



DEEPAK FERTILISERS  
AND PETROCHEMICALS  
CORPORATION LIMITED

Ref:MoEF/EC/K-7/010620

Date: 26<sup>th</sup> May, 2020

To,  
Director(S)  
Ministry of Environment, Forest & Climate Change,  
Regional Office (WCZ),  
Ground Floor, East Wing,  
New Secretariate Building, Civil Lines  
Nagpur – 440 001.

**Sub: Six monthly Compliance report for EC No. J-11011/481/2007-IA-II(I) dated 05/12/2007.**

Dear Sir,

We are submitting herewith the six monthly compliance report (October 2019 to March 2020) for Environment Clearance No. J-11011/481/2007-IA-II(I), dated 05/12/2007 issued to our Bentonite Sulphur plant at Plot K-7, MIDC Industrial Area, Talaja, Dist. Raigad.

Thanking you,

Yours faithfully,

For, Deepak Fertilizers and Petrochemicals Crop. Ltd.,

DEEPAK PANDE  
Head (EHS)



CC : Regional Officer, MPCB, CBD-Belapur, Navi Mumbai

**DATA SHEET**

1	Project type: River - valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)	Industry
2	Name of the project	Manufacture of Bentonite-Sulphur-Pastilles (50000 TPA) at Plot No K7 of MIDC Industrial Area, District Raigad, Maharashtra by M/s Deepak Fertilizers and Petrochemicals Corporation Ltd.
3	Clearance letter ( s ) /OM No. and Date	EC granted for Bentonite Sulphur Project vide file no. J-11011/481/2007-IA-II(I) dt 05/12/2007
4	Location	
	a. District ( S )	Raigad
	b. State ( S )	Maharashtra
	c. Latitude/longitude	
5	Address for correspondence	
	a. Address of Concerned Project Chief Engineer ( with pin code & Telephone/ telex/ fax numbers	Mr. Deepak Pande (Sr.GM-EHS), M/s Deepak Fertilisers & Petrochemicals Corporation Ltd. Plot No. K-7, MIDC Industrial area, Taloja, District Raigad – 410208, Maharashtra. Phone: - 022-50684221, 9920942161
	b. Address of Executive Project: Engineer/Manager ( with pincode/ Fax numbers)	Same as above
6	Salient features	
	a. of the project	Bentonite Sulphur Pastilles are manufactured which is used as fertilizer.
	b. of the environmental management plans	Periodic monitoring of particulate matter is carried out by third party and results are less than 50 mg/Nm3
7	Break up of the project area	
	a. submergence area forest & non forest	NA, (MIDC Land)
	b. Others	NA
8	Break up of the project affected Population with enumeration of Those losing houses/dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	NA, (MIDC Land)
	a. SC, ST/Adivasis	NA, (MIDC Land)
	b. Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	NA
9	Financial details.	
	a. Project cost as originally planned and subsequent revised estimates and the year of price reference	Rs. 40 Crores but Rs. 14.53 Crores are invested for 25,000 MT/A of production during the year 2007.
	b. Allocation made for environmental management plans with item wise and year wise Break-up.	Yes. Rs. 25,000 for plantation Year 2008-09 Rs. 25,000 for plantation Year 2009-10 Rs. 12,000 for plantation Year 2010-11 Rs. 50,000 for plantation Year 2011-12 for Plot K-1 to K-8. Year 2012-13 for Plot K-1 to K-8. 1)Rs 10 lakhs for plantation. <b>Year 2013-14 for Plot K-1 to K-8.</b> 1)Rs 5 lakhs for plantation. <b>Year 2014-15 for Plot K-1 to K-8.</b> 1)Rs 5 lakhs for plantation. 2)Rs 1.5 lakhs- Weather Monitoring Station. <b>Year 2015-16 for Plot K-1 to K-8.</b> 1)Rs 5 lakhs for plantation. <b>Year 2016-17 for Plot K-1 to K-8.</b> 1)Rs 5 lakhs for plantation. 2)Rs 3.9 lakhs - AMC for Online Emission & Effluent Quality Monitoring System. <b>Year 2017-18 for Plot K-1 to K-8.</b> 1)Rs 48 lakhs for plantation 2)Rs 3.9 lakhs - AMC for Online Emission & Effluent Quality Monitoring System. <b>Year 2018-19 for Plot K-1 to K-8.</b> 1)Rs 20.68 lakhs for plantation year 2018-19 for Plot K-1 to K-8. 2)Rs 3.9 lakhs - AMC for Online Emission & Effluent Quality Monitoring System. 3)Rs 0.15 lakhs – Diversion of positive discharge of treated effluent line
	c. Benefit cost ratio/Internal rate of Return and the year of assessment	
	d. Whether ( c ) includes the Cost of environmental management as shown in the above.	Yes
	e. Actual expenditure incurred on the project so far.	Rs. 14.53 Crores
	f. Actual expenditure incurred on the environmental management plans so far	Rs. 99,80,000 for plantation
10	Forest land requirement	
	a. The status of approval for diversion of forest land for non-forestry use	NA, (MIDC Land)
	b. The status of compensatory afforestation program in the light of actual field experience so far	NA, (MIDC Land)
11	The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information	NA, (MIDC Land)
12	Status of construction	
	a. Date of commencement ( Actual and/or planned)	Year 2007
	b. Date of completion (Actual and/of planned )	31 July 2008
13	Reasons for the delay if the Project is yet to start	NA
14	Dates of site visits	
	a. The dates on which the project was monitored by the Regional Office on previous Occasions, if any	NA
	b. Date of site visit for this monitoring report	NA
15	Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits )	NA

