

# **HALF-YEARLY COMPLIANCE REPORT (IN RESPECT OF THE STIPULATED T&C) OF ENVIRONMENTAL CLEARANCE**

**(E.C. LETTER NO J-11011/481/2011-IA.II (I) dt. 25/06/2015.)**

**(For the Period of: October'2017 TO March'2018)**

**FOR**

**M/s. Sandhya Organic Chemicals PVT.LTD.**

**Location At:**

**Plot No. 808 A/2, 3<sup>rd</sup> Phase,  
GIDC Estate, Vapi-396 195, Dist- Valsad (Gujarat).**

## ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

(E.C. LETTER NO J-11011/481/2011-IA.II (I) dt. 25/06/2015.)

The compliance of Specific conditions & general conditions of Environmental Clearance are as follows:

### List of Finished Products:

Sr. No.	Name of Products	Existing Production (MTPM)	Expansion Production (MTPM)	Total Production after expansion (MTPN)
1.	Aluminum Phosphide	25	75	100
2.	Zinc Phosphide	25	75	100
<b>Name of by-products</b>				
1.	Phosphoric Acid Un-reacted $P_2O_3$	25	75	100

Sr. No.	Condition	Compliance status			
A.	SPECIFIC CONDITIONS:				
1.	National Emission Standards for Pesticide Manufacturing and Formulation Industry issued by the Ministry vide G.S.R. 46(E) dated 3rd February, 2006 and amended time to time shall be followed by the unit.	We regularly monitor the Ambient Air quality as per the National Emission Standard for Pesticide Manufacturing issued by the Ministry vide G.S.R 826 (E) dated 16 <sup>th</sup> November,2009 and amended time to time. The Ambient air quality monitoring test reports (for the period of Oct.'17 to March'18) are enclosed as <b>Annexure-I</b> . The results of Ambient air quality monitoring is provided in the Table no.1 mention below:			
<b>Table No.1: Ambient Air Quality Monitoring Data</b>					
<b>Ambient Air Quality Monitoring Data (Period :October - 2017 to March – 2018)</b>					
Month & Year	Date	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>
Oct-17	09/10/2017	77	24	15.2	21.7
Jan-18	08/01/2018	85	28	16.6	24.2
<b>CPCB Standard</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>
Ambient Air quality monitoring is carried out by NABL accredited laboratory M/s. UniStar Environment and Research Labs Pvt. Ltd., Vapi, NABL Certificate No. T-2239, NABL Valid Until: 14.09.2018.					
2.	Adequate stack height shall be provided to oil/gas fired boiler/thermopack.	We have provided adequate stack height @ 11 m from the ground level for effective dispersion of flue gaseous during boiler operations. <b>STACK HEIGHT FOR NG BASED BOILER:</b>			

		<ul style="list-style-type: none"> <li>• <b>Stack height (H) required as per GSR 176(E)</b> <ul style="list-style-type: none"> <li>○ <b>As per formula <math>H=14Q^{0.3}</math> in m</b>  <math>= 14 \times (0.0023)^{0.3}</math>  <math>= 4.51 \text{ m}</math> </li> </ul> </li> </ul> <p>Where;  Total SO<sub>2</sub> produced (Q)= 0.0023 kg/hr  [Fuel Consumption Rate= 16666.66 kg/hr;  Sulphur Content = 0.0000072%]</p> <ul style="list-style-type: none"> <li>○ <b>Min. stack height required: 11 m</b></li> <li>• <b>Stack height required as per CTE: 11 m</b></li> <li>• <b>Stack height provided: 11 Meter</b></li> <li>• Hence the stack heights attached to Boiler is adequate.</li> <li>• The Flue gas emission Monitoring test reports are enclosed As <b>Annex.-II.</b></li> </ul> <p>The Boiler Chimney photographs are provided as fig.No.1, 2.</p>
3.	Water scrubber (demister and venturi) shall be provided to the reactors to control process emissions viz. P2O5 Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards.	<p>We installed the Water scrubber (demister and venture) to the reactors to control process emissions viz. P<sub>2</sub>O<sub>5</sub>.</p> <p>We regularly monitored the efficiency of scrubber to achieve the prescribed standard. Stack monitoring test report of process emission are enclosed as <b>Annexure-I.</b></p> <p>The Summary of last six month flue gas emission monitoring results is provided as Tale No.2.</p>
	Efficiency of scrubber shall be monitored regularly and maintained properly. Scrubbers vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters.	We are in process to develop the system which will be interlocked with the pollution control equipment so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.
	At no time, the emission levels shall go beyond the prescribed standards. The system should be interlocked with the pollution control equipments so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.	Monitoring of stack emission and air quality have been done on regular basis and they are well within the prescribed limits. However in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not restarted until the desired efficiency has been achieved.

**Table No.2: Stack Monitoring Data**

Stack Monitoring Data (Period : October - 2017 to March - 2018)						
Month & Year	Date	Stack Attached to	Parameter with Results			
			PM mg/m <sup>3</sup>	SO <sub>2</sub> mg/m <sup>3</sup>	NO <sup>2</sup> mg/m <sup>3</sup>	P <sub>2</sub> O <sub>5</sub> mg/Nm <sup>3</sup>
Oct-17	09/10/2017	D.G. set (125 KVA)	33	32	24	-
		Baby Boiler(300Kg/hr)	15	ND	10	-
		ALP/Zinc Reactor	-	-	-	5.4
		Blender	49	-	-	-
		Tablet Machine	62	-	-	-
Jan-18	08/01/2018	D.G. set (125 KVA)	30	29	19	-
		Baby Boiler(300Kg/hr)	17	ND	9	-
		ALP/Zinc Reactor	-	-	-	5.1
		Blender	59	-	-	-
		Tablet Machine	44	-	-	-
CPCB Standard			150	100	50	-
Process gas and flue gas emission monitoring was carried out by NABL accredited laboratory M/s. UniStar Environment and Research Labs Pvt. Ltd., Vapi , NABL Certificate No. T-2239, NABL Valid Until: 14.09.2018.						
4.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system.		We have installed the closed system for handling & transfer of Chemicals/materials. Further, we are taking care of all possible fugitive emissions from the vulnerable sources in plant. We have installed scrubbing system to control these fugitive emissions. We have hand detection system. The Quarterly work place monitoring test report <b>(October'17 to March'18)</b> are enclosed as <b>Annexure-I</b> .			
	Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions.		All our raw materials are in liquid form. So, no dust is generated. As no dust is being generated, hence, dust suppression system with water spray is not required to our unit.			
	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained. The emissions shall conform to the limits stipulated by the GPCB.		We are regularly monitoring, fugitive emissions in the work zone environment; product, raw materials storage area etc. and the records are maintained. The Monthly work place monitoring test report (Oct'17 to March'18) are enclosed as <b>Annexure-I</b> . The emissions are well within the stipulated limits prescribed by the GPCB.			
5.	A proper Leak Detection And Repair (LDAR) Program for pesticide industry shall be prepared and implemented as per CPCB guidelines.		We have leak Detection system and Repair (LDAR) Program for pesticide industry is prepared and implemented as per CPCB guidelines.			
	Focus shall be given for prevention of fugitive emissions for which preventive		Focus is given for prevention of fugitive emissions for which preventive			

