



Ref. No. :SFC/EPC/2.4/100

Date : 14<sup>th</sup> December 2018

The Member Secretary,  
State Level Environment Impact Assessment Authority,  
Room No.-5221, Main Building, Government Secretariat,  
Jaipur-302005

Dear Sir,

**Sub.: Half Yearly Environment Clearance Compliance Report-Period-Apr-Sept.-2018 for Caustic Soda & SBP Expansion Project**

**Ref. : Environment Clearance No FI(4)SEIAA/SEAC-Raj/Sectt./Project/Cat. 8 (b), 'B1' (15054) 16-17 dated 12.07.2017 amended on 23<sup>rd</sup> November 2017**

Dear Sir,

Please find enclosed herewith half yearly environment clearance compliance report under the requirement of clause No. 10 (i) of EIA Notification No. 1533 dated 14<sup>th</sup> September 2006 against above referred environment clearance for above mentioned project.

Hope, you will find the same in order.

Thanking You,

Yours faithfully,

RPS Chauhan  
Vice President (Chlor-Alkai)

C.C. : Regional Office, Ministry of Environment & Forests,  
Kendriya Bhavan, 5<sup>th</sup> Floor, Sector-H, Aliganj,  
LUCKNOW- 226 024.

The Member Secretary,  
Central Pollution Control Board,  
Parivesh Bhawan, CBD-cum-Office Complex,  
East Arjun Nagar, Delhi-110 032 India

The Member Secretary,  
Rajasthan State Pollution Control Board,  
4, Institutional Area Jhalana Doongri, JAIPUR.

In-charge, Central Pollution Control Board,  
Zonal Office (Central),  
3<sup>rd</sup> Floor, Sahkar Bhawan, T.T. Nagar, BHOPAL-462 003.

The Regional Officer, Rajasthan State Pollution Control Board,  
Plot No. : SPL.-2A, Paryavaran Marg, Road No.-6, Indraprastha Industrial Area, Kota

SHRIRAM VINYL & CHEMICAL INDUSTRIES

Shriram Nagar, Kota, Rajasthan – 324004 Tel: +91 744 2480991-996, +91 744 2480901-04, +91 744 2480011-17 Fax +91 744 2480296  
Regd. Office: DCM Shriram Ltd., 1<sup>st</sup> Floor, Kanchenjunga Building, 18 Barakhamba Road, New Delhi-110 001 India

www.dcmshriram.com

CIN No. L74899DL1989PLC034923 (Formerly DCM Shriram Consolidated Ltd.)


## Shriram Vinyl & Chemical Industries, : Kota


### (A Unit of DCM Shriram Ltd.)


#### Compliance Report of Environmental Clearance No. Fl(4)/SEIAA/SEAC- Raj/Sectt/Project/Cat.8(b) 'B1' (15054)/16-17 dated 12<sup>th</sup> July 2017 and amended on 23<sup>rd</sup> November 2017



Category – 4(d)-Chlor-Alkali Industry, Cat.-B1


<b>PART A : SPECIFIC CONDITIONS</b>
<b>1. CONSTRUCTION PHASE</b>

S. No.	Conditions	Compliance Status																									
1	The production capacity of the industry shall be limited to production of following products :	Noted																									
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<b>A. Caustic Soda Plant (Expansion)</b>																											
1.	Caustic Soda (100 %) Lye/Flakes	1,13,750	76,250	1,90,000	9260	9943	9303	9766	6672	11678																	
	By-Product																										
1.1	Chlorine or Hydrochloric Acid	1.00 EQ. TO NaOH	1.00 EQ. TO NaOH	1.00 EQ. TO NaOH	1.00 Eq.	1.00 Eq.	1.00 Eq.	1.00 Eq.	1.00 Eq.	1.00 Eq.																	
1.2	Dilute Sulphuric Acid (72%)	2,450	1,000	3,450	108	96	126	159	79	115																	
1.3	Sodium Hypo Chlorite	3,500	2,500	6,000	115	162	120	200	84	136																	
<b>B. Stable Bleaching Powder (Expansion)</b>																											
1	Stable Bleaching Powder	21600	20400	42000	1445	1712	1643	1612	1170	1640																	
	By- Product																										
1.1	Sodium Hypo Chlorite (10 %)	2,880	2,720	5,600	As above under item No. 1.3																						
<b>C. Hydrogen Bottling (No Expansion)</b>																											
1	Hydrogen Bottling	325	Nil	325	9.39	6.70	7.99	9.88	644	13.07																	
2	The PP shall ensure the implementation of the commitments in respect of addressing Environmental and Social issues. The PP Shall ensure providing 33 % area of the total plant area under green cover.					Being complied with.  Out of 791 Acres of Land at DCM Shriram Kota complex. The total 261.8 Acres area is covered with green belt (~ 33.1%).																					
																											
3.	That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/Unit/project					Statutory condition, complied with.																					


S. No.	Conditions	Compliance Status																		
	proponent.																			
4.	As committed, the PP shall earmark and spend an amount of Rs. 121.00 lacs towards capital cost and 10 lac recurring cost on various environmental protection measures and implementation of various activities under Environmental Management Plan.	<p>Total INR 125.08 Lacs spent towards capital investment for Environmental Protection Measures against proposed INR 121.0 Lacs. Recurring cost is in progress and shall be compiled annually in the month of April.</p>  <p>Commissioning of RO Plant with Tertiary Treatment</p>																		
5.	The PP shall earmark and spend an amount of Rs. 225 Lacs under CSR (spent over 3 years as Rs. 75 Lacs each year). As per the proposal submitted and the detailed action plan be submitted to RSPCB / SEIAA at the time seeking CTE.	<p>Noted Total amount spent during 2016-17 &amp; 2017-18 is approx. 362 Lacs. The work on CSR activities are in progress as per the plan. However, , the spent amount is compiled annually.</p>																		
6.	An amount of Rs. 10 Lacs/year shall be spent during construction phase of the expansion project to improve the living conditions of the labor at site and provide health facility, sanitation facility, fuel for cooking along with safe drinking water, medical camps and toilets for women, crèche for infants.	<p><b>Complied with</b></p> <p>Total expenditure carried out about INR 8.4 Lacs for providing sanitation &amp; toilets and safe drinking water facility. The balance expenditure made in regular health check-up during project execution phase.</p> <table border="1"> <tr> <td>Sanitation &amp; Toilets</td> <td>INR 6.40 Lacs</td> </tr> <tr> <td>Safe Drinking Water Facility</td> <td>INR 2.0 Lacs</td> </tr> <tr> <td>Regular Health Check-up</td> <td>INR 1.6 Lacs</td> </tr> <tr> <td><b>Total (INR)</b></td> <td><b>10.0 Lacs</b></td> </tr> </table>	Sanitation & Toilets	INR 6.40 Lacs	Safe Drinking Water Facility	INR 2.0 Lacs	Regular Health Check-up	INR 1.6 Lacs	<b>Total (INR)</b>	<b>10.0 Lacs</b>										
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7.	The total water consumption shall be limited to 2,985 KLD. For withdrawing ground water from bore wells, necessary permission from CGWA should be taken.	<p><b>Complied With</b></p> <p>No ground water being withdrawal, hence CGWA permission is not required. Monthly (Avg.) water consumption are summarized as under :-</p> <p style="text-align: center;"><b>Average Water Consumption (KLD)</b></p> <table border="1"> <tr> <td>1</td> <td>Apr.-18</td> <td>2000</td> </tr> <tr> <td>2</td> <td>May-18</td> <td>2161</td> </tr> <tr> <td>3</td> <td>Jun-18</td> <td>2239</td> </tr> <tr> <td>4</td> <td>Jul-18</td> <td>2369</td> </tr> <tr> <td>5</td> <td>Aug-18</td> <td>2054</td> </tr> <tr> <td>6</td> <td>Sept-18</td> <td>2411</td> </tr> </table>	1	Apr.-18	2000	2	May-18	2161	3	Jun-18	2239	4	Jul-18	2369	5	Aug-18	2054	6	Sept-18	2411
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8.	The PP shall achieve the stack emission standards and ambient air standards as notified under E.P. Rules 1986 and its subsequent amendments.	<p><b>Complied with.</b></p> <p>Online emission monitoring system provided with real time data transfer to RSPCB/CPCB servers in addition to quarterly monitoring are being carried out by MoEF approved laboratory. The detailed monitoring reports are attached herewith <b>Annexure-1 &amp; Annexure-2.</b></p>																		




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S. No.	Conditions	Compliance Status
		 <p data-bbox="1036 558 1464 583">Roof top solar plant in the Guest House</p>
10.	Provision of solar water heating / chilling /street lighting etc shall be explored and implemented.	<p data-bbox="982 590 1154 615"><b>Complied with.</b></p> <p data-bbox="982 653 1390 678">Street Solar lights have been provided.</p> 
11.	<p data-bbox="250 1039 951 1121">The PP would provide proposal for a peizometric well at suitable locations in the industry and quarterly monitoring of this well water would be done.</p> <p data-bbox="250 1159 951 1220">RSPCB shall monitor the sample of water from this well at the time of monitoring for compliance of CTO/CTE.</p>	<p data-bbox="982 1039 1146 1064"><b>Complied with</b></p> <p data-bbox="982 1102 1529 1184">No ground water being extracted for utilization in the plant. Hence, no impact on ground water is envisaged.</p> <p data-bbox="982 1222 1529 1304">However, a peizometric bore well is already available at down elevation. The analysis report is attached herewith as <b>Annexure-3</b></p>
12.	The height of the stack for disbursement of the process emissions shall not be less than 30.00 Mtrs. from ground level.	<p data-bbox="982 1346 1146 1371"><b>Complied with</b></p> <p data-bbox="982 1409 1503 1465">30 M stack height provided for Flaker Plant, HCl Scrubber Vent &amp; Hypo Tower Vent.</p>
13.	The PP shall operate its unit with prior Consent to Establish and Consent to Operate under the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.	<p data-bbox="982 1472 1138 1497"><b>Complied with</b></p> <p data-bbox="982 1535 1529 1707">Consent to Establish for SBP &amp; Caustic Soda Plant have been obtained on 25.01.2018 &amp; 25.05.2018, respectively and Consent to Operate for SBP &amp; Caustic Soda Plant have been obtained on 26.09.2018 &amp; 22.10.2018, respectively. The copies of same are attached as <b>Annexure-4 to 7.</b></p>
14.	The particulate matter and gaseous emissions (HCl & Cl <sub>2</sub> ) from various processes/units/storages shall conform to the standards prescribed by the State Pollution Control Board/ Central Pollution Control Board or under the Environment (Protection) Rules 86 from time to time.	<p data-bbox="982 1713 1146 1738"><b>Complied with</b></p> <p data-bbox="982 1776 1529 1894">All applicable parameters being monitored and maintained within prescribed norms. The detailed monitoring reports are attached herewith <b>Annexure-1.</b></p>


