-butyl (2S,3R)-3-hydroxy-4-(isobutylamino)-1-phenylbutan-2-yl carbamate (BIN-1)	166.67	1	S,S-BEP-3	156.66
10	2-Piperidinecarboxylic acid, 5-[(phenylmethoxy)amino]-, phenylmethyl ester, (2S,5R)- (ethanedioate) (SAM-0)	200.00	1	Benzyl boc glutamate	20.32
11	Tetrabutylammonium [(2S,5R)-2-Carbamoyl-7-oxo-1,6-diazabicyclo[3.2.1]octan-6-yl] Sulfate(SAM-3)	200.00	1	2-Piperidinecarboxylic acid, 5-[(phenylmethoxy) amino]-, phenylmethyl ester, (2S,5R)- (ethanedioate) (SAM-0)	41.45
12	(2R,5S)-((1R,2S,5R)-2-isopropyl-5-methylcyclohexyl) 5-(4-amino-2-oxopyrimidin-1(2H)-yl)-1,3-oxathiolane-2-carboxylate (LAM-5)	33.33	1	Menthylglyoxylate (MGH)	33.33
13	(2S)-2-(hydroxymethyl)-1,2-dihydro-3H,8H-2a,5,8a-triazaacenaphthylene -3,8-dione (GPA-807A)	37.27	4	2-Chloro-6-methoxy-3-nitropyridine	103.20
14	(R)-2-((4-aminopiperidin-1-yl) methyl)-1,2-dihydro-3H,8H- 2a,5,8a-triazaacenaphthylene-3,8-dione hemihydrochloride (GPO-3)	80.00	2	(2S)-2-(hydroxymethyl)-1,2-dihydro-3H,8H-2a,5,8a-triazaacenaphthylene-3,8-dione	59.00
15	Sodium(3,4-dihydro-2H-pyrano[2,3-c]pyridin-6-yl)(hydroxyl) methane sulfonate (GPO-4)	50.00	1	Methyl 3,4-dihydro-2H-pyrano[2,3-c]pyridine-6-carboxylate	51.64
16	(7-bromo-4-methoxy-1H-pyrrolo [2,3-c]pyridin-3-yl)(oxo)acetic acid (BES-12)	18.33	1	7-bromo-4-methoxy-1H-pyrrolo[2,3-c]pyridine Hydrochloride(BES-10)	18.51
17	Methyl 3,4-Dihydro-2H-Pyrano[2,3-C]Pyridine-6-Carboxylate (GPE)	15.33	2	Glycine	31.97
18	Quetiapine Lactam (SER-2)	11.67	2	2-Amino-diphenylsulfide	304.29

**\*The industry shall manufacture any 6 products including API & Drug Intermediates at point of time so that the maximum production shall not exceed 1300 kg /day.**

**\*\*Either FBJ-2 or GLU-2 will be manufactured at any given point of time**

**By-Products:**

S.No	Name of the By-Product	From the product	Quantity (kg)
1	Palladium Carbon	GPA-807A	2.75

2. As per the application, the above activity is to be located in the existing premises located at Plot No.121/P & 122, JNPC, Parawada, Visakhapatnam in an area of 12.135 acres.

3. The industry was inspected by the Environmental Engineer & Asst. Environmental Engineer-I, Regional Office, Visakhapatnam, A.P Pollution Control Board on 19.10.2019 and observed that the site is surrounded by

**North** : Plot No : 120 & Part of Plot No:121  
**South** : 30 M wide SEZ internal road followed by hills.  
**East** : Road followed by APEPDCL substation & Ramky Green belt.  
**West** : M/s Eisai Pharma Ltd.

4. The Board, after careful scrutiny of the application, verification report of the Regional Officer and recommendation of CFE committee, hereby issues **CONSENT FOR ESTABLISHMENT AND OPERATION for Change of Product Mix** to the project under Section 25/26 of Water (Prevention & Control of Pollution) Act 1974 and Section 21/22 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in the Annexure.

6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

7. **This order is valid upto 31.01.2022 i.e; validity of CFO & HWA order.**

**Encl:** Annexure.

**VIVEK YADAV IAS, MS(VY), O/o MEMBER SECRETARY-APPCB  
MEMBER SECRETARY**

**To**

**M/s. Granules Omnichem Pvt., Ltd., (CPM)  
Plot No.121/P & 122, JNPC,  
Parawada, Visakhapatnam.  
santhoshkumar.k@granulesomnichem.com  
tagore.ps@granulesomnichem.com**

**Copy to:** 1. The JCEE, Z.O: Visakhapatnam for information and necessary action.

2. The E.E., R.O: Visakhapatnam for information and necessary action.



**ANNEXURE**

1. The applicant shall provide separate energy meters for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
2. The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.

**Water:**

3. The source of water is JN Pharmacy, Parawada and the maximum permitted water consumption is as following:

S. No.	Purpose	As per CFE (CPM) order dt. 27.03.2019 (KLD)	Qty after Change of Product Mix (KLD)
1.	Process & Washings	140.70	140.70
2.	Scrubbers		
3.	DM Plant		
4.	RO rejects & Back Washes		
5.	Boiler feed	100.00	100.00
6.	Cooling tower makeup		
7.	Domestic	40.00	40.00
8.	Gardening	120.00	120.00
<b>Total</b>		<b>400.70</b>	<b>400.70</b>

Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned above.