	<p>maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given.</p> <p>A preventive maintenance schedule for each unit shall be prepared and adhered to.</p>	<p>maintenance of pumps, valves, pipelines are done. Proper maintenance of mechanical seals of pumps and valves is given.</p> <p>A preventive maintenance schedule for each unit is prepared and adhered to.</p>
6.	<p>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.</p>	<p>We have provided Stack height of 11m attached to D.G. Set for dispersion of gaseous emissions.</p> <p>Stack height calculation is as under:  <math display="block">H=h+0.2\sqrt{KVA}</math> Where h = height of the building level in meters where the generator set is installed = 8 m,  KVA= 125  Calculation: <math>H = 8 + 0.2 \sqrt{125} = 10.23 \text{ m}</math>  Provided stack height is 11 meters which is more than adequate.  Acoustic enclosure is provided to abet noise pollution during operation of D.G. Set.  The Noise Monitoring test report is enclosed as <b>Annexure-I</b>.  The Summary of last six month flue gas emission monitoring results is provided as Tale No.2.  The Noise monitoring was carried out by NABL accredited laboratory M/s. UniStar Environment and Research Labs Pvt. Ltd., Vapi,</p>
7.	<p>The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically.</p> <p>It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the GPCB.</p>	<p>We are regularly submitting the status of compliance of the stipulated environmental clearance conditions to the monitoring agencies.</p> <p>We are regularly submitting Comprehensive EC compliance report for the period of April to September and October to March to the Ministry's regional office at Bhopal well within the stipulated date.  The Six-Monthly EC Compliance Submission dates for the last three year are as under:  1. Period of April'17 to Sept'17, Date: 29.11.2017.  The acknowledge copy of submission is enclosed as <b>Annexure – XIV</b>.  The Six Monthly EC Compliance Submission Acknowledge copies are provided as fig.no.1 and 2.</p>

**Fig.No.1:EC Compliance Submission  
Acknowledge copy**

**SANDHYA ORGANIC CHEMICALS PVT. LTD.**  
**Sandhya Group**  
 Addn & Sales Office : 101-102, Sargam CHS Ltd., 1st Floor, A Wing, S. V Road, Santacruz (W), Mumbai - 400054  
 Regd. Office : Tel : +91-22-61960555 / 20104202 / 20115100 • Fax : +91-22-28194201  
 Plot No. 808/A2, B Phase, G.I.D.C. Vapi - 390 195 Gujarat, India  
 Tel. : +91-299-2430075 / 2430023 • Telefax : +91-299-2430075  
 E-mail : [soc@svcl.com](mailto:soc@svcl.com) • Website : [www.sandhya-group.com](http://www.sandhya-group.com)  
 (An ISO 9001 : 2008 Certified Company)

Date: 29/11/2017  
 To,  
 The Director (S)  
 Ministry of Environment and Forests,  
 Regional Office (Western Region),  
 "Kandriya Parvashan Bhavan"  
 Link Road no.35-S, Rani Shankar Nagar  
 Bhupal - 602 016 (M.P.)

Sub: Submission of EC compliance report for Expansion of Synthetics Organic Chemicals manufacturing Unit at Plot No. 808 A/2, 3rd phase, GIDEC, Vapi, Dist-Valsad (Gujarat) manufacturing Pesticides (Rodenticides), Aluminum Phosphide (25 to 100 MT/PM). By M/s Sandhya Organics Chemicals Pvt. Ltd.

Ref: EC Letter No. J-11011481/2011-IA.II (I) dt. 25/06/2015

Dear Sir,  
 As per the EIA Notification-2006 and your above referred letter, we are submitting the under mentioned information as required.

1. We completed our proposed expansion and started production accordingly.
2. Point wise compliance status to various stipulations as laid down by Ministry in its letter with supporting and reports is enclosed. Also a soft copy of half yearly compliance report (from April 2017 to September 17) is enclosed in CD. We shall submit the half yearly compliance report time to time.
3. Copies of consent to operate under Water Act-1974 and Air Act-1981, and Authorization under Hazardous Waste Rules from the State Pollution Control Board (GPCB) are enclosed for your kind consideration.

We hope that above and enclosed information are as per the requirements and if any further information to be provided kindly inform us at your earliest.

Thanking you,  
 Yours truly,  
 For Sandhya Organic Chemicals Pvt. Ltd.  
 R. J. Shah  
 (General Manager - Works).  
 Encl: A/s.

**Fig.No.2:EC Compliance Submission  
Acknowledge copy**

**SANDHYA ORGANIC CHEMICALS PVT. LTD.**  
**Sandhya Group**  
 Addn & Sales Office : 101-102, Sargam CHS Ltd., 1st Floor, A Wing, S. V Road, Santacruz (W), Mumbai - 400054  
 Regd. Office : Tel : +91-22-61960555 / 20104202 / 20115100 • Fax : +91-22-28194201  
 Plot No. 808/A2, B Phase, G.I.D.C. Vapi - 390 195 Gujarat, India  
 Tel. : +91-299-2430075 / 2430023 • Telefax : +91-299-2430075  
 E-mail : [soc@svcl.com](mailto:soc@svcl.com) • Website : [www.sandhya-group.com](http://www.sandhya-group.com)  
 (An ISO 9001 : 2008 Certified Company)

Date: 29/11/2017  
 To,  
 The Zonal officer (S)  
 Central Pollution Control Board,  
 Zonal Office,  
 "Parivesh Bhavan", opp. VMC Ward office No.10,  
 Suburgam,  
 Vadodra - 390 023,

Sub: Submission of EC compliance report for Expansion of Synthetics Organic Chemicals manufacturing Unit at Plot No. 808 A/2, 3rd phase, GIDEC, Vapi, Dist-Valsad (Gujarat) manufacturing Pesticides (Rodenticides), Aluminum Phosphide (25 to 100 MT/PM). By M/s Sandhya Organics Chemicals Pvt. Ltd.

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 Yours truly,  
 For Sandhya Organic Chemicals Pvt. Ltd.  
 R. J. Shah  
 (General Manager - Works).  
 Encl: A/s.

The levels of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO and VOC in ambient air and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.

The level of PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO and VOCs in ambient air are monitored and displayed at location near the main gate of the company.

8. Solvent management shall be carried out as follows :

There is no any kind of Solvent to be used in manufacturing process of phosphide products; Hence this condition is not applicable.

i. Chilled brine circulation system shall be provided to condensate solvent vapors and reduce solvent losses. It shall be ensured that solvent recovery should not be less than 95%.

ii. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.

iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.