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15.	At no time, the emissions shall go beyond the prescribed standards. In the event of failures of any pollution control system adopted by the units, the unit shall immediately put off operation and shall not restart until the control measures are rectified to achieve the desired efficiency.	Arrangement has been provided & being complied with.																														
16.	Ambient air quantity monitoring stations shall be set up in the down wind direction as well as where maximum ground level concentration of PM <sub>10</sub> & PM <sub>2.5</sub> , SO <sub>x</sub> , NO <sub>x</sub> , CO (Total) is anticipated in consultation with Rajasthan State Pollution Control Board.	<p><b>Complied with.</b></p> <p>4 Nos. of AAQM stations have been set-up in DCM Shriram Complex, Kota, in consultation with RO, RSPCB, Kota. Approval for location of AAQM station was issued by RSPSB <b>vide letter No. RPCB/RO Kota/K-701/3083 dated 05.01.2012.</b> The location plan is attached herewith as <b>Annexure-8.</b></p>																														
17.	The project proponent shall carry out regular monitoring of air emissions of HCl, Cl <sub>2</sub> etc. (at source, work environment and ambient air) and assessment of performance of Air pollution control arrangements.	<p><b>Complied with.</b></p> <p>Online emission monitoring system provided with real time data transfer to RSPCB/CPCB servers in addition to quarterly monitoring are being carried out by MoEF approved laboratory. The detailed monitoring reports are attached herewith <b>Annexure-1 &amp; Annexure-2.</b></p>  <table border="1"> <thead> <tr> <th colspan="6"><b>Ambient Air Quality Monitoring</b></th> </tr> <tr> <th>Parameter</th> <th>Near PVC Plant</th> <th>Near Gail Office</th> <th>Near Railway Siding</th> <th>Near Material Gate</th> <th>Norms</th> </tr> </thead> <tbody> <tr> <td>PM<sub>10</sub> (µg/m<sup>3</sup>)</td> <td align="center">81.6</td> <td align="center">84.0</td> <td align="center">86.4</td> <td align="center">88.9</td> <td align="center">100</td> </tr> <tr> <td>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</td> <td align="center">38.8</td> <td align="center">42.8</td> <td align="center">43.0</td> <td align="center">46.8</td> <td align="center">60</td> </tr> <tr> <td>SO<sub>2</sub> (µg/m<sup>3</sup>)</td> <td align="center">11.65</td> <td align="center">13.2</td> <td align="center">15.6</td> <td align="center">15.4</td> <td align="center">80</td> </tr> </tbody> </table>	<b>Ambient Air Quality Monitoring</b>						Parameter	Near PVC Plant	Near Gail Office	Near Railway Siding	Near Material Gate	Norms	PM <sub>10</sub> (µg/m <sup>3</sup> )	81.6	84.0	86.4	88.9	100	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	38.8	42.8	43.0	46.8	60	SO <sub>2</sub> (µg/m <sup>3</sup> )	11.65	13.2	15.6	15.4	80
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S. No.	Conditions	Compliance Status					
		NOx (µg/m3)	29.2	29.9	30.5	30.1	80
		CO (mg/m3)	0.60	0.79	0.83	0.69	4.0
		<b>Stack Emission Monitoring (mg/Nm3)</b>					
		Parameter	Fusion House	HCl Scrubber Vent	Hypo Tower Vent		
		PM	19.24	-	-		
		HCl	-	5.0	-		
		Chlorine	-	-	3.75		
18.	Portholes and sampling facilities shall be provided for the stacks emissions monitoring as per the CPCB guidelines. Stack emissions shall be monitored in consultation with RPCB.	<p><b>Complied with.</b></p> <p>Portholes and sampling facilities have been provided as per CPCB guidelines and Stack emissions are being monitored in consultation with RPCB. The last emission monitoring have been carried out by RSPCB laboratory on 12<sup>th</sup> September 2018. The reported results as under :</p>					
		Location	Parameter	Values (mg/Nm3)	Norms (mg/Nm3)		
		HCL Tail Gas Tower Vent	HCl	12.17	32		
		Hypo Tower Vent	Chlorine	4.73	12		
		Fusion* House	PM	19.24	100		
		* Monitoring carried out by MoEF Approved Laboratory					
19.	The PP shall draw the Safety Health & Environment (SHE) Plan and submit to RPCB.	<p><b>Complied with</b></p> <p>The detailed annual safety plan for the period 2018-19 is attached as <b>Annexure-9</b></p>					
20.	Data on ambient air quality and stack emissions shall be submitted to RPCB, once in six months carried out by MoEF / NABL / CPCB / Govt. approved lab.	<p><b>Complied with</b></p> <p>Quarterly AAQ &amp; Stack Emissions Monitoring are being carried out by RPCB/MoEF approved laboratory. The last monitoring carried out by RSPCB laboratory during 30<sup>th</sup> Aug. 2018 &amp; 12<sup>th</sup> September 2018. All the values reported vide letter dated 16<sup>th</sup> Oct. 2018 were well within the prescribed norms.</p>					
		Location	Parameter	Values (mg/Nm3)	Norms (mg/Nm3)		
		HCL Tail Gas Tower Vent	HCl	12.17	32		
		Hypo Tower Vent	Chlorine	4.73	12		
		<b>Ambient Air Quality Monitoring</b>					
		Parameter	Near PVC Plant	Near Gail Office	Near Railway Siding	Near Material Gate	Norms

S. No.	Conditions	Compliance Status					
		PM <sub>10</sub> (µg/m <sup>3</sup> )	95.0	74.0	81.0	87.0	100
		SO <sub>2</sub> (µg/m <sup>3</sup> )	2.81	3.67	5.67	6.59	80
		NO <sub>x</sub> (µg/m <sup>3</sup> )	7.36	8.61	9.34	10.13	80
		Monitoring carried out by MoEF approved laboratory during 3 <sup>rd</sup> to 5 <sup>th</sup> December 2018. The monitoring reports are attached herewith as <b>Annexure-1 &amp; Annexure-2.</b>					
21.	The PP shall provide separate drainage and outlets with the precaution that the storm water shall not come into contact with waste sludge.	<b>Complied with</b>  Arrangement has been provided & maintained.					
22.	The unit shall obtain proper authorization from Rajasthan State Pollution Control Board, if it generates any waste which falls under the purview of HWMHR- 2008.	Complied with.  Combined authorization for DCM Shriram Complex, Kota has been obtained covering applicable hazardous waste of Chlor-Alkali plant waste under HWMHR-2016 and same is valid till 30.11.2021. The copy of the authorization is attached herewith as <b>Annexure-10.</b>					
23.	Handling, manufacture, storage and transportation of Hazardous chemicals shall be in accordance with the Manufacture, Storage, and Import of Hazardous chemicals Rules, 1989 (amended till date).	Being complied with.					
24.	Adequate measures for the control of noise shall be taken so as to keep the noise levels below 85 dB(A) in the work environment. Persons working near the machines shall be provided well-designed ear muffs/plugs and other personnel protective equipments.	Complied with.  Work environment noise level is maintained below 85 dB(A). However, Ear muffs/plugs and other PPEs are provided to persons working near the noise machine area. The latest noise level in the work environment are summarized as under:					
		<b>S. No.</b>	<b>Location</b>	<b>Noise level (dB(A))</b>			
		1	Cell House Area	65			
		2	Cell House Control Room	61			
		3	Packing Area	72			
		4	HCl Control Room	67			
		5	Chlorine Section- Operator Cabin	78			
		6	Chlorine Bottling Area	67			
		7	Laboratory	72			
							

S. No.	Conditions	Compliance Status
		
25.	<p>Suitable alarm system and standard procedure for transmitting the information on the occurrence of an accident to the proper focal point shall be established.</p>	<p>Alarm system and standard procedure have been established &amp; maintained.</p> 
26.	<p>Efforts shall be made to increase green belt all around the premises. Native plant species shall be selected for this purpose in consultation with the local Forest Department. A green belt development plan be prepared and implemented so as to cover at least 33 % area of the plot size.</p>	<p>Out of 791 Acres of Land at DCM Shriram Kota complex. The total 261.8 Acres area is covered with green belt (~ 33.1%).</p> 

S. No.	Conditions	Compliance Status																																																																																																
		<p style="text-align: center;"><b>Plants-Species Type</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S No</th> <th style="width: 95%;">Type of tree plants</th> </tr> </thead> <tbody> <tr><td>1</td><td>NEEM</td></tr> <tr><td>2</td><td>MAULSARI</td></tr> <tr><td>3</td><td>AMALTAS</td></tr> <tr><td>4</td><td>KARANGE</td></tr> <tr><td>5</td><td>KACHNAR</td></tr> <tr><td>6</td><td>MANGO</td></tr> <tr><td>7</td><td>PIPPLE</td></tr> <tr><td>8</td><td>SEESAM</td></tr> <tr><td>9</td><td>BARGAD</td></tr> <tr><td>10</td><td>LEMON</td></tr> <tr><td>11</td><td>GUAVA</td></tr> <tr><td>12</td><td>EUCALIPTIS</td></tr> <tr><td>13</td><td>JAMUN</td></tr> <tr><td>14</td><td>MELBERRY</td></tr> <tr><td>15</td><td>CASIA SYAMA</td></tr> <tr><td>16</td><td>GULMOHAR</td></tr> <tr><td>17</td><td>ASHOKA</td></tr> <tr><td>18</td><td>BOTTEL PALM</td></tr> <tr><td>19</td><td>CHINA PALM</td></tr> <tr><td>20</td><td>CHARREL</td></tr> <tr><td>21</td><td>NARIUM</td></tr> <tr><td>22</td><td>AONLA</td></tr> <tr><td>23</td><td>CHEERAS</td></tr> <tr><td>24</td><td>GULLAR</td></tr> <tr><td>25</td><td>DHONKARA</td></tr> <tr><td>26</td><td>ADAK CHANDAN</td></tr> <tr><td>27</td><td>ARESTROMIA</td></tr> <tr><td>28</td><td>POPPLER</td></tr> <tr><td>29</td><td>TEAK</td></tr> <tr><td>30</td><td>SENJANA</td></tr> <tr><td>31</td><td>SILVER OAK</td></tr> <tr><td>32</td><td>MAHUA</td></tr> <tr><td>33</td><td>RUBBER PLANT</td></tr> <tr><td>34</td><td>KIKKER</td></tr> <tr><td>35</td><td>SEERUS</td></tr> <tr><td>36</td><td>KESIA RENJARA</td></tr> <tr><td>37</td><td>LASODA</td></tr> <tr><td>38</td><td>IMALI</td></tr> <tr><td>39</td><td>SEEMAL</td></tr> <tr><td>40</td><td>JEKAYRANDA</td></tr> <tr><td>41</td><td>PALAS</td></tr> <tr><td>42</td><td>MEETHA NEEM</td></tr> <tr><td>43</td><td>KHENJARA</td></tr> <tr><td>44</td><td>BEER</td></tr> <tr><td>45</td><td>KHER</td></tr> <tr><td>46</td><td>ARJUN</td></tr> <tr><td>47</td><td>BABOOL</td></tr> </tbody> </table>	S No	Type of tree plants	1	NEEM	2	MAULSARI	3	AMALTAS	4	KARANGE	5	KACHNAR	6	MANGO	7	PIPPLE	8	SEESAM	9	BARGAD	10	LEMON	11	GUAVA	12	EUCALIPTIS	13	JAMUN	14	MELBERRY	15	CASIA SYAMA	16	GULMOHAR	17	ASHOKA	18	BOTTEL PALM	19	CHINA PALM	20	CHARREL	21	NARIUM	22	AONLA	23	CHEERAS	24	GULLAR	25	DHONKARA	26	ADAK CHANDAN	27	ARESTROMIA	28	POPPLER	29	TEAK	30	SENJANA	31	SILVER OAK	32	MAHUA	33	RUBBER PLANT	34	KIKKER	35	SEERUS	36	KESIA RENJARA	37	LASODA	38	IMALI	39	SEEMAL	40	JEKAYRANDA	41	PALAS	42	MEETHA NEEM	43	KHENJARA	44	BEER	45	KHER	46	ARJUN	47	BABOOL
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27.	A qualified person in the filed of environment of separate Environment Management Cell to be established to implement and carry out various functions is set up under the control of a Seniors Executive who will report directly to the head of the project.	<p>Well equipped central Environment Management Cell is available with proper organization structure with reporting to resident head.</p> 																																																																																																
28.	The PP will ensure that no employee or worker remains on duty within the plant premises for more than 8 hours per day in one stretch in normal conditions. However based on plant operation and maintenance tasks, overtime can be provided as per the Rajasthan Factories rules for personnel deployed for more than 8 hours.	Being complied with.																																																																																																