### List of Attachments

Sr. No.	Attachments	Number of pages
1	Six Monthly EC Compliance Report	3
2	Copy of EC dated 05.12.2007.	4
3	Laboratory Reports (M/S GADARK Lab.)	
	Annexure 1 - Stack Emission Analysis (dated 25.10.19 and 08.01.20)	4
	Annexure – 2 - Ambient Air Analysis (dated 08.01.20)	1
	Annexure – 3 – PLI Policy for the period April 2019 to March 2020.	6

**Compliance Status to Environment Clearance No. J-11011/481/2007-IA-II(I) dated 05/12/2007 for Bentonite Sulphur (for the period October 2019 to March 2020) :-**

**Date of Compliance: - 01/06/2020**

**SPECIFIC CONDITIONS:**

Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
1	<p>a) Adequate chimney height, hoods, exhaust fans, exhaust ducts and scrubbers shall be provided to control emissions from boiler and DG set as per standards / norms.</p> <p>b) The molten Sulphur tank and mixing tank shall be provided with vents connected to filters to absorb the Sulphur and should be neutralized by using clay to control particulate matter less than 50 mg/nm<sup>3</sup> or standards prescribed by the MPCB whichever are more stringent.</p> <p>c) Periodic monitoring of vents shall be carried out and reports submitted to the Ministry's Regional Office at Bhopal/MPCB/CPCB.</p>	<p>a) Not applicable as neither Boiler nor DG Set are installed at K-7.</p> <p>b) Solid sulphur is not used in mixing tank, molten sulphur is used and hence there are no dust missions. Blower is provided to Mixing Tank.</p> <p>c) Periodic monitoring of particulate matter is carried out by third party &amp; the results are well within limit. <b>(Annexure - 1)</b></p>
2	<p>High level vents and fume extraction system shall be provided to the molten Sulphur tank and mixing tank to control fugitive emissions.</p>	<p>Fume extraction system /blower is provided to control fugitive emissions.</p>
3	<p>a) Total water requirement from MIDC supply and effluent generation shall not exceed 31 m3/day and 7.5 m3/day respectively. No ground water shall be used. 'Permission' for the drawl of 31 m3/day shall be obtained from the concerned Department. All the effluent containing minor doses of phosphates, biocides, Sulphur dust and Bentonite Clay shall be properly treated and clear liquid shall be sent to CETP at Taloja for further treatment. Project authorities shall ensure valid 'Membership' to CETP.</p> <p>b) Domestic effluent shall be treated in septic tank followed by soak pit.</p>	<p>a) The water consumption is well within the limits specified by MPCB. Effluent is treated suitably &amp; disposed to CETP, Taloja. Membership Certificate from CETP is obtained.</p> <p>b) Septic tank &amp; soak pit are provided.</p>
4	<p>a) As reflected in the EIA / EMP report, 90% of the solid waste shall be recycled back into the process and remaining shall be sold as fertiliser to authorised customers. No solid/hazardous waste shall be disposed off.</p> <p>b) The used oil shall be sold to registered recyclers only.</p>	<p>a) Solid/Hazardous waste is recycled back into process as per the requirement. Remaining Solid waste is stored properly for sale to authorized customers.</p> <p>b) The used oil is sold to registered recyclers.</p>