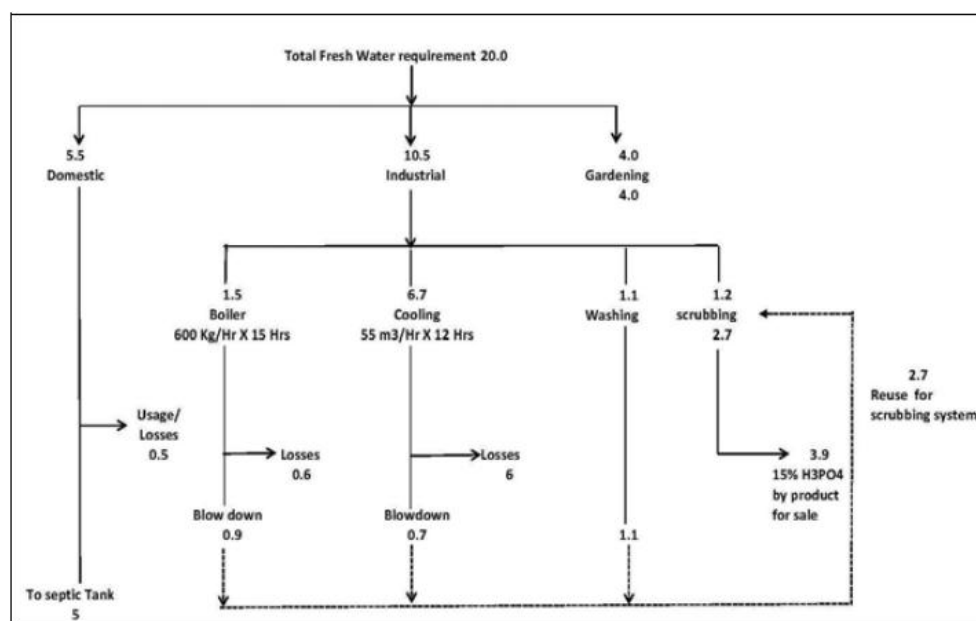
iv. Solvents shall be stored in a separate space specified with all safety measures.

v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.

vi. Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses.

9.	Total fresh water requirement from GIDC water supply shall not exceed 20 m <sup>3</sup> /day.	The water requirement is met from GIDC water supply, Vapi, which is not exceeding 20 m <sup>3</sup> /day. The water balance diagram is provided as fig.no.3.
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**Fig.No.3: Water Balance Diagram**



10.	As proposed, industrial effluent generation shall not exceed 2.7 m <sup>3</sup> /day. Industrial effluent will be used scrubbing media. Phosphoric acid will be generated as by-product.	No wastewater is generated from industrial process; Water from washing is reused for scrubbing system. Total washing and scrubbing water is used to scrub phosphorous pent oxide to recover Phosphoric Acid as by product.
	Domestic effluent shall be treated in the STP. Treated effluent shall be reused for gardening / horticulture purpose.	Domestic waste water is treated in the STP. Treated effluent is reused for gardening / horticulture purpose.
11.	No effluent shall be discharged outside the plant premises and 'Zero' effluent discharge concept shall be followed.	There is no generation of industrial effluent from our industrial activities. We are a ZLD (zero effluent discharge) unit.
12.	Online Monitoring (24x7) system to be installed within treatment plant and data to be uploaded on the company's website.	We have taken note of the condition and we complied with this condition
13.	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	There is no generation of industrial effluent from our industrial activities. We are a ZLD (zero effluent discharge) unit; Hence this condition is Not Applicable. Storm water drain is passed through guard pond.
14.	Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.	Hazardous chemicals have been stored in tanks in tank farms, drums, carboys etc. Flame arresters have been provided on tank farm.

15.	<p>The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.</p>	<p>We obtained the Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2016 and amended as on date for management of Hazardous wastes.</p> <p>The copy of consolidated consent and authorization is enclosed as <b>Annexure-II</b> (CC&amp;A from GPCB).</p> <ul style="list-style-type: none"> <li>• CC&amp;A Order No: AWH-63833,</li> <li>• Date of issue: 31.07.2014.</li> <li>• Valid up to: 27.05.2019.</li> </ul>
16.	<p>The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended in October, 1994 and January, 2000.</p> <p>All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.</p>	<p>We strictly follow the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended in October, 1994 and January, 2000. The Transportation of Hazardous Chemicals is as per the Motor Vehicle Act (MVA), 1989.</p> <ul style="list-style-type: none"> <li>• Shall not smoke while on duty.</li> <li>• We maintain the vehicle in a clean and sanitary condition during its use in a public place.</li> <li>• No person drives a transport vehicle unless an authorization in the driving license granted by the licensing authority.</li> <li>• We have provide Class labels.- In respect of the dangerous or hazardous goods specified in.</li> </ul>
17.	<p>The unit shall make the arrangement for protection of possible fire hazards during Manufacturing process in material handling. Fire fighting system shall be as per the norms.</p>	<p>We have been provided the fi-fighting facility for protection of possible fire hazards during Manufacturing process in material handling.</p>
18.	<p>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.</p>	<p>Occupational health surveillance of the workers is done on a regular basis and the records (of medical examination report) are maintained as per the Factories Act. The total 99 employee people in our unit.</p> <p>The annual medical checkup details of employees are enclosed as <b>Annexure - II</b>. The annual medical checkup details of employees are provided as fig.no.4, 5, 6, 7, 8, 9, 10 and 11.</p>



**Fig.No.4: Appointment of Doctor- Pre/Post Checkup**

**SANDHYA ORGANIC CHEMICALS PVT. LTD.**  
 Addn : 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

**Fig.No.5:Employee medical Checkup report**

**Occufitt** Dr. Ketan S. Desai  
 CONSULTING INDUSTRIAL PHYSICIAN  
 MEDICAL CHECKUP REPORT  
 Name of Industry : SANDHYA ORGANIC CHEMICALS PVT. LTD. Sr.No. : 31 Dt. : 04-Feb-2015  
 Name : SANTOSH VISHWAKARMA Emp. Code : 31  
 Department : Production Age : 38 yrs Sex : Male  
 Present Complaints : Nil  
 Personal History : Chemical burn injury on Rt hand - 2011  
 Family History : Tuberculosis - father  
 Allergy : Nil  
 Occupational exposure : Dust/Fumes, manual handling  
 Height : 155 cms Chest : 85/82 cms Weight : 64 cms BMI : 24.78 (Normal-19 to 25)  
 Weight : 60.3 kgs (Normal / expanded) Hsp : 95 cms Waist/Hip : 0.88 (N upto 0.95)  
 Lymphnodes : Not palpable Vertebrae verte : Absent  
 Oral hygiene : Good  
 Vision : R L Colour vision : Normal  
 Near : 6/6 6/6 Glasses : No  
 Cardio-vascular system :  
 Pulse : 73 per min B.P. : 114/70 mm of Hg. Heart sounds : Normal  
 Others : Nil  
 Respiratory system :  
 Respiratory sounds : Normal Others : Nil  
 Alimentary system :  
 Liver : Not palpable Spleen : Not palpable Tenderness : Absent  
 Central nervous system :  
 Reflexes : Normal Jerks : Normal Others : Nil  
 Orientation to time / Place / Person / Cerebellar sign : NAD  
 Musculo-skeletal system :  
 Physical deformity : Nil Tenderness : Absent  
 Ear-nose-throat : NAD Hydrocele : Absent  
 Genito-urinary system : NAD  
 Skin : Normal  
 Other Findings :  
 Page 1 of 3