S. No.	Conditions	Compliance Status
29.	The PP shall ensure taking necessary steps on urgent basis to improve the living conditions of the labour at the site and provide health facility, sanitation facility, fuel for cooking, along with safe drinking water, medical camps, and toilets for women, crèche for infants.	Being complied with.
30.	The funds earmarked for the environmental protection measures shall be kept in separate account and shall not be diverted for other purposes and year wise expenditure shall be reported to the Rajasthan State Pollution Control Board under the rules prescribed for environmental audit.	<p>Being complied with.</p> <p>The reported expenditure for period 2017-18 under the rules prescribed for Environment audit (form V) are as under :</p> <p>Capital Exp.: 363.3 Lac O&amp;M Exp. : 65 Lacs</p>
31.	The PP shall ensure that, the EC letter as well as the status of the compliance of EC conditions and the monitoring data are placed on company's website and displayed at the project site.	<p>Being complied with.</p>  <p>The screenshot shows a webpage with a navigation menu (Home, Business, Other Key Business, Other Area) and a main content area titled 'Caustic Soda, Chlorine and Hydrogen'. The text describes the company's commitment to environmental safety and lists various compliance reports from the State Pollution Control Board (SPCB) and the National Green Tribunal (NGT) regarding the plant's operations and environmental impact.</p>
32.	The SEIAA, Rajasthan reserve the right to add new conditions modify/annual any condition and/or to revoke the clearance if implementation of any of the aforesaid condition/other stipulations imposed by the competent authorities is not satisfactory. Six monthly compliance status reports on project along with the implementation of environmental measures shall be submitted to MoEF, regional Office, Lucknow and RPCB and SEIAA, Raj.	<p>Noted</p> <p>Being complied with. Last six monthly compliance report sent to the prescribed authority on 20<sup>th</sup> June 2018.</p>
33.	The Environmental clearance is subject to the condition that PP shall obtain prior clearance from forestry and wildlife angle including clearance from the standing committee of the National Board for Wild life as applicable. Further , it is categorically stated that grant of environmental clearance does not necessarily imply that forestry and wild life clearance shall be granted to the project and that their proposal for forestry and wildlife clearance will be considered by the respective authorities on their merits and decision taken. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from forestry and wild life angle shall be entirely at the cost and risk of the project proponent and Authority of Ministry of Environment & Forests shall not be responsible in this regard in any manner.	<p>Noted</p> <p>(Applied for NBWL on 6<sup>th</sup> July 2017 clearance )</p> <p>Dy. Conservator of Forest-Wildlife with team has inspected the site on 2<sup>nd</sup> December 2017 and forwarded recommendation to State Committee of Wildlife.</p> <p>The proposal has been approved by State wild life standing committee/state wild life board and forwarded to NBWL for final approval.</p>

S. No.	Conditions	Compliance Status
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S. No.	Conditions	Compliance Status
<b>B</b>	<b>GENERAL CONDITIONS</b>	
1.	The environment safe guards contained in Form 1-A shall be implemented in latter and sprit.	Being complied with
2.	Six monthly monitoring reports shall be submitted to SEIAA, Rajasthan and Rajasthan State Pollution Control Board.	Being complied with. Last six monthly compliance report sent to the prescribed authority on 20 <sup>th</sup> June 2018.
3.	Officials of the RPCB, who would be monitoring the implementation of environmental safe guards, shall be given full cooperation facilities and documents/ data by the PP, during their inspection. A complete set of the documents submitted to SEIAA, Rajasthan shall be forwarded in the DoE, Rajasthan and Rajasthan Sate Pollution Control Board.	Being complied with.
4.	In case of any change(s) in the scope of the project, the PP requires appraisal SEIAA/SEAC, Rajasthan.	Noted
5.	The SEIAA/SEAC, Rajasthan reserves the right to add additional safe guard measures subsequently , if found necessary , and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act-1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
6.	All the other statutory clearance such as the approvals for storage of diesel from the chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild life (protection) Act, 1972 etc. shall be obtained as may be applicable., by PP from the competent authority.	Applicable clearance/approvals have been obtained.
7.	The pp Shall ensure advertising in at least two local news papers widely circulated in the region one of which shall be in vernacular language that, the project has been accorded environmental clearance and copies of the clearance letters are available with SEIAA, Rajasthan and the Rajasthan State Pollution Control Board and may also be seen on the website of the Board at <a href="http://www.rpcb.nic.in">www.rpcb.nic.in</a> . The advertisement shall be made within 7 (seven) days from the date of issue of the environmental clearance and a copy shall be forwarded to the SEIAA, Rajasthan and Regional Office , Jaipur (S) of the Board.	Published on 19 <sup>th</sup> July in Rajasthan Patrika & Dainik Bhaskar.
8.	These stipulations would also be enforced amongst the others under the provisions of Water (prevention and Control of Pollution) Act, 1974 the Air(Prevention and Control of Pollution) Act, 1981, The Environment (Protection) Act, 1986 The Public Liability (Insurance) Act, 1991 and EIA Notification 06.	Noted
9.	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the proponent, if it is found that construction of the project has been started without obtaining environmental clearance.	Noted
10.	Environment clearance is subject to final order the Honb'le Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No. 460 of the year 2004 as may be applicable to this project.	Noted  (Applied for NBWL on 6 <sup>th</sup> July 2017 clearance )  Dy. Conservator of Forest-Wildlife with team has inspected the site on 2 <sup>nd</sup> December 2017 and forwarded recommendation to State

S. No.	Conditions	Compliance Status
		<p>Committee of Wildlife.</p> <p>The proposal has been approved by State wild life standing committee/state wild life board and forwarded to NBWL for final approval.</p>
11.	<p>The Environmental clearance is subject to the specific condition that PP shall obtain prior clearance from forestry and wildlife angle including clearance from the standing committee of the National Board for Wild life as applicable. Further , it is categorically stated that grant of environmental clearance does not necessarily imply that forestry and wild life clearance shall be granted to the project and that their proposal for forestry and wildlife clearance will be considered by the respective authorities on their merits and decision taken. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from forestry and wild life angle shall be entirely at the cost and risk of the project proponent and Authority of Ministry of Environment &amp; Forests shall not be responsible in this regard in any manner.</p>	<p>Noted</p> <p>(Applied for NBWL on 6<sup>th</sup> July 2017 clearance )</p> <p>Dy. Conservator of Forest-Wildlife with team has inspected the site on 2<sup>nd</sup> December 2017 and forwarded recommendation to State Committee of Wildlife.</p> <p>The proposal has been approved by State wild life standing committee/state wild life board and forwarded to NBWL for final approval.</p>

Stack Emission Monitoring

# Vardan EnviroLab

Laboratory: Samaspur, Sector-51, Opp. Amity School Gurugram - 122001 (Haryana)  
 Regd. Office: D-142, Sushant Lok - III, Sector - 57, Gurugram - 122003 (Haryana)  
 MoEF & CC Recognized | HSPCB & RSPCB Approved | ISO 9001|ISO 14001|OHSAS 18001

## Test Report

Sample Number:	VEL/DCM/ST/07	Report No.:	VEL/DCM/ST/1812/07007
Name & Address of Party:	M/s DCM Shriram Ltd. Shriram Nagar, Kota, Rajasthan- 324004 (India)	Format No.:	5.10 F-01
		Party Reference No.:	NIL
Receipt Date:	07/12/2018	Reporting Date:	12/12/2018
Sample Description :	STACK EMISSION MONITORING	Period of Analysis:	07-12/12/2018

Sample Collected	: Vardan EnviroLab Team
Date of Sampling	: 05/12/2018 & 13:00 Hrs to 14:17 Hrs
Stack Location	: Fusion House stack (Caustic soda)
Air Pollution Control Device Used	: Adequate Stack Height
Sampling duration (Minutes)	: 77
Meteorological Condition	: Clear Sky
Stack Diameter	: 1.0 m
Stack Height	: 30.0 m
Instrument calibration status	: Calibrated
Ambient Temperature - Ta (°C)	: 27.3
Temperature of Stack Gases - Ts (°C)	: 185.0
Velocity of Stack Gases (m/sec.)	: 10.38
Flow rate of PM (LPM)	: 13.0
Sampling condition	: Isokinetic
Protocol used	: IS-11255 & CPCB Guidelines

## RESULTS

S. No.	Parameter	Protocol	Units	Results
1.	Particulate Matter (PM)	IS 11255 (P-1) Reaffirmed 2003	mg/Nm <sup>3</sup>	19.24

*Shishu*  
(Tested By)

*Sinm*  
(Checked By)



NOTE: a) The results listed refer only to the tested samples & applicable parameters  
 b) Total liabilities of our lab will be restricted to the invoice amount only  
 c) The sample will be destroyed after retention time unless otherwise specified  
 d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Tel: 0124-4291036, 8588859161, 9971684812 | E-mail: lab@vardanenvirolab.com | www.vardan.co.in



# Vardan EnviroLab

Laboratory: Samaspur, Sector-51, Opp. Amity School Gurugram - 122001 (Haryana)  
Regd. Office: D-142, Sushant Lok - III, Sector - 57, Gurugram - 122003 (Haryana)  
MoEF & CC Recognized | HSPCB & RSPCB Approved | ISO 9001|ISO 14001|OHSAS 18001

## Test Report

Sample Number:	VEL/DCM/ST/16	Report No.:	VEL/DCM/ST/1812/07016
Name & Address of Party:	M/s DCM Shriram Ltd. Shriram Nagar, Kota, Rajasthan- 324004 (India)	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	12/12/2018
Receipt Date:	07/12/2018	Period of Analysis:	07-12/12/2018
Sample Description :	STACK EMISSION MONITORING		

Sample Collected	: Vardan EnviroLab Team
Date of Sampling	: 05/12/2018 & 14:30 Hrs to 15:35 Hrs
Stack Location	: HCL scrubber Vent caustic soda plant(HCL tail Gas)
Air Pollution Control Device Used	: HCL scrubber
Sampling duration (Minutes)	: 65.0
Meteorological Condition	: Clear Sky
Stack Diameter	: 0.20 m
Stack Height	: 30.0 m
Instrument calibration status	: Calibrated
Ambient Temperature - Ta (°C)	: 26.0
Temperature of Stack Gases - Ts (°C)	: 30.0
Velocity of Stack Gases (m/sec.)	: ---
Flow rate of Gas (LPM)	: 2.0
Sampling condition	: Isokinetic
Protocol used	: IS-11255 & CPCB Guidelines

## RESULTS

S. No.	Parameter	Protocol	Units	Results
1.	HCL	APHA - 3 <sup>rd</sup> Edition	mg/Nm <sup>3</sup>	5.0

  
(Tested By)

  
(Checked By)



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Laboratory: Samaspur, Sector-51, Opp. Amity School Gurugram - 122001 (Haryana)  
Regd. Office: D-142, Sushant Lok - III, Sector - 57, Gurugram - 122003 (Haryana)  
MoEF & CC Recognized | HSPCB & RSPCB Approved | ISO 9001|ISO 14001|OHSAS 18001

## Test Report

Sample Number: VEL/DCM/ST/17  
Name & Address of Party: M/s DCM Shriram Ltd.  
Shriram Nagar, Kota, Rajasthan-324004 (India)  
Report No.: VEL/DCM/ST/1812/07017  
Format No.: 5.10 F-01  
Party Reference No.: NIL  
Reporting Date: 12/12/2018  
Receipt Date: 07/12/2018  
Sample Description: STACK EMISSION MONITORING  
Period of Analysis: 07-12/2018

Sample Collected : Vardan EnviroLab Team  
Date of Sampling : 05/12/2018 & 15:45 Hrs to 16:53 Hrs  
Stack Location : Hypo Tower Vent of caustic soda plant  
Air Pollution Control Device Used : Scrubber  
Sampling duration (Minutes) : 68.0  
Meteorological Condition : Clear Sky  
Stack Diameter : 0.20 m  
Stack Height : 30.0 m  
Instrument calibration status : Calibrated  
Ambient Temperature - Ta (°C) : 25.0  
Temperature of Stack Gases - Ts (°C) : 36.2  
Velocity of Stack Gases (m/sec.) : ---  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : Isokinetic  
Protocol used : IS-11255 & CPCB Guidelines