5	As proposed, green belt of adequate width and density shall be developed in 1.175 acres out of total 4.7 acres (25%) area to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines.	Green belt of 13 acres is developed and maintained in and around the factory premises, further 7 acres green belt is under development. Green belt on 50 acres of degraded forest land is also developed.
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Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
	<b>GENERAL CONDITIONS:</b>	
1	The project authorities must strictly adhere to all the stipulations made by the MPCB and State Govt.	All the stipulations are complied.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted.
3	The gaseous emissions (SO <sub>2</sub> and NO <sub>x</sub> ) and particulate matters from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system (s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Gaseous emissions are monitored periodically by third party and results are well within the stipulated standards. <b>(Annexure - 1)</b>
4	Ambient air quality monitoring stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM are anticipated in consultation with the State Pollution Control Board. Regular ambient air quality monitoring including RSPM shall be carried out and data submitted to Ministry's Regional Office at Bhopal/MPCB/CPCB.	Ambient air quality monitoring is carried out by third party at various locations periodically. <b>(Annexure - 2)</b>
5	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Ambient noise levels are indigenously checked periodically and results are well within the norms.
6	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodical medical check up is carried out for all employees and Health Register (Form 7) is maintained.
7	The project authorities shall provide adequate funds for	The manufacturing facility is

<b>Sr. No.</b>	<b>Type of Compliance</b>	<b>Status: Complied / Not complied / Not Applicable</b>
	environmental pollution control measures to implement the conditions stipulated by the MoEF as well as State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	covered under the Public Liability Insurance (PLI) Policy under which premium for Environment Relief Fund (ERF) is paid to the Insurance Company. <b>(Annexure - 3)</b>

<b>Sr. No.</b>	<b>Type of Compliance</b>	<b>Status: Complied / Not complied / Not Applicable</b>
8	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 & Handling) Rules, 2003. Authorization from the MPCB shall be obtained for collections/treatment,storage/disposal of hazardous wastes.	Consent to Operate (CTO) for the facility is obtained which is valid upto 30/09/2020, under which Authorization for storage of Hazardous waste is also obtained.
9	The stipulated conditions shall be monitored by the Regional office of this Ministry at Bhopal / MPCB. A six monthly compliance report and the monitored data shall be submitted regularly.	A six monthly compliance report is regularly submitted to MoEF & CC at Nagpur Office & MPCB.
10	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of clearance letter are available with MPCB / Committee and may also be seen at Website of the MoEF at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.	Complied.

F. No. J-11011/481/2007- IA II (I)  
**Government of India**  
**Ministry of Environment and Forests**  
**(I.A. Division)**

**Paryavaran Bhawan**  
**CGO Complex, Lodhi Road**  
**New Delhi – 110 003**

**E-mail : [pb.rastogi@nic.in](mailto:pb.rastogi@nic.in)**  
**Telefax : 011: 2436 7668**

**Dated 5<sup>th</sup> December, 2007**

To,

✓ M/s Deepak Fertilizers & Petrochemicals Corporation Ltd.  
Plot -32, Sector-16, Opp. Modern College  
Vashi, New Mumbai – 400705  
Maharashtra

**E-mail : [Deepak\\_fertilizer@vsnl.com](mailto:Deepak_fertilizer@vsnl.com) ; Fax No. 011- 668 7499**

**Subject : Manufacture of Bentonite-Sulphur-Pastilles (50,000 TPA) at Plot No. K-7, MIDC, Taloja, Raigarh, Maharashtra M/s Deepak Fertilizers & Petrochemicals Corporation Ltd. – Environment clearance reg.**

Sir,

This has reference to your letter no. nil dated 24<sup>th</sup> May, 2007 on the above subject along with Form I, Pre-feasibility Report, draft Term of References and EIA/EMP regarding above mentioned project.

2.0 The proposal was examined and it is noted that proposal is for setting up a Bentonite-Sulphur-Pastilles unit (50,000 TPA) at Plot No. K-7, MIDC, Taloja, Raigarh, Maharashtra. Total land acquired is 4.7 acres. Total cost of the project is Rs. 40.00 Crores.

3.0 Manufacturing process will involve mixing of molten Sulphur and Bentonite clay and will be passed through a special pastillator machine to make pastilles which will be cooled and packed into bags for sale as a fertilizer. Total water requirement for MIDC will be 21 m<sup>3</sup>/day. Insoluble or suspended solids will be separated by decantation and clear liquid will be sent to CETP for further treatment. 90% of which will be recycled back into the process and remaining will be sold as fertilizer to authorized customers.

4.0 No public hearing is required as per the Section (iii), Stage (3), Para (i) (b) of the EIA Notification, 2006 since the unit is located in the notified MIDC area. Consent for Establishment has been accorded by the Maharashtra Pollution Control Board vide letter no. BO/RO Navi-Mumbai/PCI-I/EIC No. 0861-o7/E/CC-199 dated 23<sup>rd</sup> May, 2007.