4. The maximum waste water generation shall not exceed the following: (As per Ir.dt.25.10.2019)

Sl. No.	Source	As per CFE (CPM) order dt. 27.03.2019 (KLD)			Quantity after CPM (KLD)		
		HTDS	LTDS	TOTAL	HTDS	LTDS	TOTAL
1.	Process	30.30	0	30.3	29.74	0	29.74
2.	Washings	0	10.00	10.00	0	10.00	10.00
3.	Scrubbers	5.00	0	5.00	5.00	0	5.00
4.	Boiler blow down	0	2.00	2.00	0	2.00	2.00
5.	DM Plant	0	15.00	15.00	0	15.00	15.00
6.	RO Rejects & back washes	0	44.80	44.80	0	44.80	44.80
7.	Cooling tower blow down	0	5.00	5.00	0	5.00	5.00
8.	Domestic	0	32.00	32.00	0	32.00	32.00
<b>Total</b>		<b>35.30</b>	<b>108.8</b>	<b>144.10</b>	<b>34.74</b>	<b>108.8</b>	<b>143.54</b>

**Treatment & disposal:**

Source	Treatment	Mode of final disposal
HTDS	Pretreatment (Neutralization)	To M/s. Ramky Pharmacy for forced evaporation.
LTDS	Pretreatment (Neutralization)	To CETP of M/s. Ramky Pharmacy for further treatment and disposal
Domestic waste water	---	The overflow of the Septic tank shall be sent to the CETP for further treatment.

5. Effluents shall not be discharged on land or into any water bodies or aquifers under any circumstances.
6. The industry shall install online real time monitoring system along with web camera facilities as per the directions of CPCB. The industry shall connect them to APPCB / CPCB websites as per CPCB directions.
7. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. All pipe valves, sewers, drains shall be leak proof.

**Air:**

8. The Air pollution Control equipment shall be maintained properly to comply with the following for controlling air pollution after Change of Product Mix:

Sl. No	Details	Stack 1	Stack 2	Stack 3
a)	Attached to	Boiler	D.G set	D.G set
b)	Capacity	1 X 6.0 TPH	1 X 1500 KVA DG Set	1 X 1450 KVA DG Set
c)	Fuel	Coal	Diesel	
d)	Stack height	40 m	8 m.(from ground level)	8 m. (from ground level)
e)	Control Equipment	Cyclone separator & bag filter	Acoustic enclosure with silencer	Acoustic enclosure with silencer

9. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
10. The industry shall properly operate and maintain the monitoring system attached to all the stacks / vents in the plant. Regular monitoring shall be carried out and report shall be submitted to the Regional officer.

11. The industry shall properly operate and maintain multi-stage scrubbers to the process vents to control the process emissions. The industry shall ensure that online pH measuring facility with auto recording system is connected to the scrubbers.
12. The industry shall properly operate and maintain VOC monitoring system with auto recording facility.
13. The industry shall implement adequate measures to control all fugitive emissions from the plant.
14. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI vide notification No. GSR. 826 (E), dated. 16.11.2009 during construction and regular operational phase of the project at the periphery.

The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.

15. The proponent shall not use or generate odour causing substances or Mercaptans and cause odour nuisance in the surroundings.
16. The industry shall send the used / spent solvents to the recyclers (or) process them at their own solvent recovery facility within the premises.
17. The evaporation losses in solvents shall be controlled by taking the following measures:
  - i. Chilled brine circulation shall be carried out to effectively reduce the solvent losses into the atmosphere.
  - ii. Transfer of solvents shall be done by using pumps instead of manual handling.
  - iii. Closed centrifuges shall be used to reduce solvent losses.
  - iv. All the solvent storage tanks shall be connected with vent condensers to prevent solvent vapours.
  - v. The reactor vents shall be connected with primary & secondary condensers to prevent escaping of solvent vapour emissions into atmosphere.

**Solid Waste:**

18. The industry shall comply with the following for disposal of Solid wastes: (As per Ir.dt.25.10.2019)

S. No	Name of the waste	Quantity as per CFE (CPM) order dt.27.03.2019	Quantity after (CPM)	Mode of disposal
1	Organic Solid Waste	1106.20 kg/day	1077.49 kg/day	To Authorized cement industries for co processing or TSDF
2	Spent carbon	16.67 kg/day	8.33 kg/day	Parawada Visakhapatnam for incineration
3	Inorganic Solid Waste	419.90 kg/day	419.74 kg/day	To TSDF Parawada for secured land filling or Authorized cement

4	ETP Sludge	100.00 kg/day	100.00 kg/day	industries for co processing
5	Time expired /reject Raw Materials	50.00 kg/day	50.00 kg/day	
6	Off Specification products	50.00 kg/day	50.00 kg/day	
7	Used PPE	10.00 kg/day	10.00 kg/day	To TSDF Parawada for secured land filling / incineration
8	Insulation Waste	10.00 kg/day	10.00 kg/day	
9	Used Filter Bags & Filters	20.00 kg/day	20.00 kg/day	
10	Containers & container liners of hazardous chemicals	800 Nos./ Month	800 Nos./ Month	After detoxification, it shall be disposed to the outside agencies
11	Waste Oils & Grease	800 LPA	800 LPA	Authorized Reprocesses /Recyclers
12	Spent Solvents	160 TPM	160 TPM	Shall be recovered within the premises / disposed to PCB authorized recycling units.
13	Coal Ash	2.3 TPD	2.3 TPD	Brick Manufacturing units

19. The proponent shall place the chemical drums and / or any drums in a shed provided with concrete platform only. The Platform shall be provided with sufficient dyke wall and effluent collection system. The industry shall provide containers detoxification facility. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.

20. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.

- a) Regulation of Persistent Organic Pollutants Rules, 2018.
- b) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
- c) Plastic Waste Management Rules, 2016.
- d) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
- e) Fly Ash Notification, 2016.
- f) Batteries (Management & Handling) Rules, 2010.
- g) E-Waste (Management) Rules, 2016.
- h) Construction and Demolition waste Management Rules, 2016.
- i) Solid Waste Management Rules, 2016.
- j) The Public Liability Insurance Act, 1991 and its amendments thereof.

**Other Conditions:**

21. Existing green belt shall not be disturbed due to the proposed Change of Product Mix. Thick green belt shall be maintained all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.

22. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Regional Office and Zonal Office of the Board.
23. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
24. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
25. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules,1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

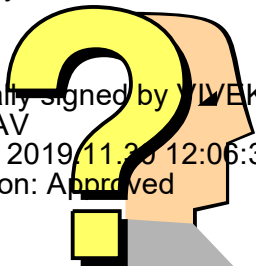
**VIVEK YADAV IAS, MS(VY), O/o MEMBER SECRETARY-APPCB  
MEMBER SECRETARY**

**To**

**M/s. Granules Omnichem Pvt., Ltd., (CPM)  
Plot No.121/P & 122, JNPC,  
Parawada, Visakhapatnam.  
santhoshkumar.k@granulesomnichem.com  
tagore.ps@granulesomnichem.com**

Validity unknown

Digitally signed by VIVEK  
YADAV  
Date: 2019/11/29 12:06:38 IST  
Reason: Approved



**ANNEXURE-1**

**COMPLIANCE OF CONSENT FOR  
ESTABLISHMENT & OPERATION**

**COMPLIANCES OF CONSENT ORDER FOR ESTABLISHMENT & OPERATION**

**M/s. GRANULES OMNICHEM PVT.LTD**

**Order No: 297 /APPCB/CFE/RO-VSP/HO/2012, Dated: 30/11/2019**

S.No	CONDITIONS	COMPLIANCE
<b><u>ANNEXURE</u></b>		
1.	The applicant shall provide separate energy meters for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.	We have provided separate energy meters for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed. Two DG Sets of capacities 1 x 1500 KVA and 1 x 1450 KVA are provided in the industry as alternate power source. <b>DG Sets photographs are attached as annexure for your kind perusal.</b>
2.	The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.	We have provided separate storm water drains and the rain water is routed to Ramky rain water harvesting structures. Roof top rain water will also sent to storm water drains.

**Water:**

3.	The source of water is JN Pharmacy, Parawada and the maximum permitted water consumption is as following:	The required to the industry is sourced through APIIC supply. We are not using more than the stipulated quantity of water for daily consumption. Separate meters with necessary pipe-lines are provided for assessing quantity of water utilized for each purpose.																																								
	<table border="1"> <thead> <tr> <th align="center">S.No.</th> <th align="center">Purpose</th> <th align="center">As per CFE (CPM) order dt. 27.03.2019 (KLD)</th> <th align="center">Qty after Change of Product Mix (KLD)</th> </tr> </thead> <tbody> <tr> <td align="center">1.</td> <td>Process &amp; Washings</td> <td align="center">140.70</td> <td align="center">140.70</td> </tr> <tr> <td align="center">2.</td> <td>Scrubbers</td> <td></td> <td></td> </tr> <tr> <td align="center">3.</td> <td>DM Plant</td> <td></td> <td></td> </tr> <tr> <td align="center">4.</td> <td>RO rejects &amp; Back Washes</td> <td></td> <td></td> </tr> <tr> <td align="center">5.</td> <td>Boiler feed</td> <td align="center">100.0</td> <td align="center">100.0</td> </tr> <tr> <td align="center">6.</td> <td>Cooling tower makeup</td> <td></td> <td></td> </tr> <tr> <td align="center">7.</td> <td>Domestic</td> <td align="center">40.0</td> <td align="center">40.0</td> </tr> <tr> <td align="center">8.</td> <td>Gardening</td> <td align="center">120.0</td> <td align="center">120.0</td> </tr> <tr> <td align="center" colspan="2"><b>Total</b></td> <td align="center"><b>400.70</b></td> <td align="center"><b>400.70</b></td> </tr> </tbody> </table>	S.No.	Purpose	As per CFE (CPM) order dt. 27.03.2019 (KLD)	Qty after Change of Product Mix (KLD)	1.	Process & Washings	140.70	140.70	2.	Scrubbers			3.	DM Plant			4.	RO rejects & Back Washes			5.	Boiler feed	100.0	100.0	6.	Cooling tower makeup			7.	Domestic	40.0	40.0	8.	Gardening	120.0	120.0	<b>Total</b>		<b>400.70</b>	<b>400.70</b>	
S.No.	Purpose	As per CFE (CPM) order dt. 27.03.2019 (KLD)	Qty after Change of Product Mix (KLD)																																							
1.	Process & Washings	140.70	140.70																																							
2.	Scrubbers																																									
3.	DM Plant																																									
4.	RO rejects & Back Washes																																									
5.	Boiler feed	100.0	100.0																																							
6.	Cooling tower makeup																																									
7.	Domestic	40.0	40.0																																							
8.	Gardening	120.0	120.0																																							
<b>Total</b>		<b>400.70</b>	<b>400.70</b>																																							
	Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned above.																																									