## RESULTS

S. No.	Parameter	Protocol	Units	Results
1.	Chloride (Cl <sub>2</sub> )	APHA 3 <sup>rd</sup> Edition	mg/Nm <sup>3</sup>	3.75

(Tested By)

(Checked By)



NOTE: a) The results listed refer only to the tested samples & applicable parameters  
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Ambient Air Quality Monitoring

# Vardan EnviroLab

Laboratory: Samaspur, Sector-51, Opp. Amity School Gurugram - 122001 (Haryana)  
 Regd. Office: D-142, Sushant Lok - III, Sector - 57, Gurugram - 122003 (Haryana)  
 MoEF & CC Recognized | HSPCB & RSPCB Approved | ISO 9001|ISO 14001|OHSAS 18001

## Test Report

Sample Number:	VEL/DCM/A/01	Report No.:	VEL/DCM/A/1812/07001
Name & Address of Party:	M/s DCM Shriram Ltd. Shriram Nagar, Kota, Rajasthan- 324004 (India)	Format No.:	5.10 F-01
Receipt Date:	07/12/2018	Party Reference No.:	NIL
Sample Description :	AMBIENT AIR QUALITY MONITORING	Reporting Date:	12/12/2018
		Period of Analysis:	07-12/12/2018

### General Information:-

Client Representative	: Mr. Vinay Kumar Singh
Sample collected by	: Vardan EnviroLab Team
Sampling Location	: Near PVC Plant
Instrument Used	: VEL/RDS/01, VEL/FPS/05 & OVS
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 03/12/2018 to 04/12/2018
Time of Monitoring	: 14:00 Hrs. to 14:00 Hrs.
Ambient Temperature (°C)	: Min. 12.0, Max. 27.0
Surrounding Activity	: Human, Vehicular, plant & other activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As per Work Order

### TEST RESULTS

S.No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	*SOP No. VEL/SOP/01, Section No. SP 63	38.8	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), 2006	81.6	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Reaffirmed-2006	29.2	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Reaffirmed-2012	11.65	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.60	mg/m <sup>3</sup>	4
6.	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS:11255(P-6), Reaffirmed-2009	18.7	µg/m <sup>3</sup>	400
7.	Lead (Pb), µg/m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	0.19	µg/m <sup>3</sup>	1
8.	Benzene(C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-11), 2004	BDL (DL 0.1µg/m <sup>3</sup> )	µg/m <sup>3</sup>	05
9.	Benzo(a)pyrene, ng/m <sup>3</sup>	IS: 5182 (P-12), 2004	BDL (DL 1.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	01
10.	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-9), Reaffirmed-2003	15.2	µg/m <sup>3</sup>	180
11.	Arsenic As, ng/ m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	BDL	ng/ m <sup>3</sup>	6
12.	Nickel Ni, ng/ m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	4.25	ng/ m <sup>3</sup>	20

Note: \* NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 18.11.2009.  
 # SOP- Laboratory Standard Operating Procedure.

*Shrikant*  
 (Tested By)

*Siraj*  
 (Checked By)



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# Vardan EnviroLab

Laboratory: Samaspur, Sector-51, Opp. Amity School Gurugram - 122001 (Haryana)  
 Regd. Office: D-142, Sushant Lok - III, Sector - 57, Gurugram - 122003 (Haryana)  
 MoEF & CC Recognized | HSPCB & RSPCB Approved | ISO 9001|ISO 14001|OHSAS 18001

## Test Report

Sample Number:	VEL/DCM/A/02	Report No.:	VEL/DCM/A/1812/07002
Name & Address of Party:	M/s DCM Shriram Ltd. Shriram Nagar, Kota, Rajasthan- 324004 (India)	Format No.:	5.10 F-01
Receipt Date:	07/12/2018	Party Reference No.:	NIL
Sample Description :	AMBIENT AIR QUALITY MONITORING	Reporting Date:	12/12/2018
		Period of Analysis:	07-12/12/2018

### General Information:-

Client Representative	: Mr. Vinay Kumar Singh
Sample collected by	: Vardan EnviroLab Team
Sampling Location	: Near GAIL Office
Instrument Used	: VEL/RDS/03, VEL/FPS/02 & OVS
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 03/12/2018 to 04/12/2018
Time of Monitoring	: 14:30 Hrs. to 14:30 Hrs.
Ambient Temperature (°C)	: Min. 12.0, Max. 27.0
Surrounding Activity	: Human, Vehicular, plant & other activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As per Work Order

### TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	*SOP No. VEL/SOP/01, Section No. SP 63	42.8	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), 2006	84.0	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Reaffirmed-2006	29.9	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Reaffirmed-2012	13.2	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.79	mg/m <sup>3</sup>	4
6.	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS:11255(P-6), Reaffirmed-2009	19.4	µg/m <sup>3</sup>	400
7.	Lead (Pb), µg/m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	0.17	µg/m <sup>3</sup>	1
8.	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-11), 2004	BDL (DL 0.1µg/m <sup>3</sup> )	µg/m <sup>3</sup>	05
9.	Benzo(a)pyrene, ng/m <sup>3</sup>	IS: 5182 (P-12), 2004	BDL (DL 1.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	01
10.	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-9), Reaffirmed-2003	BDL	µg/m <sup>3</sup>	180
11.	Arsenic As, ng/ m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	BDL	ng/ m <sup>3</sup>	6
12.	Nickel Ni, ng/ m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	4.05	ng/ m <sup>3</sup>	20

Note: \* NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 18.11.2009.  
 # SOP- Laboratory Standard Operating Procedure.

*(Signature)*  
 (Tested By)

*(Signature)*  
 (Checked By)



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## Test Report

Sample Number:	VEL/DCM/A/03	Report No.:	VEL/DCM/A/1812/07003
Name & Address of Party:	M/s DCM Shriram Ltd. Shriram Nagar, Kota, Rajasthan- 324004 (India)	Format No.:	5.10 F-01
Receipt Date:	07/12/2018	Party Reference No.:	NIL
Sample Description :	AMBIENT AIR QUALITY MONITORING	Reporting Date:	12/12/2018
		Period of Analysis:	07-12/12/2018

### General Information:-

Client Representative	: Mr. Vinay Kumar Singh
Sample collected by	: Vardan EnviroLab Team
Sampling Location	: Near Railway side power plant
Instrument Used	: VEL/RDS/02, VEL/FPS/01 & OVS
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 03/12/2018 to 04/12/2018
Time of Monitoring	: 15:00 Hrs. to 15:00 Hrs.
Ambient Temperature (°C)	: Min. 12.0, Max. 26.0
Surrounding Activity	: Human, Vehicular, plant & other activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As per Work Order

## TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	*SOP No. VEL/SOP/01, Section No. SP 63	43.0	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), 2006	86.4	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Reaffirmed-2006	30.5	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Reaffirmed-2012	15.6	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.83	mg/m <sup>3</sup>	4
6.	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS:11255(P-6), Reaffirmed-2009	20.3	µg/m <sup>3</sup>	400
7.	Lead (Pb), µg/m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	0.17	µg/m <sup>3</sup>	1
8.	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-11), 2004	BDL (DL 0.1µg/m <sup>3</sup> )	µg/m <sup>3</sup>	05
9.	Benzo(a)pyrene, ng/m <sup>3</sup>	IS: 5182 (P-12), 2004	BDL (DL 1.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	01
10.	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-9), Reaffirmed-2003	18.0	µg/m <sup>3</sup>	180
11.	Arsenic As, ng/m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	BDL	ng/m <sup>3</sup>	6
12.	Nickel Ni, ng/m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	5.92	ng/m <sup>3</sup>	20

Note: \* NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

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*(Signature)*  
(Tested By)

*(Signature)*  
(Checked By)



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## Test Report

Sample Number:	VEL/DCM/A/04	Report No.:	VEL /DCM/A/1812/07004
Name & Address of Party:	M/s DCM Shriram Ltd. Shriram Nagar, Kota, Rajasthan- 324004 (India)	Format No.:	5.10 F-01
Receipt Date:	07/12/2018	Party Reference No.:	NIL
Sample Description :	AMBIENT AIR QUALITY MONITORING	Reporting Date:	12/12/2018
		Period of Analysis:	07-12/12/2018

### General Information:-

Client Representative	: Mr. Vinay Kumar Singh
Sample collected by	: Vardan EnviroLab Team
Sampling Location	: Material Gate
Instrument Used	: VEL/BDS/04, VEL/FPS/03 & OVS
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 03/12/2018 to 04/12/2018
Time of Monitoring	: 15:30 Hrs. to 15:30 Hrs.
Ambient Temperature (°C)	: Min. 12.0, Max. 27.0
Surrounding Activity	: Human, Vehicular, plant & other activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As per Work Order

## TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	*SOP No. VEL/SOP/01, Section No. SP 63	46.8	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), 2006	88.9	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Reaffirmed-2006	30.1	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Reaffirmed-2012	15.4	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.69	mg/m <sup>3</sup>	4
6.	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS:11255(P-6), Reaffirmed-2009	15.4	µg/m <sup>3</sup>	400
7.	Lead (Pb), µg/m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	0.21	µg/m <sup>3</sup>	1
8.	Benzene(C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-11), 2004	BDL (DL 0.1µg/m <sup>3</sup> )	µg/m <sup>3</sup>	05
9.	Benzo(a)pyrene, ng/m <sup>3</sup>	IS: 5182 (P-12), 2004	BDL (DL 1.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	01
10.	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-9), Reaffirmed-2003	17.8	µg/m <sup>3</sup>	180
11.	Arsenic As, ng/m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	BDL	ng/m <sup>3</sup>	6
12.	Nickel Ni, ng/m <sup>3</sup>	IS: 5182 (P-22), Reaffirmed-2009	4.52	ng/m <sup>3</sup>	20

Note: \* NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 18.11.2009.

# SOP- Laboratory Standard Operating Procedure.

*Shivani*  
(Tested By)

*Sinn*  
(Checked By)



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Ambient Air Quality Monitoring

# Vardan EnviroLab

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## Test Report

Sample Number:	VEL/DCM/W/01	Report No.:	VEL/DCM/W/1812/12001
Name & Address Of Party	M/s DCM Shriram Ltd. Shriram Nagar, Kota, Rajasthan-324004 (India)	Reporting Date:	12.12.2018
Sample Description:	Peizometric Borewell	Period of Analysis:	07-12.12.2018
Sample Given by	Vardan EnviroLab Team	Receipt Date:	07.12.2018
Sampling & Analysis Protocol	IS 3025, APHA 22nd Edition	Sampling Date:	04.12.2018
		Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per work order

## RESULTS

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA 22 <sup>nd</sup> Edition, 4500-H <sup>+</sup> B	7.01	--	6.5 to 8.5	No Relaxation
2.	Total Dissolved Solids	APHA 22 <sup>nd</sup> Edition, 2540 C	588.0	mg/l	500	2000
3.	Total Hardness as CaCO <sub>3</sub>	APHA 22 <sup>nd</sup> Edition, 2340 C	430.2	mg/l	200	600
4.	Calcium as Ca	APHA (22 <sup>nd</sup> Edition)2012, 3500 Ca B	108.0	mg/l	75	200
5.	Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition)2012, 4500 E	115.2	mg/l	200	400
6.	Chloride as Cl	APHA (22 <sup>nd</sup> Edition)2012, 4500-Cl B	135.1	mg/l	250	1000
7.	Magnesium as Mg	APHA 22 <sup>nd</sup> Edition, 2340 B	28.4	mg/l	30	100
8.	Barium as Ba	IS 13428	BDL(DL 0.02 mg/l)	mg/l	0.7	No Relaxation
9.	Mercury as Hg	APHA 22 <sup>nd</sup> Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
10.	Alkalinity as CaCO <sub>3</sub>	APHA 22 <sup>nd</sup> Edition, 2320 B	230.0	mg/l	200	600

*(Tested By)*

*(Checked By)*

*(Approved By)*

Page 1 of 2

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**Rajasthan State Pollution Control Board**  
4, Institutional Area, Jhalana Doongari, Jaipur-302

Phone: 141-5159600<sup>004</sup> Fax: 0141-5159697

Registered



File No : F(Tech)/Kota(Ladpura)/4060(1)/2017-2018/9008-9010

Order No : 2017-2018/CD/4443

Dispatch Date: 25/01/2018

Unit Id : 620

M/s Shri Ram Vinyl & Chemical Industries

Shri Ram Nagar , Tehsil:Ladpura

District:Kota

**Sub: Consent to Establish** under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

**Ref:** Your application(s) for Consent to Establish dated 15/12/2017 and subsequent correspondence.

Sir,

**Consent to Establish** under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **Stable Bleaching Powder plant** situated / proposed at **Shri Ram Nagar Tehsil:Ladpura District:Kota** , Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **15/12/2017 to 30/11/2022 or date of Commencement of production / commissioning of the project or activities whichever is earlier** .
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity / Capacity
SODIUM HYPO.CHLORITE	By Product	2,720.00 TPA
STABLE BLEACHING POWDER	Product	20,400.00 TPA

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act and Air Act** shall be obtained. This consent to establish shall not be treated as consent to operate.