**Fig.No.6:Employee medical Checkup report**

**Occufitt** Dr. Ketan S. Desai  
 CONSULTING INDUSTRIAL PHYSICIAN  
 MEDICAL CHECKUP REPORT  
 Name of Industry : SANDHYA ORGANIC CHEMICALS PVT. LTD. Sr.No. : 31 Dt. : 04-Feb-2015  
 Name : SANTOSH VISHWAKARMA Emp. Code : 31  
 Department : Production Age : 38 yrs Sex : Male  
 LABORATORY INVESTIGATIONS  
 Haematology :  
 Total R.B.C. Count : 4.7 m/c/mm  
 Haemoglobin : 14.0 g/dl  
 Total W.B.C. Count : 6500 /c/mm  
 Differential count :  
 Neutrophils : 58 %  
 Lymphocytes : 32 %  
 Monocytes : 01 %  
 Basophils : 00 %  
 ESR : 10 mm  
 Platelets : 65000 /cmm  
 Blood Group : A Positive  
 Urine Examination :  
 Colour : Pale yellow  
 Appearance : Clear  
 Sediments : Absent  
 Chemical Examination :  
 Albumin : Absent  
 Sugar : Absent  
 Ketone bodies : Absent  
 Microscopic Examination :  
 Epithelial cells : 3-4 H. P. F.  
 Pus cells : 2-3 H. P. F.  
 Red blood cells : 0-1 H. P. F.  
 Parasites : Absent  
 Other Test :  
 Blood sugar (F) : 104 mg/dl  
 S.Cholesterol : 135 mg/dl  
 S.Cholinesterase : 4890 U/L  
 Page 2 of 3

**Fig.No.7:Employee medical Checkup report**

**Occufitt** Dr. Ketan S. Desai  
 CONSULTING INDUSTRIAL PHYSICIAN  
 MEDICAL CHECKUP REPORT  
 Name of Industry : SANDHYA ORGANIC CHEMICALS PVT. LTD. Sr.No. : 31 Dt. : 04-Feb-2015  
 Name : SANTOSH VISHWAKARMA Emp. Code : 31  
 Department : Production Age : 38 yrs Sex : Male  
 X-Ray : Not done  
 Auditory : Not done  
 Pulmonary Function Test : Normal spirometry  
 ECG : Not done  
 Observations : Thrombocytopenia  
 Occupational : Nil  
 Disease :  
 Employee is free from any contagious disease and is fit to work in plant / office.  
 Advice : Consult Physician.  
 DR. KETAN S. DESAI  
 CONSULTING INDUSTRIAL PHYSICIAN  
 Page 3 of 3

**Fig.No.8:Employee medical Checkup report**

**DR. KETAN S. DESAI**  
 CONSULTING INDUSTRIAL PHYSICIAN  
 FVC TEST REPORT  
 Patient Name : SANTOSH VISHWAKARMA  
 Age : 38 Sex : M Weight : 60 kg Height : 155 cm  
 Report Date : 11-02-2015  
 Eth. Cor (%) : 80  
 Height (cm) : 155  
 FVC GRAPH :  
 Flow / Volume Graph :  
 Volume / Time Graph :  
 TEST RESULTS :  
 FVC : 1.45 L  
 FEV1 : 1.25 L  
 FEV2 : 1.15 L  
 FEV3 : 1.05 L  
 FEF25-75 : 0.55 L  
 PEF : 1.25 L  
 PEF25 : 0.55 L  
 PEF75 : 0.55 L  
 PEFmax : 1.25 L  
 PEFmin : 0.55 L  
 PEFavg : 0.55 L  
 PEFstd : 0.55 L  
 PEFvar : 0.55 L  
 PEFcoef : 0.55 L  
 PEFcorr : 0.55 L  
 PEFtotal : 0.55 L  
 PEFdiff : 0.55 L  
 PEFsum : 0.55 L  
 PEFprod : 0.55 L  
 PEFquot : 0.55 L  
 PEFpow : 0.55 L  
 PEFexp : 0.55 L  
 PEFint : 0.55 L  
 PEFmax2 : 0.55 L  
 PEFmin2 : 0.55 L  
 PEFavg2 : 0.55 L  
 PEFstd2 : 0.55 L  
 PEFvar2 : 0.55 L  
 PEFcoef2 : 0.55 L  
 PEFcorr2 : 0.55 L  
 PEFtotal2 : 0.55 L  
 PEFdiff2 : 0.55 L  
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 PEFprod2 : 0.55 L  
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 PEFexp2 : 0.55 L  
 PEFint2 : 0.55 L  
 PEFmax3 : 0.55 L  
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 PEFvar3 : 0.55 L  
 PEFcoef3 : 0.55 L  
 PEFcorr3 : 0.55 L  
 PEFtotal3 : 0.55 L  
 PEFdiff3 : 0.55 L  
 PEFsum3 : 0.55 L  
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 PEFint3 : 0.55 L  
 PEFmax4 : 0.55 L  
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 PEFavg4 : 0.55 L  
 PEFstd4 : 0.55 L  
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 PEFtotal4 : 0.55 L  
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 PEFstd5 : 0.55 L  
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 PEFcorr5 : 0.55 L  
 PEFtotal5 : 0.55 L  
 PEFdiff5 : 0.55 L  
 PEFsum5 : 0.55 L  
 PEFprod5 : 0.55 L  
 PEFquot5 : 0.55 L  
 PEFpow5 : 0.55 L  
 PEFexp5 : 0.55 L  
 PEFint5 : 0.55 L  
 PEFmax6 : 0.55 L  
 PEFmin6 : 0.55 L  
 PEFavg6 : 0.55 L  
 PEFstd6 : 0.55 L  
 PEFvar6 : 0.55 L  
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 PEFcorr6 : 0.55 L  
 PEFtotal6 : 0.55 L  
 PEFdiff6 : 0.55 L  
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 PEFprod6 : 0.55 L  
 PEFquot6 : 0.55 L  
 PEFpow6 : 0.55 L  
 PEFexp6 : 0.55 L  
 PEFint6 : 0.55 L  
 PEFmax7 : 0.55 L  
 PEFmin7 : 0.55 L  
 PEFavg7 : 0.55 L  
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 PEFvar7 : 0.55 L  
 PEFcoef7 : 0.55 L  
 PEFcorr7 : 0.55 L  
 PEFtotal7 : 0.55 L  
 PEFdiff7 : 0.55 L  
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 PEFcorr18 : 0.55 L  
 PEFtotal18 : 0.55 L  
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 PEFavg19 : 0.55 L  
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 PEFvar19 : 0.55 L  
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 PEFcorr19 : 0.55 L  
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 PEFavg20 : 0.55 L  
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 PEFcorr20 : 0.55 L  
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 PEFvar22 : 0.55 L  
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 PEFcorr22 : 0.55 L  
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 PEFpow24 : 0.55 L  
 PEFexp24 : 0.55 L  
 PEFint24 : 0.55 L  
 PEFmax25 : 0.55 L  
 PEFmin25 : 0.55 L  
 PEFavg25 : 0.55 L  
 PEFstd25 : 0.55 L  
 PEFvar25 : 0.55 L  
 PEFcoef25 : 0.55 L  
 PEFcorr25 : 0.55 L  
 PEFtotal25 : 0.55 L  
 PEFdiff25 : 0.55 L  
 PEFsum25 : 0.55 L  
 PEFprod25 : 0.55 L  
 PEFquot25 : 0.55 L  
 PEFpow25 : 0.55 L  
 PEFexp25 : 0.55 L  
 PEFint25 : 0.55 L  
 PEFmax26 : 0.55 L  
 PEFmin26 : 0.55