4. The maximum waste water generation shall not exceed the following: (As per Ir.dt.25.10.2019)

S. No	Source	As per CFE (CPM) order dt. 27.03.2019 (KLD)			Quantity after CPM (KLD)		
		HT DS	LT DS	TOTAL	HT DS	LT DS	TOTAL
1.	Process	30.30	0	30.3	29.74	0	29.74
2.	Washings	0	10.00	10.0	0	10.00	10.00
3.	Scrubbers	5.0	0	5.0	5.0	0	5.0
4.	Boiler blow down	0	2.0	2.0	0	2.0	2.0
5.	DM Plant	0	15.00	15.0	0	15.00	15.00
6.	RO Rejects & back washes	0	44.80	44.80	0	44.80	44.80
7.	Cooling tower blow down	0	5.0	5.0	0	5.0	5.0
8.	Domestic	0	32.00	32.0	0	32.00	32.00
	<b>Total</b>	<b>35.30</b>	<b>108.8</b>	<b>144.10</b>	<b>34.74</b>	<b>108.8</b>	<b>143.54</b>

**Treatment & Disposal:**

Source	Treatment	Mode of final disposal
HTDS	Pre-treatment (Neutralization)	To M/s. Ramky Pharmacy for forced evaporation
LTDS	Pre-treatment (Neutralization)	To CETP of M/s. Ramky Pharmacy for further treatment and disposal
Domestic waste water	---	The overflow of the Septic tank shall be sent to the CETP for further treatment.

The waste water generated is within the limits as given in the consent order. Effluents generating from the plant are divided into L.T.D.S & H.T.D.S. These effluents are pre treated i.e. Neutralized in the ETP provided in the industry and after pre treatment it is sent to Ramky CETP for further treatment to the board standards.

5. Effluents shall not be discharged on land or into any water bodies or aquifers under any

We are not discharging effluents outside the premises or any other water bodies. The



	circumstances.	effluents generated are segregated into LTDS & HTDS and after pre treatment being sent to Ramky Common Effluent Treatment Plant.
6.	The industry shall install online real time monitoring system along with web camera facilities as per the directions of CPCB. The industry shall connect them to APPCB/CPCB websites as per CPCB directions.	We have installed online real-time monitoring system along with web camera facilities as per the directions of CPCB. <b>Photograph of web camera is attached as annexure for your kind perusal.</b>
7.	Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. All pipe valves, sewers, drains shall be leak proof.	All the wash water from the industry is taken to the effluent treatment plant for treatment. All the pipe valves, sewers, and drains are leak proof.

**Air:**

8.	<p>The Air pollution Control equipment shall be maintained properly to comply with the following for controlling air pollution after Change of Product Mix:</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Details</th> <th>Stack 1</th> <th>Stack 2</th> <th>Stack 3</th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>Attached to</td> <td>Boiler</td> <td>D.G Set</td> <td>D.G Set</td> </tr> <tr> <td>b)</td> <td>Capacity</td> <td>1x6.0 TPH</td> <td>1x1500 KVA D.G Set</td> <td>1 X 1450 KVA DG Set</td> </tr> <tr> <td>c)</td> <td>Fuel</td> <td>Coal</td> <td colspan="2">Diesel</td> </tr> <tr> <td>d)</td> <td>Stack height</td> <td>40 m</td> <td>8m (from ground level)</td> <td>8m (from ground level)</td> </tr> <tr> <td>e)</td> <td>Control Equipment</td> <td>Cyclone separator &amp; bag filter</td> <td>Acoustic enclosure with silencer</td> <td>Acoustic enclosure with silencer</td> </tr> </tbody> </table>	S. No	Details	Stack 1	Stack 2	Stack 3	a)	Attached to	Boiler	D.G Set	D.G Set	b)	Capacity	1x6.0 TPH	1x1500 KVA D.G Set	1 X 1450 KVA DG Set	c)	Fuel	Coal	Diesel		d)	Stack height	40 m	8m (from ground level)	8m (from ground level)	e)	Control Equipment	Cyclone separator & bag filter	Acoustic enclosure with silencer	Acoustic enclosure with silencer	<p>We are maintaining effective Air Pollution Control Equipment. All the emissions from the stacks are within the limits as per the stack emission reports. We have provided two DG Sets with acoustic enclosure within the industry premises. Regular stack monitoring is being carried out and analysis values are attached as annexure for your kind perusal.</p>
S. No	Details	Stack 1	Stack 2	Stack 3																												
a)	Attached to	Boiler	D.G Set	D.G Set																												
b)	Capacity	1x6.0 TPH	1x1500 KVA D.G Set	1 X 1450 KVA DG Set																												
c)	Fuel	Coal	Diesel																													
d)	Stack height	40 m	8m (from ground level)	8m (from ground level)																												
e)	Control Equipment	Cyclone separator & bag filter	Acoustic enclosure with silencer	Acoustic enclosure with silencer																												
9.	A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.	We have already provided sampling port for the three stacks i.e., for 2 DG Sets and for a boiler. Monitoring is being carried out by third party and the reports are available with the industry.																														
10.	The industry shall properly operate and maintain the monitoring system attached to all the stacks / vents in the plant. Regular monitoring shall be carried out and report shall be submitted to the Regional officer.	We are properly operating the monitoring systems attached to the stacks & regular monitoring is being carried out i.e., quarterly basis and analysis reports are being submitted to the Regional Office, Visakhapatnam. <b>Analysis reports are enclosed as annexure for your kind perusal.</b>																														
11	The industry shall properly operate and maintain multi-stage scrubbers to the	We are properly maintaining multi-stage scrubbers for process vents. Online pH meter																														