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- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Trade Effluent	65.000	NIL	65.000 For Plantation and Horticulture

- 6 That the sources of air emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
Scrubber Vent( 3000M <sup>3</sup> /HOUR)	ALKALI SCRUBBER	Chlorine	15 mg/Nm <sup>3</sup>

- 7 That the trade effluent shall be treated before disposal so as to conform to the standards prescribed under the Environment (Protection) Act-1986 for disposal into Inland Surface Water. The main parameters for regular monitoring shall be as under

Parameters	Standards
pH Value	Between 5.5 to 9.0
Oil and Grease	Not to exceed 10 mg/l
Total Residual Chlorine	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l

- 8 That the total production after expansion shall not exceed Stable Bleaching Powder @ 42000 TPA & Sodium Hypo Chlorite @ 5600 TPA



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- 9 That the total capital cost of the project shall not exceed to Rs.730 Lacs which includes the capital investment made in land, building, plant & machinery and other miscellaneous assets.
- 10 That the industry shall comply with the standards for chlorine in ambient air from it process as given below:  
S.No. Pollutant Standards  
1. Chlorine TLV 1 PPM (3mg/Nm<sup>3</sup>)  
2. Chlorine STEL 3 PPM (9mg/Nm<sup>3</sup>)
- 11 That the entire effluent shall be treated through Centralized Effluent Treatment Plant.
- 12 That the records of consumption of energy in Effluent Treatment Plant, effluent treated & discharged shall be maintained in separate log book & monthly record be submitted to Regional Office, Kota.
- 13 That the meters shall be provided to measure the quantity of water consumed in various process/sections/units situated in the premises and to measure the discharge of effluent from various section & units and outside the premises. The log book shall be maintained and monthly record be submitted to Regional Office, Kota.
- 14 That all drains shall be provided with acid proof lining.
- 15 That the upkeep & maintenance shall be improved and more plantations shall be carried out to achieve 33% area of premises under plantation.
- 16 That the sources of air emission are only three reaction vessels connected with caustic soda scrubber (common with caustic soda plant) and attached with stack of 30 mtr height from ground level.
- 17 That water consumption in boiler & cooling shall not exceed 220 KLD. There is no consumption of water in process.
- 18 That domestic water consumption has been included with the domestic water consumption of Caustic Soda Plant for which separate Consent to Operate is issued to Caustic Soda Plant.
- 19 That trade effluent (65 KLD) shall be from boiler/cooling blow down and no effluent shall be generated from the process separately
- 20 That the industry shall be explored possibility for installation of tertiary treatment and recycling facilitates at combined final outlet of the complex. A study report in this regard shall be submitted to the State Board within six months from issue of this consent letter.
- 21 That any incorrect information submitted in the consent application form or declaration shall make the industry liable for legal action under section 42 of the water and section 38 of the Air Act.



**Rajasthan State Pollution Control Board**  
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- 22 That emission/effluents found to be discharged in excess of the standards prescribed shall be punishable under section 37 of the Air Act and under section 43 of the water Act.
- 23 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **under section 27(2) of the Water Act and under section 21(6) of the Air Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act and Air Act**.
- 24 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 25 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, beside the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge [ CD ]



**Rajasthan State Pollution Control Board**  
4, Institutional Area, Jhalana Doongari, Jaipur-302

Phone: 141-5159600<sup>004</sup> Fax: 0141-5159697

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**Order No :** 2017-2018/CD/4443

**Dispatch Date:** 25/01/2018

**Unit Id :** 620

**Copy To:-**

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kota to ensure the compliance.
- 2 Master File.

**Group Incharge[ CD ]**



**Rajasthan State Pollution Control Board**  
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 Phone: 141-5159600<sup>004</sup> Fax: 0141-5159697



**Registered**

**File No :** F(SCMG)/Kota(Ladpura)/2613(1)/2017-2018/1173-1175

**Order No :** 2018-2019/CD/4502

**Dispatch Date:** 25/05/2018

**Unit Id :** 620

**M/s Shri Ram Vinyl & Chemical Industries**

**Shri Ram Nagar , Tehsil:Ladpura**

**District:Kota**

**Sub: Consent to Establish** under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

**Ref:** Your application(s) for Consent to Establish dated 19/12/2016 and subsequent correspondence.

**Sir,**

**Consent to Establish** under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **Caustic Soda plant** situated / proposed at **Shri Ram Nagar Tehsil:Ladpura District:Kota** , Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **03/07/2017 to 30/06/2022 or date of Commencement of production / commissioning of the project or activities whichever is earlier** .
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity / Capacity
Caustic Soda	Product	76,250.00 TPA
CHLORINE or HCl	By Product	1.00 EQ. TO NaOH
DILUTE SULPHURIC ACID	By Product	1,000.00 TPA
Sodium Hypo Chloride	By Product	2,500.00 TPA

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel the project proponent is required to obtain fresh consent to establish.



**Rajasthan State Pollution Control Board**  
4, Institutional Area, Jhalana Doongari, Jaipur-302

Phone: 141-5159600<sup>004</sup> Fax: 0141-5159697

**Registered**

File No : F(SCMG)/Kota(Ladpura)/2613(1)/2017-2018/1173-1175

Order No : 2018-2019/CD/4502

Dispatch Date: 25/05/2018

Unit Id : 620

- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act and Air Act** shall be obtained. This consent to establish shall not be treated as consent to operate.
- 5 That the sources of air emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
HCl Scrubber( 375M <sup>3</sup> / HOUR)	Scrubber	Hydrochloric acid vapour and mist	32 mg/Nm <sup>3</sup>

- 6 That the **Caustic Soda plant** will comply with the standards as prescribed vide MOEF notification No. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality Standards.
- 7 That this consent is being issued for total production of Caustic Soda @ 1,90,000 TPA, Chlorine or HCL @ 1.00 EQ to NaOH, Dilute Sulphuric acid @ 3450 TPA, Sodium Hypo Chloride @ 6000 TPA after expansion.
- 8 That the total capital cost of the project in the condition shall not exceed to Rs. 130 Crores which includes capital investment made in land, building, plant and including only.
- 9 That the daily water consumption of the unit shall not exceed 2985 KLD i.e. (fresh water consumption 2576 KLD & Recycle water consumption 409 KLD)
- 10 That total fresh water consumption (for domestic, industrial & other usages) of this unit shall not exceed 2576 KLD. Water meters shall be installed at suitable places to measure consumption of water for different purposes and daily record of water consumption shall be maintained by the industry. The water requirement shall be met from Raipura Talao of Chambal Project.
- 11 That no ground water shall be abstracted without prior permission from Central Ground Water Authority.
- 12 That the industrial waste water generated from the project shall be treated in R.O. (550 KLD) of after PH correction. Domestic waste water from entire DCM complex shall be treated in common STP (250 KLD).
- 13 That treated trade effluent shall be utilized for plantation/horticulture or reused in process to the maximum extent possible within the premises and the balance may be discharged into drain.





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Unit Id : 620

- 14 That unit shall not increase any waste water generation/Hazardous waste generation due to expansion of project.
- 15 That the quantities of the effluent generated, used/ consumed within the premises and discharged shall be measured and the record of the same shall be maintained.
- 16 Acid proof lining or acid resistant brick lining shall be provided to the internal drains which carries collective effluent of the complex to the Centralized ETP and compliance report shall be submitted within 30 days from issues of the letter.
- 17 The industry shall provide flow meters to measure the total quantity of effluent discharged from the final outlet of the premises. The record of daily discharge shall be maintained in log-book and monthly abstract shall be submitted to Regional Office, Kota.
- 18 The combined production of chlorine and HCl shall not exceed to the equivalent production of NaOH at any time, as per stoichiometric calculations.
- 19 That standards for chlorine as prescribed below shall be maintained in ambient air within the factory premises:-
  1. Chlorine TLV (8 Hours) - 1 ppm (3 mg/Nm<sup>3</sup>)
  2. STEL (15 Minutes) - 3 ppm (9 mg/Nm<sup>3</sup>).
- 20 That the industry shall provide & maintain at least four ambient air quality stations in all directions at the periphery of the industrial premises for the monitoring of ambient air quality as per condition no. 6 above. The location on plan must be intimated to Head Office & Regional Office, Kota within 30 days.
- 21 That the power supply to the production shall be so interlocked with the pollution control equipment's that in the event of non functioning of the pollution control equipment, the production process stops automatically.
- 22 That industry shall provide & maintain chlorine sensor in all directions. The location and number of sensors shall be decided in consultation with the Regional Officer, Kota & same shall be intimated to Head Office within 30 days.
- 23 That the industry shall abide all conditions of Environmental clearance No.:F1(4)/SEIAA/SEAC-Raj/Sectt/Project/Cat.8(b)B1 (15054)/16-17 Jaipur Dated 22 July, 2017.
- 24 That the industry shall use by products (chlorine/Hydro chlorine acid) for manufacturing of other products with in the premises to the maximum possible extent. Records of sale shall be maintained on daily basis.
- 25 The industry shall submit quarterly analysis report from State Board's laboratory or the laboratory recognized by the State Board of the final outlet of industry and emission sources to confirm compliance of the standards stated in conditions No.5 & 7.
- 26 That the unit shall not use pet coke and furnace oil as fuel after ban imposed by Hon'ble supreme court vide its order dated 24/10/2017.





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Order No : 2018-2019/CD/4502

Dispatch Date: 25/05/2018

Unit Id : 620

- 27 That industry shall comply with the provisions of Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2016.
- 28 Water meters shall be installed at suitable places in consultation with R.O., Kota to measure consumption of water for different uses as well as for measuring effluent generated, treated, reused & disposed. Separate log-book shall be maintained for daily record of these meter readings by the industry & the monthly summery shall be submitted to Regional Officer, Kota.
- 29 That unit shall maintain 33 % of the total area under plantation.
- 30 That unit shall comply with all the conditions imposed by this Consent to Establish failing which stern action will be taken against the unit.
- 31 That the unit shall comply all other conditions of consent to operate File No : F(Tech)/Kota(Ladpura)/4060(1)/2017-2018/4967-4969 dated 29/08/2017.
- 32 That emission/effluents found to be discharged in excess of the standards prescribed shall be punishable under section 37 of the Air Act and under section 43 of the water Act .
- 33 That any incorrect information submitted in the consent application form or declaration shall make the industry liable for legal action under section 42 of the water and section 38 of the Air Act.
- 34 That industry shall submit details of ozone depleting substances within one month of issuance of this letter.
- 35 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained under section 27(2) of the Water Act and under section 21(6) of the Air Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act and Air Act.
- 36 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 37 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, beside the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from



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Order No : 2018-2019/CD/4502

Dispatch Date: 25/05/2018

Unit Id : 620

time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

**Yours Sincerely**

**Group Incharge[ CD ]**

**Copy To:-**

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kota to ensure the compliance.
- 2 Master File.