**Fig.No.10:Employee medical Checkup report**

**Occufitt** Dr. Ketan S. Desai  
MEDICAL CHECKUP REPORT

Name of Industry : (SANDHYA ORGANIC CHEMICALS PVT. LT. Sr. No. : 8 Dt. 09-Mar-2016)  
Name : MAHESH K. PATEL Emp. Code : W/23  
Department : (Production) Age : 44 yrs Sex : Male

**LABORATORY INVESTIGATIONS**

Haematology	Patient's value	Reference Range
Total R.B.C. Count :	5.94 m/c/mm	4-5.5 m/c/mm
Hemoglobin :	13.2 gm%	13-16gm% (M), 12-14gm% (F)
Total W.B.C. Count :	7500 /c/mm	5000-10000/c/mm
Differential count		
Neutrophils :	70 %	55 - 70 %
Eosinophils :	03 %	0 - 4 %
Lymphocytes :	25 %	20 - 40 %
Monocytes :	02 %	2 - 6 %
Basophils :	00 %	0 - 1 %
ESR :	mm	
Platelets :	317000 /c/mm	Blood Group : A Positive

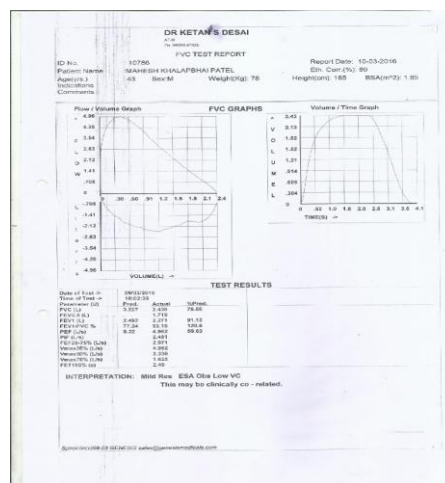
**Urine Examination**

Physical examination	Quantity received :	Q.N.S.
Colour : Pale yellow	10 ml	
Appearance : Clear	Specific gravity :	
Sediments : Absent		
<b>Chemical Examination</b>	Reaction :	Acidic
Albumin : Absent	Bile pigments :	Absent
Sugar : Absent		
Ketone bodies : Absent		
<b>Microscopic Examination</b>		
Epithelial cells : 1-2/H.P.F	Crystals :	Absent
Plus cells : 1-2/H.P.F		
Red blood cells : Absent	Anticholesterol deposits :	Absent
Parasites : Absent		

**Other Test :** Blood sugar (R) 79 mg% B. Cholesterol: 170 mg/dl S. Cholesterol: 9361 SGL

Page 2 of 3

**Fig.No.11:Employee medical Checkup report**



19. As proposed, green belt over 1785 m2 area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.

Greenbelt has been developed as per the guidelines of CPCB, under the supervision of experienced personnel and guidance of local experts. The company has developed greenbelt in about 1785 sq. m. land out of total land of 5336 sq. m.



The green belt photographs and green belt layout is provided as fig. no.12, 13, 14 and 15.

**Fig.No.12: Green Belt Photographs**



**Fig.No.13: Green Belt Photographs**



	<p><b><u>Fig.No.14: Green Belt Photographs</u></b></p> 	<p><b><u>Fig.No.15: Green Belt Photographs</u></b></p> 
20.	The company shall make the arrangement for protection of possible fire and explosion hazards during manufacturing process in material handling.	We comply with this condition. We have taken the steps for protection of possible fire and explosion hazards during manufacturing process in material handling.
21.	At least 2.5 % of the total cost of the project should be earmarked towards the Enterprise social responsibility based on need based item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.	Our unit is small scale unit. So we have been done the CSR activity. The detail of CSR activity is enclosed as <b>Annexure-IV</b> .
22.	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	We had hired only the local labors during construction phase. Hence this condition was not applicable.
	All the construction wastes shall be managed so that there is no impact on the surrounding environment.	All the construction wastes was properly managed to prevent any impact on the surrounding environment.
<b>B.</b>	<b>GENERAL CONDITIONS:</b>	
1.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any other statutory authority	<p>We do comply with the conditions.</p> <ul style="list-style-type: none"> <li>We have started the quarterly monitoring of all applicable parameters of the process stack emissions as per the CC&amp;A issued by the GPCB.</li> <li>There is no effluent generation from process.</li> </ul>

		<ul style="list-style-type: none"> <li>• Ambient Air Quality is also being monitored regularly on monthly bases as per the CPCB guidelines of AAQ monitoring.</li> <li>• The CC&amp;A Compliance report and test report of Monitoring of Stack, AAQM are enclosed as <b>Annexure-II.</b></li> </ul>
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	We undertake that, we shall not carry out any expansion without prior approval of the Ministry of Environment and Forest. There is no deviation/ alternation in the project. Present manufacturing quantity is well within the sanctioned limits for the same.”
3.	The locations of ambient air quality monitoring stations shall be decided in consultation with the Gujarat Pollution Control Board (GPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	<ul style="list-style-type: none"> <li>• The location of ambient air quality monitoring station was decided in consultation with GPCB. We have set up the location of AAQ station on the near security office and near admin office.</li> <li>• Ambient Air Quality is also being monitored on monthly bases as per the CPCB guidelines of AAQ monitoring. The Test reports of AAQM are enclosed as <b>Annexure-I.</b></li> </ul>
4.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	<ul style="list-style-type: none"> <li>• We regularly monitor noise level within the premises through NABL accredited laboratory. The test report of which are enclosed herewith as <b>Annexure: I.</b></li> <li>• The ambient noise level are well within the permissible limit prescribed under Environment (protection) Act, 1986 Rules,1989 viz. 75 dBA (day time ) and 70 dBA (night time). The Summary of noise level monitoring is provided in the Table no.3 mention below:</li> </ul>