5.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the EIA Notification, 2006 subject to the compliance of the conditions mentioned below:



#### A. SPECIFIC CONDITIONS:

- i. Adequate chimney height, hoods, exhaust fans, exhaust ducts and scrubbers shall be provided to control emissions from boiler and DG set as per standards / norms. The molten Sulphur tank and mixing tank shall be provided with vents connected to filters to absorb the Sulphur and should be neutralized by using clay to control particulate matter less than  $50 \text{ mg/Nm}^3$  or standards prescribed by the Maharashtra Pollution Control Board whichever are more stringent. Periodic monitoring of vents shall be carried out and reports submitted to the Ministry's Regional Office at Bhopal/MPCB/CPCB.
- ii. High level vents and fume extraction system shall be provided to the molten Sulphur tank and mixing tank to control fugitive emissions.
- iii. Total water requirement from MIDC supply and effluent generation shall not exceed  $31 \text{ m}^3/\text{day}$  and  $7.5 \text{ m}^3/\text{day}$  respectively. No ground water shall be used. 'Permission' for the drawl of  $31 \text{ m}^3/\text{day}$  shall be obtained from the concerned Department. All the effluent containing minor doses of phosphates, biocides, Sulphur dust and Bentonite clay shall be properly treated and clear liquid shall be sent to common effluent treatment plant (CETP) at Taloja for further treatment. Project authorities shall ensure valid "Membership" to CETP. Domestic effluent shall be treated in septic tank followed by soak pit.
- iv. As reflected in the EIA / EMP report, 90 % of the solid waste shall be recycled back into the process and remaining shall be sold as fertilizer to authorized customers. No solid/ hazardous waste shall be disposed off. The used oil shall be sold to registered recyclers only.
- v. As proposed, green belt of adequate width and density shall be developed in 1.175 acres out of total 4.7 acres (25%) area to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.

#### B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the all stipulations made by the Maharashtra Pollution Control Board and State Govt.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The gaseous emissions ( $\text{SO}_2$  and  $\text{NO}_x$ ) and particulate matters from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.



- iv. Ambient air quality monitoring stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM are anticipated in consultation with the State Pollution Control Board. Regular ambient air quality monitoring including RSPM shall be carried out and data submitted to Ministry's Regional Office at Bhopal/MPCB/CPCB.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The project authorities shall provide adequate funds for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.
- viii. 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 Wastes (Management & Handling) Rules, 2003. Authorization from the Gujarat Pollution Control Board shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- ix. The stipulated conditions shall be monitored by the Regional office of this Ministry at Bhopal / Maharashtra Pollution Control Board. A six monthly compliance report and the monitored data shall be submitted to them regularly.
- x. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Maharashtra Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.

6.0 The Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bhopal.

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

8.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.

9.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Amendment Rules, 2003 and the Public Liability Insurance Act, 1991 alongwith their amendments and rules.



(Dr. P. B. Rastogi)  
Additional Director

Copy to:

1. The Secretary, Department of Environment and Forests, Govt. of Maharashtra, Mumbai - 400 001, Maharashtra.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No.3, E - 5, Arera Colony, Bhopal - 462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Shri Chatrapati Shivaji Maharaj Municipal Market Building, 4<sup>th</sup> Floor, Mata Ramabai Ambedaker Road, Mumbai - 400 001, Maharashtra.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.



(Dr. P.B. RASTOGI)  
Additional Director



# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB. : H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF. : 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel. : (022) 25777069 / 70

## TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/10/344	T. C. Date	31/10/2019
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT K-7, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	25/10/2019	Analysis Period	26/10/2019 To 30/10/2019

### SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Batch and Feed Tank ✓
Stack Dimension [mm]	152
Stack Height [Meter]	10
Date of Sample collection	25/10/2019 ✓
Time of Sampling [Hrs]	12:45
Temperature of flue gas [°C]	59
Average flue gas velocity [m/s]	7.9
Average volume of flue gas discharged [Nm <sup>3</sup> /hr]	460

### ANALYSIS REPORT :

Parameters	Units	Results	M.P.C.B. Limits	Test Methods
TPM / SPM	mg/Nm <sup>3</sup>	7.2 ✓	100.0	Laboratory Analytical Techniques / 80 / 2013-14 / CPCB
	Kg/day	0.08		
Sulphur Dioxide	mg/Nm <sup>3</sup>	20.6 ✓	Not Specified	
	Kg/day	0.23		

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

**Note :**

1. The results relate only to the samples tested
2. Test certificate shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.