**Group Incharge[ CD ]**



**Rajasthan State Pollution Control Board**  
 4, Institutional Area, Jhalana Doongari, Jaipur-302 004  
 Phone: 141-5159600 Fax: 0141-5159697



## Registered

File No : F(Tech)/Kota(Ladpura)/4080(1)/2018-2019/4346-4348

Order No : 2018-2019/CD/6242

Date: 26/09/2018

Unit Id : 620

M/s Shri Ram Vinyl &amp; Chemical Industries

Shri Ram Nagar , Tehsil:Ladpura

District:Kota

**Sub:** Consent to Operate under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

**Ref:** Your application for Consent to Operate dated 03/04/2018 and subsequent correspondence.

Sir,

**Consent to Operate** under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder is **hereby granted** for your **Stable Bleaching Powder plant** situated at **Shri Ram Nagar Tehsil:Ladpura District:Kota**, Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **04/04/2018** to **31/03/2023**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity with Unit
SODIUM HYPO CHLORITE	By Product	5,600.00 TPA
STABLE BLEACHING POWDER	Product	42,000.00 TPA

- 3 That this consent to operate is for existing plant, process & capacity and separate consent to establish/operate is required to be taken for any addition / modification / alteration in process or change in capacity or change in fuel.
- 4 That the quantity of effluent generation along with mode of disposal for the treated effluent shall be as under:



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File No : F(Tech)/Kota(Ladpura)/4080(1)/2018-2019/4346-4348

Order No : 2018-2019/CD/6242

Date: 26/09/2018

Unit Id : 620

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD) and mode of disposal
Trade Effluent	65.000	NIL	65.000 For Plantation and Horticulture

- 5 That the sources of air emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
Scrubber Vent( 3000M <sup>3</sup> /HOUR)	ALKALI SCRUBBER	Chlorine	15 mg/Nm <sup>3</sup>

- 6 That the **Stable Bleaching Powder plant** will comply with the standards as prescribed vide MOEF notification No. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality Standards.
- 7 That the trade effluent shall be treated before disposal so as to conform to the standards prescribed under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under

Parameters	Standards
pH Value	Between 5.5 to 9.0
Oil and Grease	Not to exceed 10 mg/l
Total Residual Chlorine	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l

- 8 That the total production after expansion shall not exceed **Stable Bleaching Powder @ 42000 TPA & Sodium Hypo Chlorite @ 5600 TPA**



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File No : F(Tech)/Kota(Ladpura)/4080(1)/2018-2019/4346-4348

Order No : 2018-2019/CD/6242

Date: 26/09/2018

Unit Id : 620

- 9 That the total capital cost of the project shall not exceed to Rs.931 Lacs which includes the capital investment made in land, building, plant & machinery and other miscellaneous assets.
- 10 That the industry shall comply with the standards for chlorine in ambient air from it process as given below:  
S.No. Pollutant Standards  
1. Chlorine TLV 1 PPM (3mg/Nm<sup>3</sup>)  
2. Chlorine STEL 3 PPM (9mg/Nm<sup>3</sup>)
- 11 That the entire effluent shall be treated through Centralized Effluent Treatment Plant.
- 12 That the records of consumption of energy in Effluent Treatment Plant, effluent treated & discharged shall be maintained in separate log book & monthly record be submitted to Regional Office, Kota.
- 13 That the meters shall be provided to measure the quantity of water consumed in various process/sections/units situated in the premises and to measure the discharge of effluent from various section & units and outside the premises. The log book shall be maintained and monthly record be submitted to Regional Office, Kota.
- 14 That all drains shall be provided with acid proof lining.
- 15 That the upkeep & maintenance shall be improved and more plantations shall be carried out to achieve 33% area of premises under plantation.
- 16 That the sources of air emission are only three reaction vessels connected with caustic soda scrubber (common with caustic soda plant) and attached with stack of 30 mtr height from ground level.
- 17 That water consumption in boiler & cooling shall not exceed 220 KLD. There is no consumption of water in process.
- 18 That domestic water consumption has been included with the domestic water consumption of Caustic Soda Plant for which separate Consent to Operate is issued to Caustic Soda Plant.
- 19 That trade effluent (65 KLD) shall be from boiler/cooling blow down and no effluent shall be generated from the process separately.
- 20 That the industry shall be explored possibility for installation of tertiary treatment and recycling facilitates at combined final outlet of the complex. A study report in this regard shall be submitted to the State Board within six months from issue of this consent letter.
- 21 That the industry shall submit application for renewal of consent to operate at least 4 months before expiry of this consent.



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Order No : 2018-2019/CD/6242

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Unit Id : 620

- 22 That any incorrect information submitted in the consent application form or declaration shall make the industry liable for legal action under section 42 of the water and section 38 of the Air Act.
- 23 That emission/effluents found to be discharged in excess of the standards prescribed shall be punishable under section 37 of the Air Act and under section 43 of the water Act.
- 24 That unit shall comply with all the conditions imposed by this Consent to Operate failing which stern action will be taken against the unit.
- 25 That the CTO granted vide order no. 2017-2018/SCMG/4400 dated 03/07/2017 vide become infrastuous with grant of this consent to operate.
- 26 That industry shall submit details of ozone depleting substances within one month of issuance of this letter.
- 27 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained under section 27(2) of the Water Act and under section 21(6) of the Air Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of Air Act & Water Act.
- 28 That the grant of this **Consent to Operate** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 29 That the grant of this **Consent to Operate** shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Operate** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from time to time, be specified, by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Operate** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).



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**Order No :** 2018-2019/CD/6242

**Date:** 26/09/2018

**Unit Id :** 620

This bears the approval of the competent authority.

**Yours Sincerely**

**Group Incharge[ CD ]**

**Copy To:-**

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kota to ensure the compliance.
- 2 Master File.

**Group Incharge[ CD ]**



**Rajasthan State Pollution Control Board**  
**4, Institutional Area, Jhalana Doongari, Jaipur-302 004**  
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**Registered**

**File No :** F(Tech)/Kota(Ladpura)/4080(1)/2018-2019/4548-4550  
**Order No:** 2018-2019/CD/6247 **Date:** 22/10/2018  
**Unit Id :** 620  
**M/s Shri Ram Vinyl & Chemical Industries**  
**Shri Ram Nagar , Tehsil:Ladpura**  
**District:Kota**

**Sub: Consent to Operate** under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

**Ref:** Your application for Consent to Operate dated 08/06/2018 and subsequent correspondence.

**Sir,**

**Consent to Operate** under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder is **hereby granted** for your **Caustic Soda plant** situated at **Shri Ram Nagar Tehsil:Ladpura District:Kota** , Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **01/10/2018 to 30/09/2023** .
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity with Unit
Caustic Soda	Product	76,250.00 TPA
CHLORINE OR HCL	By Product	1.00 EQ. TO NaOH
DILUTE SULPHURIC ACID	By Product	1,000.00 TPA
SODIUM HYPO CHLORITE	By Product	2,500.00 TPA

- 3 That this consent to operate is for existing plant, process & capacity and separate consent to establish/operate is required to be taken for any addition / modification / alteration in process or change in capacity or change in fuel.
- 4 That the quantity of effluent generation along with mode of disposal for the treated effluent shall be as under:



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Order No: 2018-2019/CD/6247

Date: 22/10/2018

Unit Id : 620

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD) and mode of disposal
Domestic Sewage	20.000	NIL	20.000 Septic Tank and soak pit or through sewage treatment plant
Trade Effluent	540.000	324.000	216.000 Into Drain

- 5 That the sources of air emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
HCl Scrubber( 375M <sup>3</sup> / HOUR)	Scrubber	Hydrochloric acid vapour and mist	32 mg/Nm <sup>3</sup>

- 6 That the **Caustic Soda plant** will comply with the standards as prescribed vide MOEF notification No. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality Standards.
- 7 That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under.

Parameters	Standards
Total Suspended Solids	Not to exceed 100 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
pH Value	Between 6.5 to 9.0
Fecal Coliform (FC) (MPN per 100ml)	Not to exceed 1000



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Order No : 2018-2019/CD/6247

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Unit Id : 620

- 8 That the trade effluent shall be treated before disposal so as to conform to the standards prescribed under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under

Parameters	Standards
Total Suspended Solids	Not to exceed 100 mg/l
pH Value	Between 5.5 to 9.0
Oil and Grease	Not to exceed 10 mg/l
Total Residual Chlorine	Not to exceed 1.0 mg/l
Ammonical Nitrogen ( as N )	Not to exceed 50 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Mercury ( As Hg )	Not to exceed 0.01 mg/l
Hexavalent Chromium ( as Cr+6 )	Not to exceed 0.1 mg/l
Total Chromium ( as Cr )	Not to exceed 2.0 mg/l
Cyanide ( as CN )	Not to exceed 0.2 mg/l
Phenolic Compounds ( as C <sub>6</sub> H <sub>5</sub> OH )	Not to exceed 1.0 mg/l
Bio-assay Test	90% survival of fish after 96 hours in 100% effluent
Chlorides	Not to exceed 1000 mg/l
Sulphates	Not to exceed 1000 mg/l
Colour & Odour	All efforts should be made to remove colour & unpleasant odour as far as practicable
Chemical Oxygen Demand	Not to exceed 250 mg/l

- 9 The combined production of chlorine and HCl shall not exceed to the equivalent production of NaOH at any time, as per stoichiometric calculations.

- 10 That this Consent to Operate is valid for following sources of air pollution:

1. HCl Scrubber



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Order No : 2018-2019/CD/6247

Date: 22/10/2018

Unit Id : 620

- 11 That the total capital cost of the project in the condition shall not exceed to Rs. 130 Crores which includes capital investment made in land, building, plant and including only.
- 12 That the total water consumption including existing water consumption allowed vide CTO No. F (Tech)/Kota(Ladpura)/4060(1)/2017-2018/4967-4969 dated 29/08/2017 of the unit shall not exceed 2680 KLD i.e. (fresh water consumption 2356 KLD & Recycle water consumption (324 KLD) water meters shall be installed at suitable places to measure consumption of water for different purposes and daily record of water consumption shall be maintained by the industry. The water requirement shall be met from Raipura Talao of Chambal Project.
- 13 That water meters shall be installed at suitable places to measure consumption of water for different purposes and daily record of water consumption shall be maintained by the industry. The water requirement shall be met from Raipura Talao of Chambal Project.
- 14 That no ground water shall be abstracted without prior permission from Central Ground Water Authority.
- 15 That the industrial waste water generated including existing waste water generation allowed vide CTO No. F (Tech)/Kota(Ladpura)/4060(1)/2017-2018/4967-4969 dated 29/08/2017 from the project 540 KLD shall be treated in R.O. PH correction. Domestic waste water from entire DCM complex shall be treated in common STP (250 KLD).
- 16 That treated trade effluent shall be utilized for plantation/horticulture or reused in process to the maximum extent possible within the premises and the balance may be discharged into drain.
- 17 That unit shall not increase any waste water generation/Hazardous waste generation due to expansion of project.
- 18 That the quantities of the effluent generated, used/ consumed within the premises and discharged shall be measured and the record of the same shall be maintained.
- 19 The industry shall provide flow meters to measure the total quantity of effluent discharged from the final outlet of the premises. The record of daily discharge shall be maintained in log-book and monthly abstract shall be submitted to Regional Office, Kota.
- 20 That standards for chlorine as prescribed below shall be maintained in ambient air within the factory premises:-
  1. Chlorine TLV (8 Hours) - 1 ppm (3 mg/Nm<sup>3</sup>)
  2. STEL (15 Minutes) - 3 ppm (9 mg/Nm<sup>3</sup>).
- 21 That the industry shall provide & maintain at least four ambient air quality stations in all directions at the periphery of the industrial premises for the monitoring of ambient air quality as per condition no. 6 above.