**Table No.3: Noise Monitoring Data**

Noise Monitoring Data(Period : October - 2017to March - 2018)						
Month /Year	Date of Monitoring	Time of Monitoring	Within Company premises			
			Noise Level dB (A)			
			Direction			
			East	West	South	North
Oct-2017	09/10/2017	Day Time	56	73	69	60
		Night Time	49	66	61	54
Jan-2018	08/01/2018	Day Time	55	70	67	58
		Night Time	48	64	60	52
<b>NOTE:</b> Permissible Limit CPCB (Day Time): <75 Db(A), Permissible Limit CPCB (Night Time): <70 Db(A)						
Noise monitoring was carried out by NABL accredited laboratory M/S UniStar Environment and Research Labs Pvt. Ltd., Vapi, NABL Certificate No. T-2239, NABL Valid Until: 14.09.2018.						
5.	The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.		We are harvesting rainwater. The harvested rainwater is collected in reserve tank having capacity of 100 KL and the same is used for our industrial purpose during the monsoon season. Since, our project is situated in the GIDC Industrial Area of Vapi having clusters of chemical industries; the groundwater recharge may contaminate the groundwater in due course. Hence, GIDC is not allowing groundwater recharge.			
6.	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.		We assure to maintain zero spillages during handling and transfer of raw materials. However we have provided garland drain to avoid mixing of accidental spillages with domestic waste water or storm water.			
7.	Usage of Personnel Protection Equipments by all employees1 workers shall be ensured.		We provided the PPEs to all our employees/ workers. And its utilization by them is ensured. The PPES photographs are is provided as fig. No. 16 and 17.			



**Fig.No.16:Personal Protective Equipment's**



**Fig.No.17:List of Personal Protective Equipments**

**SANDHYA ORGANIC CHEMICALS PVT. LTD.**  
 Admin & Sales Office : 101-102, Sangam CHS Ltd., 1st Floor, A Wing, S. V. Road, Santacruz (W), Mumbai - 400054.  
 Regd. Office : TEL : +91-22-61560555 / 26104202 / 26151500 • Fax : +91-22-26104201  
 Plot No. 805/A2, B Phase, G.I.D.C. Vapi - 396 195, Gujarat, India.  
 TEL : +91-265-2430875 / 2430225 • Telefax : +91-265-2430375  
 E-mail : soc@svirf.com • Website : www.sandhya-group.com  
 (An ISO 9001 : 2008 & ISO 14001 : 2004 Certified Company)

Date: 02.05.2018

**List of Personnel Protective Equipment (PPE)**

Sr. No.	Item Name
1	Helmet
2	Chemical Filter Mask
3	Dust Mask
4	Gum Boot
5	Safety Shoes
6	Goggles
7	Cotton Hand Gloss
8	Use & Through Hand Gloss
9	Rubber Hand Gloss
10	Cotton Aprrone
11	Bubble Hood
12	Safety Belt

For, Sandhya Organic Chemicals Pvt. Ltd.  
*[Signature]*  
 Authorized Signatory.

8. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

We are given the training about health & safety to our employees from chemicals handling and we do medical checkup of our employees on regular interval. The total 99 employee people in our unit. The employees' medical checkup and safety training records are enclosed as **Annexure - II**. Health & Safety training schedule is provided as fig.no.18, 19, 20 and 21.

**Fig.No.18:Employee medical Checkup report**

**Medical Checkup Report**  
 Dr. Ketan S. Desai  
 H.B.S.C. (F) (C)  
 Consulting Industrial Physician

Name of Industry : SANDHYA ORGANIC CHEMICALS PVT. LT.  
 Name : MAHESH K. PATEL  
 Designation : Production  
 Sr. No. : 20  
 Dt. : 04-Feb-2015  
 Emp. Code : 20  
 Age : 43 yrs Sex : Male

**Present Complaints :** Nil

**Personal History :** Nothing particular  
**Family History :** Diabetes - neither  
**Hypertension :** Nil  
**Allergy :** Snake

**Physical Examination :** Fumes, manual handling

Height : 168 cms Chest : 95/100 cms Weight : 50 cms BMI : 28.20 (Normal-18 to 25)  
 Blood Pressure : 77/70 mm Hg (Normal / expanded)  
 Heart : 100 bpm (Normal)  
 Lungs : Not palpable  
 Abdomen : Good  
 Venous : Not palpable  
 Vitals : Normal  
 Color vision : Normal  
 F. / G. : 5/5  
 Glasses : No

**Cardiovascular system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Respiratory system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Abdominal system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Genitourinary system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Neurological system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Endocrine system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Other systems :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal

**Diagnosis :** Nil

**Recommendations :** Nil

**Fig.No.19:Employee medical Checkup report**

**Medical Checkup Report**  
 Dr. Ketan S. Desai  
 H.B.S.C. (F) (C)  
 Consulting Industrial Physician

Name of Industry : SANDHYA ORGANIC CHEMICALS PVT. LT.  
 Name : MAHESH K. PATEL  
 Designation : Production  
 Sr. No. : 20  
 Dt. : 04-Feb-2015  
 Emp. Code : 20  
 Age : 43 yrs Sex : Male

**Present Complaints :** Nil

**Personal History :** Nothing particular  
**Family History :** Diabetes - neither  
**Hypertension :** Nil  
**Allergy :** Snake

**Physical Examination :** Fumes, manual handling

Height : 168 cms Chest : 95/100 cms Weight : 50 cms BMI : 28.20 (Normal-18 to 25)  
 Blood Pressure : 77/70 mm Hg (Normal / expanded)  
 Heart : 100 bpm (Normal)  
 Lungs : Not palpable  
 Abdomen : Good  
 Venous : Not palpable  
 Vitals : Normal  
 Color vision : Normal  
 F. / G. : 5/5  
 Glasses : No

**Cardiovascular system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Respiratory system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Abdominal system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Genitourinary system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Neurological system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Endocrine system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Other systems :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal

**Diagnosis :** Nil

**Recommendations :** Nil

**Fig.No.20:Employee medical Checkup report**

**Medical Checkup Report**  
 Dr. Ketan S. Desai  
 H.B.S.C. (F) (C)  
 Consulting Industrial Physician

Name of Industry : SANDHYA ORGANIC CHEMICALS PVT. LT.  
 Name : MAHESH K. PATEL  
 Designation : Production  
 Sr. No. : 20  
 Dt. : 04-Feb-2015  
 Emp. Code : 20  
 Age : 43 yrs Sex : Male

**Present Complaints :** Nil

**Personal History :** Nothing particular  
**Family History :** Diabetes - neither  
**Hypertension :** Nil  
**Allergy :** Snake

**Physical Examination :** Fumes, manual handling

Height : 168 cms Chest : 95/100 cms Weight : 50 cms BMI : 28.20 (Normal-18 to 25)  
 Blood Pressure : 77/70 mm Hg (Normal / expanded)  
 Heart : 100 bpm (Normal)  
 Lungs : Not palpable  
 Abdomen : Good  
 Venous : Not palpable  
 Vitals : Normal  
 Color vision : Normal  
 F. / G. : 5/5  
 Glasses : No

**Cardiovascular system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Respiratory system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Abdominal system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Genitourinary system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Neurological system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Endocrine system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Other systems :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal

**Diagnosis :** Nil

**Recommendations :** Nil

**Fig.No.21:Employee medical Checkup report**

**Medical Checkup Report**  
 Dr. Ketan S. Desai  
 H.B.S.C. (F) (C)  
 Consulting Industrial Physician

Name of Industry : SANDHYA ORGANIC CHEMICALS PVT. LT.  
 Name : MAHESH K. PATEL  
 Designation : Production  
 Sr. No. : 20  
 Dt. : 04-Feb-2015  
 Emp. Code : 20  
 Age : 43 yrs Sex : Male