	process vents to control the process emissions. The industry shall ensure that online pH measuring facility with auto recording system is connected to the scrubbers.	is connected to Multi stage scrubber with auto recording facility as directed by the board. <b>Photographs of Multi Stage Scrubber for Process vent &amp; Online pH meter connected to Multi stage scrubber are attached as annexure for your kind perusal.</b>
12.	The industry shall properly operate and maintain VOC monitoring system with auto recording facility.	We are operating and maintaining VOC meter. VOC's generated is being continuously monitored by using VOC sensor as well as third party VOC monitoring is being done on quarterly basis. <b>Photograph of VOC Analyzer is attached as annexure for your kind perusal.</b>
13.	The industry shall implement adequate measures to control all fugitive emissions from the plant.	We are taking necessary measures to control fugitive emissions from the plant. The internal roads are black top. Scrubbers are provided to control fugitive emissions from the industry. <b>Photographs are attached as annexure for your kind perusal.</b>
14.	The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI vide notification No. GSR. 826 (E), dated.16.11.2009 during construction and regular operational phase of the project at the periphery. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB (A) during daytime and 70 dB(A) during night time.	Ambient Air Quality and Noise levels are well below the standards stipulated by the board. Regular monitoring is being carried out and analysis reports are being submitted to the board.
15.	The proponent shall not use or generate odour causing substances or Mercaptans and cause odour nuisance in the surroundings.	We are not using Mercaptans. No odour causing substances are observed during site visit, ETP neutralization facility connected with two scrubbers for reducing odour nuisance generated from the effluent treatment plant.
16.	The industry shall send the used / spent solvents to the recyclers (or) process them at their own solvent recovery facility within the premises.	We are having Solvent Recovery System and the spent solvents recovered from SRS( Solvent Recovery Unit) are selling to recyclers as directed by the board.
17	The evaporation losses in solvents shall be controlled by taking the following measures:  i. Chilled brine circulation shall be carried out to effectively reduce the solvent losses into the atmosphere ii. Transfer of solvents shall be done by using pumps instead of manual handling. iii. Closed centrifuges shall be used to reduce solvent losses. iv. All the solvent storage tanks shall be connected with vent condensers to	During the site visit, we are taking necessary measures to control evaporation losses in solvents is as follows:  i. Chilled brine circulation is being carried out to reduce the solvent losses into the atmosphere. ii. Transfer of solvents is being done by pumps only. No manual handling of solvents is observed. iii. Being Complied. iv. All the solvent storage tanks are connected with vent condensers to prevent solvent vapours. iv. Being Complied.

- v. prevent solvent vapours.  
The reactor vents shall be connected with primary & secondary condensers to prevent escaping of solvent vapour emissions into atmosphere.

**Solid Waste:**

18. The industry shall comply with the following for disposal of Solid wastes: (As per Ir.dt.25.10.2019).

S. No	Name of the waste	Quantity as per CFE (CPM) order dt.27.03.2019	Quantity after (CPM)	Mode of disposal
1	Organic Solid Waste	1106.20 kg/day	1077.49 kg/day	To Authorized cement industries for co processing or TSDF Parawada Visakhapatnam for incineration
2	Spent carbon	16.67 kg/day	8.33 kg/day	
3	Inorganic solid waste	419.90 kg/day	419.74 kg/day	To TSDF Parawada for secured land filling or Authorized cement industries for co processing.
4	ETP Sludge	100.00 kg/day	100.0 kg/day	
5	Time expired /reject Raw Materials	50.00 kg/day	50.00 kg/day	
6	Off specification products	50.00 kg/day	50.00 kg/day	

The generated solid and hazardous waste are being stored separately in a secured way. Time to time disposal is being done to the TSDF - Parawada provided by Ramky Enviro Engineers as directed by the board.

	7	Used PPE	10.00 kg/day	10.00 kg/day	To TSDF Parawada for secured land filling / incineration
	8	Insulation Waste	10.00 kg/day	10.00 kg/day	
	9	Used Filter bags & Filters	20.00 kg/day	20.00 kg/day	
	10	Containers & container liners of hazardous chemicals	800 Nos./ Month	800 Nos./ Month	After detoxification, it shall be disposed to the outside agencies
	11	Waste Oils & Grease	800 LPA	800 LPA	Authorized Reprocesses /Recyclers
	12	Spent solvents	160 TPM	160 TPM	Shall be recovered within the premises / disposed to PCB authorized recycling units.
	13	Coal Ash	2.3 TPD	2.3 TPD	Brick Manufacturing units
19.	The proponent shall place the chemical drums and / or any drums in a shed provided with concrete platform only. The Platform shall be provided with sufficient dyke wall and effluent collection system. The industry shall provide containers detoxification facility. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.				All the chemical drums are placed in a dedicated storage yards with leachate collection pits. We have provided container detoxification facility. Effluents are separated as Low TDS & High TDS, and are collected in the tanks at ETP as directed by the board.
20.	The following rules and regulations notified by the MoEF&CC, GoI shall be implemented:				We are following all the rules & regulations notified by the MoEF&CC, GoI.