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Order No : 2018-2019/CD/6247

Date: 22/10/2018

Unit Id : 620

- 22 That the power supply to the production shall be so interlocked with the pollution control equipment's that in the event of non functioning of the pollution control equipment, the production process stops automatically.
- 23 That industry shall provide & maintain chlorine sensor in all directions.
- 24 That the industry shall abide all conditions of Environmental clearance No.:F1(4)/SEIAA/SEAC-Raj/Sectt/Project/Cat.8(b)B1 (15054)/16-17 Jaipur Dated 12 July, 2017.
- 25 That the industry shall use by products (chlorine/Hydro chlorine acid) for manufacturing of other products with in the premises to the maximum possible extant. Records of sale shall be maintained on daily basis.
- 26 The industry shall submit quarterly analysis report from State Board's laboratory or the laboratory recognized by the State Board of the final outlet of industry and emission sources to confirm compliance of the standards stated in conditions No.5 & 7.
- 27 That the unit shall not use pet coke and furnace oil as fuel after ban imposed by Hon'ble supreme court vide its order dated 24/10/2017.
- 28 That industry shall comply with the provisions of Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2016.
- 29 Water meters shall be installed at suitable places in consultation with R.O., Kota to measure consumption of water for different uses as well as for measuring effluent generated, treated, reused & disposed. Separate log-book shall be maintained for daily record of these meter readings by the industry & the monthly summery shall be submitted to Regional Officer, Kota.
- 30 That unit shall maintain 33 % of the total area under plantation.
- 31 That unit shall comply with all the conditions imposed by this Consent to Operate failing which stern action will be taken against the unit.
- 32 That the unit shall comply all other conditions of consent to operate File No : F(Tech)/Kota(Ladpura)/4060(1)/2017-2018/4967-4969 dated 29/08/2017.
- 33 That industry shall not carryout any modification/change in process or manufacture/produce any other products/byproducts which require environment clearance as per the provisions of Environment Impact Assessment Notification dated 14/09/2006 issued by Ministry of Environment & Forests, Government of India.
- 34 That the industry shall carryout effluent sampling and ambient air quality/stack emission/process emission monitoring and submit quarterly analysis report from State Board laboratory/laboratory recognized by Ministry of Environment & Forests(MoEF), Government of India/Rajasthan State Pollution Control Board.



**Rajasthan State Pollution Control Board**  
4, Institutional Area, Jhalana Doongari, Jaipur-302 004  
Phone: 141-5159600 Fax: 0141-5159697

Registered

File No : F(Tech)/Kota(Ladpura)/4080(1)/2018-2019/4548-4550

Order No: 2018-2019/CD/6247

Date: 22/10/2018

Unit Id : 620

- 35 That industry shall submit quarterly compliance report of consent conditions to the Regional Office, Kota.
- 36 That unit shall not install any other sources of Air pollution/Water pollution without obtaining prior Consent to Operate from the State Board.
- 37 That any incorrect information submitted in the consent application form or declaration shall make the industry liable for legal action under section 42 of the water and section 38 of the Air Act.
- 38 That industry shall submit details of ozone depleting substances within one month of issuance of this letter.
- 39 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **under section 27(2) of the Water Act and under section 21(6) of the Air Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of **Air Act & Water Act**.
- 40 That the grant of this **Consent to Operate** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 41 That the grant of this **Consent to Operate** shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Operate** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from time to time, be specified, by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Operate** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[ CD ]



**Rajasthan State Pollution Control Board**  
**4, Institutional Area, Jhalana Doongari, Jaipur-302 004**  
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**File No : F(Tech)/Kota(Ladpura)/4080(1)/2018-2019/4548-4550**

**Order No : 2018-2019/CD/6247**

**Date: 22/10/2018**

**Unit Id : 620**

**Copy To:-**

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kota to ensure the compliance.
- 2 Master File.

**Group Incharge[ CD ]**



Safety Plan - 2018-19																
High	Chlor Alkali Group	Legends	Planned													
Medium			Completed as planned													
Low			Not done													
S.No.	Job details	Responsibility	Period	Month												Remarks
				Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	
Meetings and Reviews																
1	Safety Committee Meetings	Sanjay Jain/ Manish Mathur	Planned	30	30	30	30	30	30	30	30	30	30	28	30	
			Executed	24	28	28	30	30	29	31						
			Jobs I/C	16/9	58/48	205/160	280/263	290/286	303/293	384/352	438/435					
															Total jobs identified/completed till date (Calander year)	
2	Review of risk assessment of activities	Ashish Gautam/ Hemant Nama	Planned											25.03.2019		
			Executed													
			Action I/C													
															No. Actions identified/completed till date	
3	Review of fire risk assessment	Hemant Rana	Planned			25										
			Executed			20										
			Action I/C			0/0										
															No. Actions identified/completed till date	
4	Mock drill (A/B/C Shift)	Vijay Kastiwat/ Hemant Rana/ ESD	Planned		30			30			30					
			Executed					30								
			Finding /Imp					3								
															No. Mock drill findings/Implemented	
5	Medical checkup of employees	Ashok Gutpta/OHC	Planned						30						30	
			Executed						30							
			TNE/EHE						99/99							
															Total No. of Employees/Employees Examined	
6	Medical checkup of Contractor employees	Ashok Gutpta/OHC	Planned											30		
			Executed													
			TNE/EHE													
															Total No. of Employees/Employees Examined	

**Safety Plan - 2018-19**

High	<b>Chlor Alkali Group</b>	<b>Legends</b>	Planned	
Medium			Completed as planned	Not done
Low				

S.No.	Job details	Responsibility	Period	Month												Remarks
				Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	
				Checking of Safety Systems												
7	Checking of first aid boxes	Section Incharges	Planned	25	25	25	25	25	25	25	25	25	25	25	25	No of Gaps/No. of Actions completed
			Executed	9	7	4	1	27	3	8	12					
			NOD/NAC	0/0	0/0	1/1	0/0	0/0	0/0	0/0	0/0					
8	Checking/ Inspection of safety showers	Section Incharges	Planned	28	28	28	28	28	28	28	28	28	28	28	28	No. of Deviations/No. of Rectifications
			Executed	12	14	20	19	18	10	11	15					
			NOD/NOR	0/0	0/0	1/1	1/1	0/0	2/2	3/3	0/0					
9	Checking/Inspection of on-line breathing equipments	Deepesh Mittal	Planned	20	20	20	20	20	20	20	20	20	20	20	No. of Deviations/No. of Rectifications	
			Executed	12	14	20	19	18	10	11	15					
			NOD/NOR	0/0	0/0	0/0	0/0	0/0	1/0	1/1	0/0					
10	Checking of fire hydrant network for leakage	Deepesh Mittal	Planned	20	20	20	20	20	20	20	20	20	20	20	No. of Deviations/No. of Rectifications	
			Executed	5	11	20	15	20	15	13	7					
			NOD/NOR	0/0	1/1	1/1	1/1	0/0	0/0	0/0	0/0					
11	Physical checking of fire extinguishers	Hemant Rana	Planned	25	25	25	25	25	25	25	25	25	25	25	No. of Deviations/No. of Rectifications	
			Executed	13	21	20	18	16	18	16	13					
			NOD/NOR	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0					
12	Checking of fire detection system	Saurabh Jain	Planned	30	30	30	30	30	30	30	30	30	30	30	No. of Deviations/No. of Rectifications	
			Executed	20	18	21	24	20	22	19	20					
			NOD/NOR	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0					
13	Checking of sprinkler system	Saurabh Jain	Planned	28	28	28	28	28	28	28	28	28	28	28	No. of Deviations/No. of Rectifications	
			Executed	21	18	23	25	15	23	18	20					
			NOD/NOR	5/5	6/6	5/5	6/6	3/3	4/4	5/5	4/4					
14	Checking of machine guards	Maintenance Incharges	Planned										25		No. of Deviations/No. of Rectifications	
			Executed													
			NOD/NOR													
15	Checking of access equipments	Abhay Jain	Planned				25						25		No. of Deviations/No. of Rectifications	
			Executed				24									
			NOD/NOR				6/6									
16	Checking of portable electrical equipments	Electrical Incharges	Planned		27							29			Total No. EE/No. OK	
			Executed		24											
			TH/NOK		4/4											
17	Checking of hand tools(HT) - company	B.S. Saini	Planned				25						25		Total No. HT/No. OK	
			Executed				20									
			TH/NOK				456/456									
			Planned		25							25				

**Safety Plan - 2018-19**

S.No.	Job details	Responsibility	Period	Month												Remarks	
				Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19		
18	Checking of escape routes	Hemant Rana	Executed		15							15					No. of Deviations/No. of Rectifications
			NOD/NOR		0/0								0/0				
19	Checking of earthing pits instruments	Dinesh Ratore/ BS Negi	Planned		17							17					No. of Deviations/No. of Rectifications
			Executed		16							10					
20	Checking of Chlorine monitors	Dinesh Ratore/ BS Hegi	NOD/NOR		0/0							0/0					No. of Deviations/No. of Rectifications
			Planned	15	15	15	15	15	15	15	15	15	15	15	15	15	
21	Checking of earthing pits Electrical	Ankit Jain	Executed	10	4	7	5	6	6	10	6						No. of Deviations/No. of Rectifications
			NOD/NOR	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0						
			Planned			18							18				No. of Deviations/No. of Rectifications
			Executed			15											
			NOD/NOR			0/0											

Safety Plan - 2018-19																
High	Chlor Alkali Group	Legends	Planned													
Medium			Completed as planned													
Low			Not done													
S.No.	Job details	Responsibility	Period	Month												Remarks
				Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	
Safety Inspections																
22	Plant safety inspection	Sanjay Jain/ Manish Mathur	Planned	25	25	25	25	25	25	25	25	25	25	25		
			Executed	16	28	15	16	24	26	25	14					
			TNU/NUC	16/9	58/48	205/160	280/263	290/286	303/293	384/352	438/435					
23	Inspection of buildings	Sanjay Jain	Planned											25.03.2019	Continue	
			Executed													
			NOD/NOR													No. of Deviations/No. of Rectifications
24	Inspection of foundations	Sanjay Jain	Planned									25	25	25		
			Executed													
			NOD/NOR													No. of Deviations/No. of Rectifications
25	Inspection of mechanical structures for all sections	Abhay Jain	Planned				15									
			Executed				15									
			NOD/NOR				0/0									No. of Deviations/No. of Rectifications
26	Inspection of platform, railing & toe guards, drain cover and floor	Abhay Jain Sanjay Jain	Planned				7									
			Executed				8									
			NOD/NOR				4/4									No. of Deviations/No. of Rectifications
27	Checking of Contractors lifting tools	BS Saini	Planned			15						15				
			Executed			15										
			NOD/NOR			10/10										No. of Deviations/No. of Rectifications
28	Work Environment monitoring	ESD	Planned	20						20						
			Executed	16						8						
			NOS/NOSC	103/103							103/103					No. of Samples/No. of samples in compliance
29	Lux level monitoring	Ankit Jain	Planned						30					30		
			Executed						25							
			NOD/NOR						0/0							No. of Deviations/No. of Rectifications
30	Inspection of safety signages	Sanjay Jain	Planned			20										
			Executed			12										
			NOD/NOR			8/8										No. of Deviations/No. of Rectifications
31	Inspection of pipeline colour coding	Deepesh Mittal	Planned									25				
			Executed													
			NOD/NOR													No. of Deviations/No. of Rectifications
32	Inspection of roads and pavements	Sanjay Jain	Planned			20										
			Executed			15										
			NOD/NOR			4/4										No. of Deviations/No. of Rectifications