**Present Complaints :** Nil

**Personal History :** Nothing particular  
**Family History :** Diabetes - neither  
**Hypertension :** Nil  
**Allergy :** Snake

**Physical Examination :** Fumes, manual handling

Height : 168 cms Chest : 95/100 cms Weight : 50 cms BMI : 28.20 (Normal-18 to 25)  
 Blood Pressure : 77/70 mm Hg (Normal / expanded)  
 Heart : 100 bpm (Normal)  
 Lungs : Not palpable  
 Abdomen : Good  
 Venous : Not palpable  
 Vitals : Normal  
 Color vision : Normal  
 F. / G. : 5/5  
 Glasses : No

**Cardiovascular system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Respiratory system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Abdominal system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Genitourinary system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Neurological system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Endocrine system :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal  
**Other systems :** P. / Q. : 100 per min. S.P. : 110/74 mm of Hg. Heart sounds : Normal

**Diagnosis :** Nil

**Recommendations :** Nil

9. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EINEMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.

- We do comply with the environmental protection measures and safeguards as proposed in the documents submitted to the Ministry.
- Risk mitigation measures relating to the project are also taken care of and are implemented.
- The EIA/EMP & Risk mitigation measure is enclosed as **Annexure – XII**.
- Since the project site is located within Notified industrial area of GIDC Vapi; public hearing was exempted to the unit.
- We are involved in community developmental measures as well as social welfare measures in our project area for the overall improvement of the environment.

**Recommendations made in the EIA/EMP in respect of environmental management**

➤ **Air pollution Control**

- We have provided Stack height of 11m

➤ **Water & wastewater**

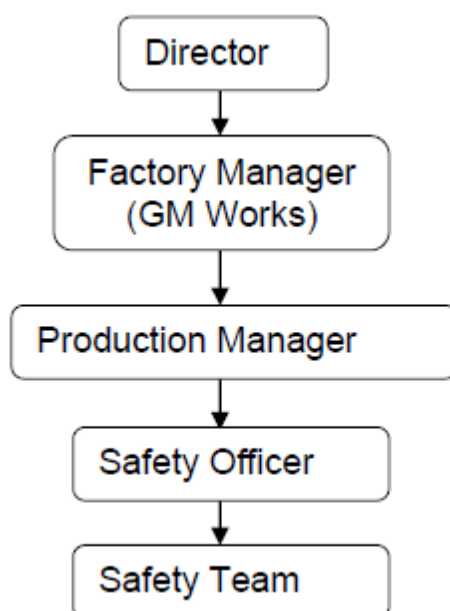
- Domestic waste water generated is

	<p>attached to D.G. Set for dispersion of gaseous emissions.</p> <ul style="list-style-type: none"> <li>• We have provided adequate stack height @ 11 m from the ground level for effective dispersion of flue gaseous during boiler operations.</li> <li>• We have installed scrubbing system to control these fugitive emissions.</li> <li>• We have provided automated closed system for handling and transfer of chemicals.</li> </ul>	<p>disposed off through septic tank into soak pit.</p> <p>➤ <b>Noise</b></p> <ul style="list-style-type: none"> <li>• Acoustic enclosure is provided to abet noise pollution during operation of D.G. Set.</li> <li>• We regularly monitor noise level within the premises through NABL accredited laboratory.</li> <li>• We provided the PPEs to all our employees/ workers. And its utilization by them is ensured.</li> </ul>
	<p>➤ <b>Hazardous Materials</b></p> <ul style="list-style-type: none"> <li>• We have installed the closed system for handling &amp; transfer of Chemicals/materials.</li> <li>• All the materials are identified as hazardous as per MSIHC Rules (2000).</li> <li>• Firefighting systems are provided in storage area and maintained, to cope with emergency, in case of any fire accident occurring in the premises. Total 13 Nos. of fire extinguishers (DCP/CO2) are installed within the company premises.</li> </ul> <p>➤ <b>Occupational Health &amp; Safety</b></p> <ul style="list-style-type: none"> <li>• We are given the training about health &amp; safety to our employees from chemicals handling and we do medical checkup of our employees on regular interval.</li> <li>• Occupational health surveillance of the workers is done on a regular basis and the records (of medical examination report) are maintained as per the Factories Act.</li> </ul>	<p>➤ <b>Greenbelt Development</b></p> <ul style="list-style-type: none"> <li>• Greenbelt has been developed as per the guidelines of CPCB, under the supervision of experienced personnel and guidance of local experts. The company has developed greenbelt in about 1785 sq. m. land out of total land of 5336 sq. m.</li> </ul> <p>➤ <b>Socioeconomic &amp; CSR Activities.</b></p> <ul style="list-style-type: none"> <li>• We are involved in the CSR activities as mentioned in CSR plan for improving the socio-economic condition of the surrounding area and we are also involving local villages and administration for implementing social development plans.</li> <li>• The detail of CSR activity is enclosed as Annexure-XVI.</li> <li>• We are involved in eco-developmental measures as well as community welfare measures in our project area for the</li> </ul>
	<p>➤ <b>Risk Assessment &amp; Safety Measures</b></p> <p><b>Critical Safety Measures</b></p> <ul style="list-style-type: none"> <li>• We have provided Fire hydrant &amp; Fire detection system within process unit</li> </ul>	<p>➤ <b>Safety Measures for Handling</b></p> <ul style="list-style-type: none"> <li>• Display Boards is provided on all storage tanks which includes the name of the product, stored Material of construction, Calibration of tanks and date of Painting.</li> <li>• In order to avoid the accident due to spillage or overflow is provide the level indicators which helps to know the exact liquid level inside the tank.</li> <li>• All the storage tanks is provided with transferring pumps which helps to reduce the risk of tank leakages.</li> </ul>
10.	The company shall undertake CSR activities and all relevant measures for improving the	We are involved in the CSR activities as mentioned in CSR plan for improving the