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OFF. : 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel. : (022) 25777069 / 70

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/01

Test Certificate No.	GA/20/01/113	T. C. Date	14/01/2020
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT K-7, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD		
Letter Ref / Date .	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/01/2020
Sampling Plan	Quarterly	Analysis Period	10/01/2020

### SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Batch and Feed Tank
Stack Dimension [mm]	152
Stack Height [Meter]	10
Date of Sample collection	08/01/2020
Time of Sampling [Hrs]	14:10
Temperature of flue gas [°C]	43
Average flue gas velocity [m/s]	6.1
Average volume of flue gas discharged [Nm <sup>3</sup> /hr]	373

### ANALYSIS REPORT :

Parameters	Units	Results	M.P.C.B. Limits	Sampling & Analysis Methods
TPM / SPM	mg/Nm <sup>3</sup>	9.0	100.0	Laboratory Analytical Techniques / 80 / 2013-14 / CPCB
	Kg/day	0.08		
Sulphur Dioxide	mg/Nm <sup>3</sup>	22.6	Not Specified	
	Kg/day	0.20		

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.



# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB. : H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

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Tel. : (022) 25777069 / 70

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/01

Test Certificate No.	GA/20/01/112	T. C. Date	14/01/2020
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT K-7, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD		
Letter Ref / Date .	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/01/2020
Sampling Plan	Quarterly	Analysis Period	10/01/2020

### SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Pastillator Stack
Stack Dimension [mm]	400
Stack Height [Meter]	10
Date of Sample collection	08/01/2020
Time of Sampling [Hrs]	14:35
Temperature of flue gas [°C]	42
Average flue gas velocity [m/s]	6.9
Average volume of flue gas discharged [Nm <sup>3</sup> /hr]	2954

### ANALYSIS REPORT :

Parameters	Units	Results	M.P.C.B. Limits	Sampling & Analysis Methods
TPM / SPM	mg/Nm <sup>3</sup>	13.7	100.0	Laboratory Analytical Techniques / 80 / 2013-14 / CPCB
	Kg/day	0.97		
Sulphur Dioxide	mg/Nm <sup>3</sup>	22.4	Not Specified	
	Kg/day	1.59		

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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2. Test certificate shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.





# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB. : H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF. : 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel. : (022) 25777069 / 70

## TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/10/343	T. C. Date	31/10/2019
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT K-7, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	25/10/2019	Analysis Period	26/10/2019 To 30/10/2019

### SAMPLING DETAILS - STACK EMISSION

Stack Attached to	Pastillator Stack
Stack Dimension [mm]	400
Stack Height [Meter]	10
Date of Sample collection	25/10/2019
Time of Sampling [Hrs]	12:10
Temperature of flue gas [°C]	51
Average flue gas velocity [m/s]	5.0
Average volume of flue gas discharged [Nm <sup>3</sup> /hr]	2081

### ANALYSIS REPORT :

Parameters	Units	Results	M.P.C.B. Limits	Test Methods
TPM / SPM	mg/Nm³	8.3	100.0	Laboratory Analytical Techniques / 80 / 2013-14 / CPCB
	Kg/day	0.41		
Sulphur Dioxide	mg/Nm³	34.3	Not Specified	
	Kg/day	1.71		

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

**Note :**

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## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB. : H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF. : 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel. : (022) 25777069 / 70

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/01

Test Certificate No.	GA/20/01/114	T. C. Date	16/01/2020
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT K-7, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD		
Letter Ref / Date .	---	Page No.	2 of 1
Sampling Done By	GLPL	Sample Received on	09/01/2020
Sampling Plan	Quarterly	Analysis Period	10/01/2020 To 16/01/2020

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Outside Bensulf Plant K-7			
Date of Sampling	08/01/2020			
Time of Sampling [Hrs]	16:30			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	15	Max.	31
Relative Humidity [%]	Min.	30	Max.	65

### ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM <sub>10</sub>	µg/m <sup>3</sup>	62.5	100.0	NAAQMS/36/2012-2013 Volume 1
PM <sub>2.5</sub>	µg/m <sup>3</sup>	33.9	60.0	NAAQMS/36/2012-2013 Volume 1
SO <sub>2</sub>	µg/m <sup>3</sup>	36.3	80.0	IS 5182 (Part II) 2012
NO <sub>2</sub>	µg/m <sup>3</sup>	35.0	80.0	IS 5182 (Part VI) 2012
CO	mg/m <sup>3</sup>	1.25	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m <sup>3</sup>	0.14	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m <sup>3</sup>	9.7	100.0 for 8 Hrs.	APHA Method 411 3 <sup>rd</sup> Edition
Ammonia	µg/m <sup>3</sup>	12.9	400.0	APHA Method 401 3 <sup>rd</sup> Edition
Benzene	µg/m <sup>3</sup>	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene **	ng/m <sup>3</sup>	< 0.1	1.0	IS 5182 (Part 12 ):2004
Arsenic **	ng/m <sup>3</sup>	< 0.4	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m <sup>3</sup>	10.9	20.0	NAAQMS/36/2012-2013 Volume 1