**Safety Plan - 2018-19**

High	<b>Chlor Alkali Group</b>	<u>Legends</u>	Planned	
Medium			Completed as planned	Not done
Low				

S.No.	Job details	Responsibility	Period	Month												Remarks
				Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	
33	Inspection of loading, unloading and stacking	Manish Mathur	Planned	20	20	20	20	20	20	20	20	20	20	20	20	
			Executed	10	11	16	16	17	17	15	14					
			NOD/NOR	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0					
34	Inspection of VDUs	Deepesh Mittal	Planned				25									
			Executed													
			NOD/NOR													

**Safety Plan - 2018-19**

High	<b>Chlor Alkali Group</b>	Legends	Planned	
Medium			Completed as planned	Not done
Low				

S.No.	Job details	Responsibility	Period	Month												Remarks	
				Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19		
<b>Testing tools/tackles/ vessels etc</b>																	
35	Testing of lifting equipments/cranes hoists (C/N on pulley block)	Sandeep Bhargava	Planned				20							26			No. of Lifting Equipment/No. Tested
			Executed				15										
			NOLE/NT				13/13										
36	Testing of safety harness (SH)	Sandeep Bhargava	Planned				14							14			Total No. of SH/No. OK
			Executed				14										
			TNSH/NOK				7/7										
37	Testing of pressure vessels	Sandeep Bhargava	Planned				14							14			No. of pressure vessels/No. Tested
			Executed				14										
			NOPV/NT				25/25										
38	Hydrotesting of chlorine storage tanks	Manoj Khandelwal/ BK Joshi	Planned						9					15			No. of tanks due for testing/ No. Tested
			Executed						4								
			NOT/NT						1/1								
39	Testing of corrosive vessels	Sandeep Bhargava	Planned				15							15			No. of Corr. Vessels/No. Tested
			Executed				15										
			NOCV/NT				17/17										
40	Testing of limit switches/ pull cords etc	Saurabh Jain	Planned					10									No. of Limit switches & pull cord/No. Tested
			Executed					9									
			NOLSPC/NT					15/15									
41	Testing of air quality of online breathing air equipments	Deepesh Mittal/ Rajesh Gupta	Planned		26			25			25				25		No. of Equipment Complying/No. Not complying
			Executed		5			27			11						
			NOEC/NC		0/0			0/0			0/0						
42	Testing of lightning arrestors	Ankit jain	Planned												27		No of lightning arrests/No. Tested
			Executed														
			NOLA/NT														
43	Testing of emergency lights	Ankit jain	Planned						28							28	No. of Emergency Lights/No. Tested
			Executed						26								
			NOEL/NT						29/29								
44	Testing of safety valves	Sandeep Bhargava	Planned	7		11	20			23	10	31	29	2			No. of valves/No. Tested
			Executed	11		4	20			22	2						
			NOSV/NT	10/10		1/1	4/4			1/1	9/9						

**Safety Plan - 2018-19**

High	<b>Chlor Alkali Group</b>	Legends	Planned	
Medium			Completed as planned	Not done
Low				

S.No.	Job details	Responsibility	Period	Month												Remarks	
				Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19		
<b>Training on Occupational Health &amp; Safety</b>																	
45	Electrical & personal safe guarding	kamlesh Patidar	Planned														
			Executed														
46	Use of personal protective equipment	BK Joshi	Planned														
			Executed														
47	Work Permit System	Narendra Sharma/A Jain	Planned														
			Executed														
48	Fire prevention, protection & Fighting system	Hemant Rana	Planned														
			Executed														
49	Emergency preparedness plan/ handling	Hemant Rana	Planned														
			Executed														
50	Transportation of hazardous substances	Anshul Modi	Planned														
			Executed														
51	Near Miss noticed	Section I/c	Recorded	0	4	1	0	0	0	0	10						
			Corrected	0	4	1	0	0	0	0	10						
			Cummulative Yearly	0	4	5	5	5	5	5	15						
52	First Aid cases	Section I/c	For the month	1	1	0	1	2	2	4	0						
			Cummulative Yearly	1	2	2	3	5	7	11	11						
53	Reportable Cases	Section I/c	For the month	0	0	0	0	0	0	0	0						
			Cummulative Yearly	0	0	0	0	0	0	0	0						

Safety Plan - 2018-19																
High	Chlor Alkali Group			Planned		Completed as planned		Not done								
Medium				Legends												
Low																
S.No.	Job details	Responsibility	Period	Month												Remarks
				Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	
Behavioral Safety Points																
54	During salt feeding, back & forth movement of pay loader is required. Whenever payloader moves backward, back horn sound annoys the driver, so he disconnects the wire of back horn wire.	Hemant Rana	NOC/NOB	1/30	2/30	2/30	2/31	2/31	2/30	1/31	1/30				No. of deviations/No. of observations	
55	Wearing of Safety jackets at work place chlorine section.	BK Joshi	NOD/NOB								13/30				No. of deviations/No. of observations	
56	Caustic tanker drivers during tanker filling operation move on the taker in an unsafe manner and avoid using safety harness.	Hemant Rana	NOD/NOB	1/24	2/26	2/26	1/30	3/28	4/24	6/26	5/27				No. of deviations/No. of observations	
57	Person involves in charging & unloading operation of hydrated lime in SBP plant some times avoid wearing proper PPE's (Dust mask, gloves, goggles) as instructed.	Marish Mathur	NOD/NOB	0/30	0/31	0/30	0/31	0/32	0/30	0/31	0/30				No. of deviations/No. of observations	
58	Filling of HCl tankers	Hemant Rana	NOD/NOB	4/27	7/26	4/23	4/25	3/21	4/26	4/26	4/26				No. of deviations/No. of observations	
59	Persons involved in flakes packing operation are given PPE's for packing operation, but observed using them in improper manner.	Hemant Rana	NOD/NOB	1/30	1/31	2/30	2/29	1/16	2/27	1/27	1/29				No. of deviations/No. of observations	



RAJASTHAN STATE POLLUTION CONTROL BOARD  
4, Institutional Area, Jhalana Doongari, Jaipur-302 004  
Phone: 0141-5159600,5159695 Fax: 0141-5159697



Registered

File No: F(HSW)/Kota(Ladpura)/20(1)/2010-2011/7299-7301

Date:- 17/11/2017

Unit Id : 1772

M/s Shri Ram Fertilizers & Chemicals

Shri Ram Nagar, Kota Tehsil:Ladpura

District:Kota

Sub:- Authorization for operating a facility for Collection, Disposal, Generation, Incineration, Reception, Reuse, Storage, Transport of Hazardous Wastes Under Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.

Ref:- Your application dated : 25/07/2016 received on 26/07/2016 and subsequent corresponde

Sir

- 1 Number of authorization RPCB/HWM/2017-2018/HSW/HSW/215.
- 2 Application Number : 160260 dated : 25/07/2016 .

- 3 Whole Time Director-EHS of M/s Shri Ram Fertilizers & Chemicals is hereby granted an authorization based on the enclosed signed inspection report for Collection, Disposal, Generation, Incineration, Reception, Reuse, Storage, Transport of Hazardous waste on the premises situated at Shri Ram Nagar, LARGE SCALE INDUSTRIAL AREA, Kota District: Kota.

Details of Authorization

SNo	Type of Hazardous waste	Category		Quantity/ Unit	Hazardous Waste Disposal Practice
		Sch	Code		
1	Spent catalyst*	I	18.1	90.00 MT (IN 2 TO 3 YEARS)	Sales to Registered Recycler
2	Spent catalysts	I	22.1	120.00 MTA	Sales to Registered Recycler
3	Process residues	I	22.2	166.00 MTA	Sales to Registered Recycler
4	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	I	33.1	2000.00 NOS./ANNUM	Reuse/ Sales to Registered Recycler



Registered

File No: F(HSW)/Kota(Ladpura)/20(1)/2010-2011/7299-7301

Date: 17/11/2017

Unit Id : 1772

5	Used or spent oil	I	5.1	65.00 MTA	Sales to Registered Recycler
6	Spent and wastage residues oil and oil soaking cloth	I	5.2	0.10 MTA	Incineration at approved Incinerator

4. The authorization shall be in force for period from 01/12/2016 to 30/11/2021 .



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**Registered**

**File No: F(HSW)/Kota(Ladpura)/20(1)/2010-2011/7299-7301**

**Date:- 17/11/2017**

**Unit Id : 1772**

The authorization is subject to the following general and specific conditions :

**A. General conditions of Authorization**

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed





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File No: F(HSW)/Kota(Ladpura)/20(1)/2010-2011/7299-7301

Date:- 17/11/2017

Unit Id : 1772

of as per specific conditions of authorisation.

11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

**B. Specific Conditions**

- 5 That this authorization shall ceased to be valid & shall be liable to be revoked without any further notice in case of refusal/expiry of consent to operate under the provisions of Water(Prevention and Control of Pollution) Act,1974 and Air(Prevention and Control of Pollution)Act,1981 by the State Board.
- 6 That no recycling/re-processing of the hazardous waste covered under schedule IV shall be carried without prior valid registration with Competent Authority as recycler/ re-processor of hazardous waste under the rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- 7 That no hazardous waste shall be utilized for co-processing as a supplementary resource or for energy recovery, or after processing without prior & valid approval of Central Pollution Control Board under the rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- 8 That in case of any expansion or change in process or product or change in mode / practice of disposal of hazardous waste or its quantity, industry shall obtain fresh authorization.
- 9 That the arrangements for transportation of the hazardous waste for disposal shall be done by the authorized/dedicated vehicles only.
- 10 That the unit will keep monitoring of the capped hazardous waste (under category 16.1 mercury bearing sludge generated from mercury cell process, 18882 MT up to March 2005) in their captive SLF, a per the guidelines of CPCB.
- 11 That the industry will take fresh authorisation, whenever they generate above hazardous waste from the State Board.



**RAJASTHAN STATE POLLUTION CONTROL BOARD**  
**4, Institutional Area, Jhalana Doongari, Jaipur-302 004**  
Phone: 0141-5159600,5159695 Fax: 0141-5159697

**Registered**

**File No: F(HSW)/Kota(Ladpura)/20(1)/2010-2011/7299-7301**

**Date:- 17/11/2017**

**Unit Id : 1772**

- 12 The authorization is subject to the conditions stated at Annexure "A" enclosed with the authorization letter and the such conditions as may be specified in the Rules for the time being forced under the Environmental (Protection) Act, 1986.
- 13 The unit has to display and maintain the data online outside the factory main gate in Hindi & English both on a 6'X 4' display board in the manner & format prescribed at Annexure "B" and the report of the Compliance along with photograph shall be submitted to this office & Regional Office, time to time.
- 14 That the annual reports/returns in the form prescribed under the Rules shall be submitted to the Board by 30th June of every year and records of hazardous waste Generation, handling & management shall be maintained according to the provisions of the Hazardous Waste (Management and Transboundary Movement) Rules, 2016 and shown & submitted to the Board as and when asked for.
- 15 The hazardous waste should not be stored for a period beyond 90 days, failing which the authorization shall deemed to be revoked.
- 16 It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016. Non compliance of the Rules or any of the conditions contained in the authorization shall be tantamount to automatic cancellation/revocation of the authorization.
- 17 The operator of the facility shall liable to comply any other conditions as per the guidelines issued by the MoEF or CPCB or State Board related to collection, disposal, reception, storage & treatment of hazardous waste.
- 18 **That Authorization is issued under the provisions of Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with conditions laid down in all other for the time-being in force, rests with the industry/unit/project proponent.**
- 19 That this Authorization shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.



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This bears the approval of the competent authority.

**Yours Sincerely**

**Group Incharge**

**Copy To:-**

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kota you are advise to ensure the compliance of authorization conditions under the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 and submit inspection report within 30 days
- 2 Master File

**Group Incharge**