	<p>a) Regulation of Persistent Organic Pollutants Rules, 2018.</p> <p>b) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.</p> <p>c) Plastic Waste Management Rules, 2016.</p> <p>d) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.</p> <p>e) Fly Ash Notification, 2016.</p> <p>f) Batteries (Management &amp; Handling) Rules, 2010.</p> <p>g) E-Waste (Management) Rules, 2016.</p> <p>h) Construction and Demolition waste Management Rules, 2016.</p> <p>i) Solid Waste Management Rules, 2016.</p> <p>j) The Public Liability Insurance Act, 1991 and its amendments thereof.</p>	
<b>Other conditions:</b>		
21.	Existing green belt shall not be disturbed due to the proposed Change of Product Mix. Thick green belt shall be maintained all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.	We are maintaining thick greenbelt within the industry premises which is about 33 % as directed by the board. <b>Photographs are attached as annexure for your king perusal.</b>
22.	The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Regional Office and Zonal Office of the Board.	We have recently submitted information regarding ozone depleting substances to the Regional and Zonal Office as directed by the board.
23.	Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.	We are complying with the conditions stipulated in the order.
24.	Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21 (4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.	Noted.
25.	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules,1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of	We have agreed to follow all the rules stipulated by the board.

Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.	
--	--

**ANNEXURE-2**  
**PHOTOGRAPHS**



**ENERGY METERS FOR ETP & APCE**



**EFFLUENT FLOW METER & WEB  
CAMERA FACILITY**

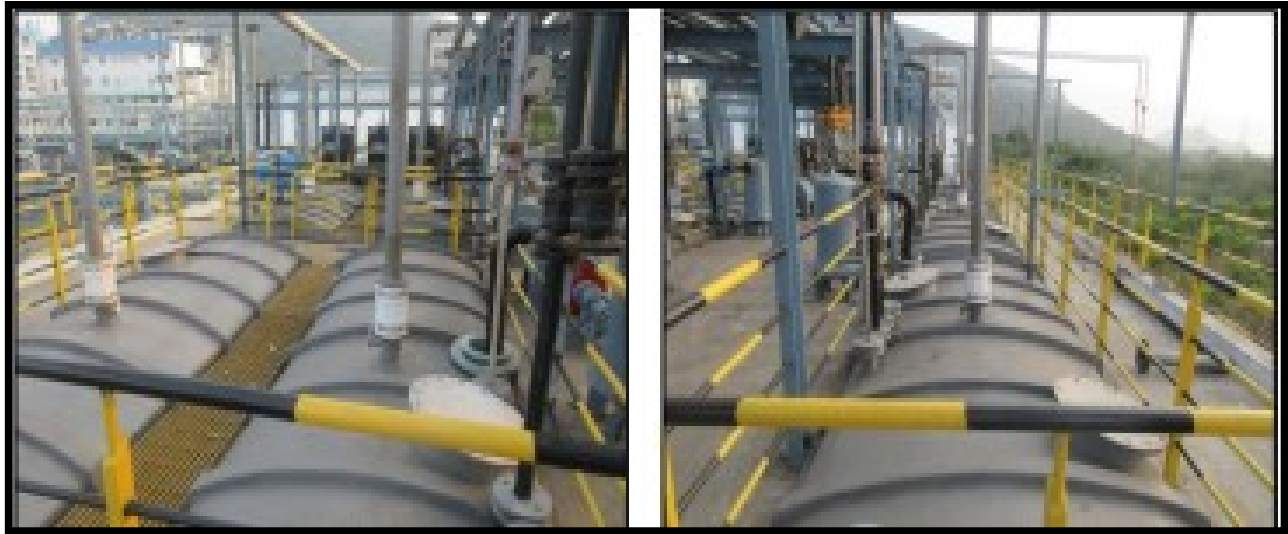




**DIGITAL FLOW METERS AT FRESH WATER FACILITY**



**DIGITAL FLOW METERS AT PROCESS AREA FOR LTDS  
& HTDS**



**L. T. D. S & H. T. D. S. TANKS AT ETP**



**BOILER STACK, AIR POLLUTION CONTROL DEVICES  
(CYCLONE SEPERATOR & BAG FILTER)**



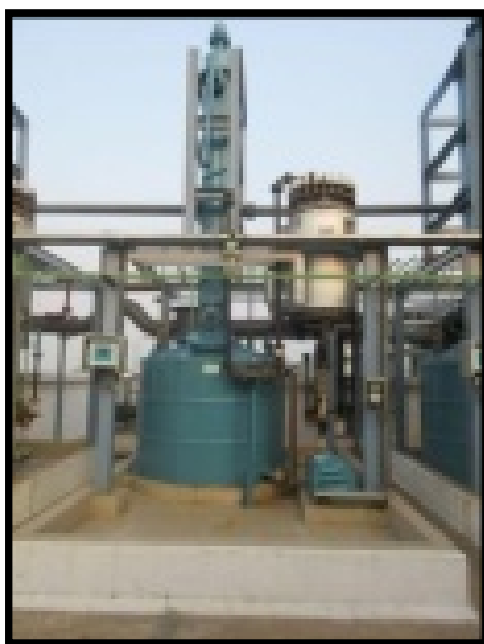
**VOC ANALYZER**



**ONLINE pH METER CONNECTED TO  
MULTI STAGE SCRUBBER**



**MULTI STAGE SCRUBBERS FOR PROCESS VENTS**



**SCRUBBER FOR FUGITIVE EMISSIONS AT WORK  
PLACE**



**DIESEL GENERATOR WITH  
ACOUSTIC ENCLOSURES**



**CHILLING BRINE STORAGE TANK**



**STORM WATER DRAIN**



**GREENBELT ALONG THE  
PERIPHERY OF THE INDUSTRY**

**ANNEXURE-3**  
**MONITORING REPORTS**





ISO 9001, 14001 & 45001  
CERTIFIED COMPANY

# [Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi  
& Laboratory Accredited by NABL

## TEST REPORT

REF.NO: LAWN/GOCPL/2020

Date: 22-5-2020

### AMBIENT AIR QUALITY DATA

Name of the Industry & Address : **M/s. GRANULES OMNICHEM PVT.LTD.,**  
Plot No. 121/P & 122,  
Jawaharlal Nehru Pharmacy,  
Parawada, Visakhapatnam – 531 019.

Location	Near Security Main Gate	Near CF Boiler	Near ETP	Near SRP	LIMIT	PROTOCOL
1. Date of sampling	: 13-5-2020	13-5-2020	13-5-2020	13-5-2020	--	--