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

CHECKED BY

#### Note :

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2. Test certificate shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.
6. \*\* - Non Accredited Scope under ISO / IEC 17025 : 2005.



**PUBLIC LIABILITY (ACT) INSURANCE POLICY**

(Under Public Liability Insurance Act 1991)

**POLICY SCHEDULE**

1	Intermediary Details	Agent/Broker Name	Direct
		Agent/Broker License Code	Direct
		Agent/Broker Contact No	NA
2	Proposal Details	Tax Invoice No. & Date	P040419116674 & Apr 01, 2019
		GSTIN/UIN of the Insured	27AACCA5046P2ZC
	Details of previous policy (if renewal)	Previous policy No	171031827120000001
		Date of expiry	Mar 31, 2019
3	Policy Number	171031927120000003	
4	Territory & Jurisdiction	India Only	
5	Name of Insured	SMARTCHEM TECHNOLOGIES LTD	
6	Communication address and Place of Supply	Sai Hira, Survey No 93, Mundhwa, Pune 411036, Maharashtra	
7	Risk Location	Premises owned and occupied by the insured in India	
8	Business	Manufacturing of Ammonia, Methanol, Iso Propyl Alcohol, Propane, Nitric Acid, Ammonium Nitrate, Nitro Phosphate Fertiliser, Sulphur Bentonite Fertiliser, Liquid Carbon Dioxide, Agri business, Trading of Speciality Fertilisers & related products pertaining to Insured's trade	
9	Policy Period	From : Apr 01, 2019 (00.01 hrs) To : March 31, 2020 (23.59 hrs) Both days local standard Time at the address stated above	
10	Turnover for the Policy Period	INR 4,300 Crs.	
11	Indemnity Limit	Any One Accident : INR 50,000,000 Any One Year : INR 150,000,000	
12	Deductible	Nil	
13	Conditions and Exclusion	Subject Otherwise To Terms And Condition Exclusion Of Public Liability (Act) Insurance Policy Wording	
14	Premium Details	Net Premium INR 25,019.00 Add : CGST INR 2,251.50 Add: SSGT INR 2,251.50 Add : ERF Contribution INR 25,019.00 Total Premium INR 54,541.00	
15	Claims Notification address	Reliance General Insurance Co. Ltd. Reliance Centre, 4th Floor, South Wing, Near Prabhat Colony, Santacruz (East), Mumbai – 400055, Maharashtra	
16	Address Of Servicing Office	Reliance general insurance co. Ltd. 135 Tadiwala Road Pushpam Plaza, Near Hotel Nandadeep Pune 411001 Maharashtra Phone: 020-30565149	



17	Address Of Issuing Office	Reliance General Insurance Co. Ltd. Reliance Centre, 4th Floor, South Wing, Near Prabhat Colony, Santacruz (East), Mumbai – 400055, Maharashtra
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Note : In the event of dishonor of cheque, this Policy document automatically stands cancelled from inception, irrespective of whether a separate communication is sent or not and the Policy shall in such event be deemed to be void ab initio without any liability whatsoever accruing on the Insurer.

This document shall be treated as a Tax Invoice as per Rule 9(2) of the Goods and Services Tax Invoice Rules.

GSTIN: 27AABCR6747B1ZG SAC: 997139; Description of services: Other non-life insurance services (excluding reinsurance services)

"Consolidated Stamp duty Paid vide Letter of Authorisation No. CSD/310/2019/383/19 dated 25th January 2019.

\*\* Not Applicable for the State of Jammu & Kashmir"

For any assistance on claims, please contact us on 1800 3009 (toll free) and 022 3989 8282 (local charges apply) or email us at services.rgicl@rcap.co.in

"In case of a renewal, the benefits provided under the policy and/or terms and conditions of the policy including premium rate may be subject to change."