2. Total time of monitoring	: 8 hrs	8 hrs	8 hrs	8 hrs	--	--
3. Average flow rate (cum/min)	: 1.08	1.14	1.03	1.12	--	--
4. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) --PM <sub>10</sub>	: 73	86	82	79	<100	IS:5182 (Part-23)
5. Particulate matter Concentration ( $\mu\text{g}/\text{m}^3$ ) --PM <sub>2.5</sub>	: 25	37	30	28	<60	NAAQMS/ 36/2012-13
6. Sulphur dioxide (SO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 06	12	10	08	<80	IS:5182 (Part-2)
7. Nitrogen dioxide (NO <sub>2</sub> ) Concentration ( $\mu\text{g}/\text{m}^3$ )	: 20	17	22	15	<80	IS:5182 (Part-6)

1. RESPIRABLE DUST SAMPLER MODEL /SL.NO. RDS 9000 / 040139
2. RESPIRABLE DUST SAMPLER MODEL /SL.NO. RDS 9000 / 040140
3. RESPIRABLE DUST SAMPLER MODEL /SL.NO. RDS 9000 / 050239
4. RESPIRABLE DUST SAMPLER MODEL /SL.NO. RDS 9000 / 040506

AUTHORISED SIGNATORY

Head Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926

Branch Office : H.No.18/2, Ground Floor, Phase-I, Vuda Nagar, Rajiv Nagar Road, Kurmannapalem, Visakhapatnam - 530046. (A.P.) Tel : +91-9030029925

E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com





ISO 9001, 14001 & 45001  
CERTIFIED COMPANY

# [Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi  
& Laboratory Accredited by NABL

## TEST REPORT

REF.NO: LAWN/GOCPL/2020

Date: 22-5-202

### STACK MONITORING DATA

Name of the Industry & Address : **M/s. GRANULES OMNICHEM PVT.LTD.,**  
Plot No. 121/P & 122,  
Jawaharlal Nehru Pharmacy,  
Parawada, Visakhapatnam – 531 019.

Sample Particulars : Stack attached to the Coal fired Boiler (6 TPH)  
Date of Sampling : 13-5-2020

		PROTOCOL
1. Stack diameter (m)	: 1.20	--
2. Stack cross sectional area (sq m)	: 1.13	--
3. Flue gas temperature (°C)	: 121	IS-11255 (P-1) 1985;ASTMD-3685
4. Exit velocity of flue gases (m/sec)	: 6.05	IS-11255 (P-1) 1985;ASTMD-3685
5. Flow rate (cum/hr)	: 24,611	IS-11255 (P-3) 1985;ASTMD-3685

EMISSION DATA		LIMIT	
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 95	<100	IS-11255 (Part-1); 1985
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 221	---	IS-11255 (Part-2); 1985
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 115	---	IS-11255 (Part-7); 2005

  
AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO.LES-APM 160, SL.NO.13-DTC-2012, CALIBRATED ON 07-10-2019, DUE ON 06-10-2020  
M/S. LATA ENVIROTECH SERVICES.,

**Head Office** : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926

**Branch Office** : H.No.18/2, Ground Floor, Phase-I, Vuda Nagar, Rajiv Nagar Road, Kurmannapalem, Visakhapatnam - 530046. (A.P.) Tel : +91-9030029925

E-mail : [lawnenviro@yahoo.co.in](mailto:lawnenviro@yahoo.co.in), Website : [www.lawnenviro.com](http://www.lawnenviro.com)



ISO 9001, 14001 & 45001  
CERTIFIED COMPANY

# [Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi  
& Laboratory Accredited by NABL

## TEST REPORT

REF.NO: LAWN/GOCPL/2020

Date: 22-5-2020

### STACK MONITORING DATA

Name of the Industry & Address : **M/s. GRANULES OMNICHEM PVT.LTD.,**  
Plot No. 121/P & 122,  
Jawaharlal Nehru Pharmacy,  
Parawada, Visakhapatnam – 531 019.

Sample Particulars : Stack attached to the 1500 KVA D.G. Set (More than 800 kW)  
Date of Sampling : 13-5-2020

			PROTOCOL
1. Stack diameter (m)	: 0.27		--
2. Stack cross sectional area (sq m)	: 0.057		--
3. Flue gas temperature (°C)	: 304		IS-11255 (P-1) 1985;ASTMD-3685
4. Exit velocity of flue gases (m/sec)	: 17.96		IS-11255 (P-1) 1985;ASTMD-3685
5. Flow rate (cum/hr)	: 3,685		IS-11255 (P-3) 1985;ASTMD-3685
EMISSION DATA		LIMIT	
6. Particulate matter (Pm) Concentration (mg/N m <sup>3</sup> )	: 65	<75	IS-11255 (Part-1); 1985
7. Oxides of nitrogen (No <sub>x</sub> ) Concentration (mg/N m <sup>3</sup> )	: 281	<710	IS-11255 (Part-7); 2005
8. Carbonmonoxide Concentration (mg/Nm <sup>3</sup> )	: 64	<150	IS-5182 (Part-10; 1999)
9. Non-methane Hydrocarbons (NMHC as C) Concentration (mg/Nm <sup>3</sup> )	: 19	<100	ASTM

  
AUTHORISED SIGNATORY

STACK MONITORING KIT : MODEL NO.LES-APM 160, SL.NO.13-DTC-2012, CALIBRATED ON 07-10-2019, DUE ON 06-10-2020  
M/S. LATA ENVIROTECH SERVICES.,

**Head Office :** "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad - 500 038. (T.S.) INDIA. Tel : 040-66730925, 66730926, Fax : 040-66730926  
**Branch Office :** H.No.18/2, Ground Floor, Phase-I, Vuda Nagar, Rajiv Nagar Road, Kurmannapalem, Visakhapatnam - 530046. (A.P.) Tel : +91-9030029925  
E-mail : lawnenviro@yahoo.co.in, Website : www.lawnenviro.com



ISO 9001, 14001 & 45001  
CERTIFIED COMPANY

# [Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi  
& Laboratory Accredited by NABL

## TEST REPORT

REF.NO: LAWN/GOCPL/2020

Date: 22-5-2020

### WASTE WATER ANALYSIS

Name of the Industry & Address : **M/s. GRANULES OMNICHEM PVT.LTD.,**  
Plot No. 121/P & 122,  
Jawaharlal Nehru Pharamcity,  
Parawada, Visakhapatnam – 531 019.

Sample Particulars : Treated HTDS Effluent  
Date of Collection : 13-5-2020  
Date of Analysis : 14-5-2020  
PROTOCOL : A.P.H. A. 23<sup>rd</sup> Edition

1. pH	:	7.33
2. Total dissolved solids	:	9,048
3. Total Suspended solids	:	835
4. Chemical oxygen demand	:	11,062
5. Biochemical oxygen demand (3 days at 27 °C)	:	3,794
6. Chlorides as Cl	:	3,260
7. Sulphates as So <sub>4</sub>	:	1,835
8. Oil & Grease	:	10.50

Note: All the values except pH are expressed in mg/L.

  
AUTHORISED SIGNATORY





ISO 9001, 14001 & 45001  
CERTIFIED COMPANY

# [Engineers & Consultants in Pollution Control]

Recognised by Ministry of Environment Forest & Climate Change (MoEF & CC), GOI, New Delhi  
& Laboratory Accredited by NABL

## TEST REPORT

REF.NO: LAWN/GOCPL/2020

Date: 22-5-2020

### WASTE WATER ANALYSIS

Name of the Industry & : **M/s. GRANULES OMNICHEM PVT.LTD.,**  
Address : Plot No. 121/P & 122,  
Jawaharlal Nehru Pharmacy,  
Parawada, Visakhapatnam – 531 019.

Sample Particulars : Treated LTDS Effluent  
Date of Collection : 13-5-2020  
Date of Analysis : 14-5-2020  
PROTOCOL : A.P.H. A. 23<sup>rd</sup> Edition

			Limits prescribed by CETP
1. pH	:	7.06	6.5 – 8.50
2. Temperature °C	:	35	45
3. Total dissolved solids	:	2,796	12,000
4. Total Suspended solids	:	284	600
5. Chemical oxygen demand	:	2,532	8,000
6. Biochemical oxygen demand (3 days at 27 °C)	:	1,218	3,000
7. Oil & Grease	:	4.80	20
8. Ammonical Nitrogen as N	:	16	30
9. Cyanide as CN	:	<0.01	0.20
10. Chromium Hexavalent as Cr+6	:	<0.01	2.0
11. Chromium (Total) as Cr	:	0.12	2.0
12. Lead as Pb	:	0.06	1.0
13. Nickel as Ni	:	0.14	3.0
14. Zinc as Zn	:	1.72	15
15. Arsenic as As	:	<0.01	0.20
16. Mercury as Hg	:	<0.001	0.01

Note: 1. All values except pH are expressed in mg/L.  
2. BDL - Below detectable limit.

  
AUTHORISED SIGNATORY