"For resolution of any query or grievance, Insured may contact the respective branch office of the Company or may call at 1800 3009 or may write an email at rgicl.services@relianceada.com. In case the insured is not satisfied with the response of the office, insured may contact the Nodal Grievance Officer of the Company at rgicl.grievances@relianceada.com. In the event of unsatisfactory response from the Nodal Grievance Officer, insured may email to Head Grievance Officer at rgicl.headgrievances@relianceada.com. In the event of unsatisfactory response from the Head Grievance Officer, he/she may, subject to vested jurisdiction, approach the Insurance Ombudsman for the redressal of grievance. Details of the offices of the Insurance Ombudsman are available at IRDAI website www.irda.gov.in or on company website www.reliancegeneral.co.in or on www.gbic.co.in. The insured may also contact the following office of the Insurance Ombudsman within whose territorial jurisdiction the branch or office of the Company is located:"

Office of the Insurance Ombudsman, 3rd Floor, Jeevan Seva Annexe, S. V. Road, Santacruz (W), Mumbai - 400 054.  
Tel.: 022 - 26106552 / 26106960 Fax: 022 - 26106052 Email: bimalokpal.mumbai@gbic.co.in

In witness whereof this policy has been signed at on Pune on Apr 01, 2019

**For and on behalf of  
Reliance General Insurance Company Limited**

**Authorized Signatory**

**PUBLIC LIABILITY (ACT) INSURANCE POLICY**  
**(Under Public Liability Insurance Act 1991)**

**1. OPERATIVE CLAUSE**

Whereas the Insured Owner named in the Schedule hereto and carrying on business described in the said schedule has applied to **RELIANCE GENERAL INSURANCE COMPANY LIMITED** (hereinafter called the Company) for the indemnity hereinafter contained and has made a written proposal and declaration which shall be the basis of this contract and is deemed to be incorporated herein and has paid the premium and statutory contribution towards the Environment Relief Fund as per the provisions of the Public Liability Insurance Act and the rules framed thereunder.

**NOW THIS POLICY WITNESSETH** that subject to the terms, exceptions and conditions contained herein or endorsed hereon, the company will indemnify the insured owner against the statutory liability arising out of accidents occurring during the currency of the Policy due to handling hazardous substances as provided for in the said Act and the Rules framed thereunder.

**2. DEFINITIONS :**

- a) **"ACT"** unless otherwise specifically mentioned shall mean the Public Liability Insurance Act, 1991 as amended from time to time.
- b) **"ACCIDENT"** means an accident involving a fortuitous, sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of or injury to any person or damage to any property but does not include an accident by reason only of war or radioactivity.
- c) **"HANDLING"** in relation to any hazardous substance means the manufacture, processing, treatment, package, storage, transportation by vehicle, use, collection, destruction, conversion, offering for sale, transfer or the like of such hazardous substance.
- d) **"HAZARDOUS SUBSTANCE"** means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified, by notification, by the Central Government :
- e) **"OWNER"** means a person who owns, or has control over handling any hazardous substance at the time of accident and includes :
  - i) in the case of a firm, any of its partners;
  - ii) in the case of an association, any of its members, and
  - iii) in the case of a company, any of its directors, managers, secretaries or other officers who is directly in charge of and is responsible to the company for the conduct of the business of the company
- f) **"TURNOVER"** shall mean
  - i) Manufacturing units – Entire Annual Gross Sales Turnover including all levies and taxes of manufacturing units handling hazardous substances as defined in the PLI Act 1991. For the purpose of this insurance, the term "Units" shall mean all operations being carried out in the manufacturing complex in one location.
  - ii) Godowns/warehouse owners - - Total Annual rental receipts of premises handling hazardous substances as defined in the PLI Act 1991

- iii) Transport Operators - Total Annual freight receipts
- iv) Others - Total Annual gross receipts

### 3. EXCLUSIONS :

This Policy does not cover liability :

1. Arising out of wilful or intentional non-compliance of any statutory provisions
2. In respect of fines, penalties, punitive and/or exemplary damages
3. Arising under any other legislation except in so far as provided for in Section 8, Sub-section (1) & (2) of the Act.
4. In respect of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured Owner's control, care or custody.
5. Directly or indirectly occasioned by happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection or military or usurped power.
6. Directly or indirectly caused by or contributed to by
  - a) ionising radiation or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel.
  - b) The radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

### 4. CONDITIONS :

1. The Insured Owner shall give written notice to the Company as soon as reasonably practicable of any claim made against the Insured Owner or of any specific event or circumstance that may give rise to a claim. The Insured Owner shall immediately give to the Company copies of notice of applications forwarded by the Collector and all such additional information and or assistance that the company may require.
2. No admission, offer, promise or payment shall be made or given by or on behalf of the Insured owner under this policy without the written consent of the Company.
3. The Company shall not be liable for any claim for relief made after five years from the date of occurrence of the accident.
4. The Insured Owner shall keep record of annual turnover, and at the time of renewal of insurance declare such turnover and all other details as may be required by the Company. The Company shall at all reasonable times have full rights to call for and examine such records.
5. If at the time of happening of any accident resulting in a claim under this policy there be any other insurance covering the same liability, then the Company shall not be liable to pay or contribute more than its rateable proportion of such liability.
6. This Policy may be cancelled by the Insured Owner by giving 30 days notice in writing to the company in which event the Company will retain premium at short period scale subject to there not having occurred



an accident during the policy period which may give rise to a claim (s), failing which no refund of premium shall be allowable.

7. This Policy may also be cancelled by the Insurer by giving 30 days notice in writing to the Insured Owner in which event the Company shall be liable to repay on demand a rateable proportion of the premium for the unexpired term from the date of cancellation.
8. If the Company shall disclaim liability to the Insured Owner for any claim hereunder and such claim shall not within 12 calendar months from the date of such disclaimer have been made the subject matter of a suit in a competent court of law, then the claim for all practical purposes shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.
9. The Company shall not be liable to make any payment in respect of any claim if such claim shall be in any manner fraudulent or supported by any person on behalf of the Insured Owner and/or if the insurance has been continued in consequence of any material mis-statement or non-disclosure of any material information by or on behalf of the Insured Owner. In such a case if the Company pays any amount to the claimant due to any statutory provision such amount shall be recoverable from the Insured Owner.
10. The Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been assigned in the Act and the Rules framed thereunder or this Policy shall bear such specific meaning.
11. Any dispute regarding interpretation of the terms, conditions and exceptions of this Policy shall be determined in accordance with the law and practice of "court of competent Jurisdiction within India".

**For and on behalf of  
Reliance General Insurance Company Limited**

**Authorized Signatory**

Attached to and forming part of Policy No: **171031927120000003**

**Annexure – I**

1. Factory - Plot K-1, K-2, K-3, K-4 & K-5. Taloja MIDC Industrial Area, Panvel, Raigad-410 208.
2. Factory - Plot K-6, Taloja MIDC Industrial Area, Taloja, Panvel, Dist: Raigad 410 208
3. Factory - Plot K-7, Taloja MIDC Industrial Area, Taloja, Panvel, Dist: Raigad 410 208
4. Factory - Plot K-8, Taloja MIDC Industrial Area, Taloja, Panvel, Dist: Raigad 410 208
5. N.G. Pipeline - Natural Gas Pipeline from Uran to factory at Taloja
6. Pipeline to JNPT - Pipeline from Service berth at JNPT to Storage Tank at JNPT
7. Tank Farm - JNPT Plot No. 1, Tank Farm Area, Near Ganesh Benzo Plast., JNP Nhavasheva, Navi Mumbai.
8. Corporate Office - Deepak Complex, Opp Gold Course, Yerawada, Pune 411 006
9. Ammonium Nitrate Godown - M/s Balaji Traders, Consignment Agent for Deepak Fertilizers, Survey No - 2/3, 3/3 Town Village - Durgapur, Distt - Dewas -455001, Madhya Pradesh
10. Ammonium Nitrate Godown - M/s Regenesi Industries Private Ltd, Survey No - 50, Bommaramaram Village & Mandal Nalgonda, Distt - 508126, Andhra Pradesh
11. Smartchem Technologies Ltd - Village Ponnada, Etcherala Mandalam, Dist: Srikakulam 532408 A.P.
12. Ammonium Nitrate Godown - Shri R R Agencies, Consignment Agent of Deepak fertilizer S S M E state block No- 60, Sindampalayam, Orajapalayam, Tiruchengode - 637209, Tamil Nadu
13. Ammonium Nitrate Godown - M/s Shree Giriraj EXIM Pvt Ltd, Consignment Agent of Deepak fertilizer, Sr No - 444/1, Town Village - Rampurakala, Tehsil - Raipur Pali, Rajasthan
14. Ammonium Nitrate Godown - M/s Raigad Enterprises, Consignment Agent of Deepak Fertilizers, Gut No - 78, Sr No - 91/2A, Town Village - Wawarle(V), Taluka – Khalapur Ditt:Raigad – Maharashtra
15. Plot No.-D II/7A, Dahej II, Industrial Estate,Taluka-Vagra, Bharuch, Gujarat-392140

**For and on behalf of  
Reliance General Insurance Company Limited**



**Authorized Signatory**