	socio-economic conditions of the surrounding area.	<p>socio-economic condition of the surrounding area and we are also involving local villages and administration for implementing social development plans. The detail of CSR activity is enclosed as <b>Annexure-XVI</b>.</p> <p>The details of activities undertaken &amp; financial details for same areas provided in the Table no.4 mention below: Contribution to:</p>																											
	<p align="center"><b><u>Table No.4:CSR Chart</u></b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>CSR Expenses</th><th>Amount Paid in Rs. (For the year 2017-2018)</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Local School</td><td>5.00 Lac</td></tr> <tr> <td>2.</td><td>Smasanbhumi</td><td>11.00 Lac</td></tr> <tr> <td>3.</td><td>Cricket Tournament</td><td>50,000</td></tr> <tr> <td>4.</td><td>Arrangement for blood donation camp.</td><td>20,000</td></tr> <tr> <td>5.</td><td>Arrangement for Eye camp.</td><td>25,000</td></tr> <tr> <td>6.</td><td>Development of Maroli Circle</td><td>15.00 Lac</td></tr> <tr> <td>7.</td><td>Barricade for traffic control</td><td>15,000</td></tr> <tr> <td></td><td><b>Total</b></td><td><b>32,10,000</b></td></tr> </tbody> </table>		Sr. No.	CSR Expenses	Amount Paid in Rs. (For the year 2017-2018)	1.	Local School	5.00 Lac	2.	Smasanbhumi	11.00 Lac	3.	Cricket Tournament	50,000	4.	Arrangement for blood donation camp.	20,000	5.	Arrangement for Eye camp.	25,000	6.	Development of Maroli Circle	15.00 Lac	7.	Barricade for traffic control	15,000		<b>Total</b>	<b>32,10,000</b>
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7.	Barricade for traffic control	15,000																											
	<b>Total</b>	<b>32,10,000</b>																											
11.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	We are involved in eco-developmental measures as well as community welfare measures in our project area for the overall improvement of the environment. The measures undertaken as per above point no.-10.																											
12.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	<p>We have established Environmental Management Cell, and permanently appointed plant-in-charge, environmental manager, operators and chemist with qualification and training in the relevant field.</p> <p>In-house laboratory has also been set to carry out the monitoring of basic parameters.</p> <p>And also have contracted with MoEF&amp;CC recognized laboratory for conducting the monitoring of other parameters.</p> <p>The Environmental management cell is provided as fig.no.22.</p>																											

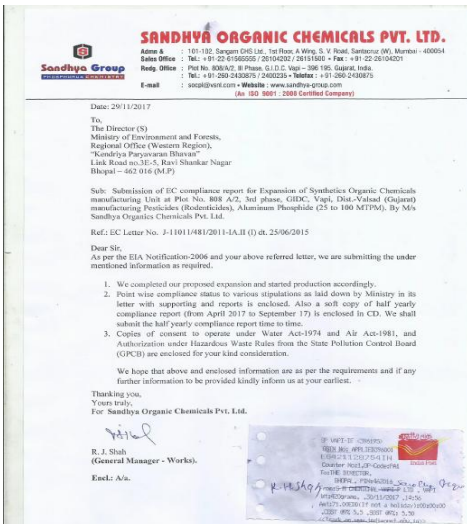
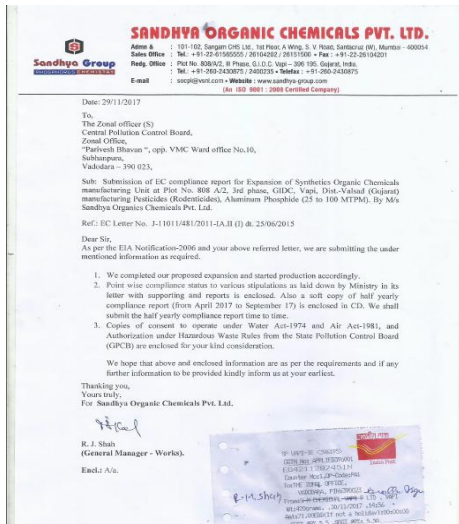
**Fig.No.22:Environmental management cell**






- |     |   |  |
|-----|---|--|
| 13. | <p>The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management pollution control measures shall not be diverted for any other purpose.</p> | <p>We have secured funds (i.e. Rs. 40.00 Lakhs) for capital investment and Rs. 30.00 Lakhs/Annum as recurring cost to implement and maintain the conditions stipulated by the Ministry of Environment &amp; Forests as well as the State Government. As on March 2018 the recurring cost of EMS is 9.56 Lakhs/Annum. The Actual expenses are provided in the table no.5 mention below:</p> |
|-----|---|--|

**Table No.5:EMS**

EMS capital expense (actual)		
Sr. No.	Particulars	(Rs. In Lakhs)
1	Environmental Protection measures	40.00
<b>TOTAL</b>		<b>40.00</b>
Recurring Cost/Annum (year-2017-18)		
1	Environment & Safety Management System	5.35
2	Greenbelt Maintenance	2.00
3	Environment Monitoring expenses	
	Air Monitoring	0.54
	Stack Monitoring	0.79
	Noise Monitoring	0.28
4	Health Checkup expenses	0.60
<b>TOTAL</b>		<b>9.56</b>

14.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal.	A copy of the environment clearance letter has been sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation and Urban local Body.
15.	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Gujarat Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.</p> <p align="center"><b><u>Fig.No.23:EC Compliance Submission Acknowledge copy</u></b></p> 	<p>We are regularly submitting Comprehensive EC compliance report for the period of April to September and October to March to the Ministry's regional office at Bhopal well within the stipulated date.</p> <p>The Six-Monthly EC Compliance Submission dates for the last three year are as under:</p> <p>2. Period of April'17 to Sept'17, Date: 29.11.2017.</p> <p>The acknowledge copy of submission is enclosed as <b>Annexure – XIV</b>.</p> <p>The Six Monthly EC Compliance Submission Acknowledge copies are provided as fig.no.23 and 24.</p> <p align="center"><b><u>Fig.No.24:EC Compliance Submission Acknowledge copy</u></b></p> 
16.	The environmental statement for each financial year ending 31" March in Form-V as is mandated shall be submitted to the Gujarat Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Bhopal Regional Offices of MoEF by email.	<p>We are regularly submitting the environmental statement for each financial year ending 31st March in Form-V to the Gujarat pollution control committee.</p> <p>A acknowledge copy of the Form - V submission to GPCB is enclosed herewith as <b>Annexure: - VI</b>.</p> <p>A acknowledge copy of the Form – V is provided as fig.no.25.</p>

**Fig.No.25:Acknowledge Copy of Form-V**

	<p style="text-align: center;"><b>Fig.No.25:Acknowledge Copy of Form-V</b></p> <div style="text-align: center;">  <p><b>SANDHYA ORGANIC CHEMICALS PVT. LTD.</b></p> <p> <small>Adm. &amp; Sales Office : 101-102, Sangam CHS Ltd., 1st Floor, A Wing, S. V. Road, Santacruz (W), Mumbai - 400054.  Tel. : + 91-22-26150555 / 26104202 / 26151500 • Fax : + 91-22-26104201  Roda Office : Plot No. 808/A/2, II Phase, G.I.D.C. Vapi - 396 105, Gujarat, India.  Tel. : + 91-260-2430875 / 2400235 • Telex : + 91-260-2430875  E-mail : sochl@vsnl.com • Website : www.sandhya-group.com  (Are ISO 9001 : 2008 &amp; ISO 14001 : 2004 Certified Company)</small> </p> </div> <p>PCB ID: 24325 Date: June 14, 2017</p> <p>To, Regional Officer, Gujarat Pollution Control Board, Vapi.</p> <p>Sub: Submission of Environmental Statement (Form – V) for the year 2016 – 2017.</p> <p>Dear Sir, We are submitting Environmental Statement duly filled in prescribed Form – V with all relevant details for the year 2016 – 2017.</p> <p>Thanking you and assuring you our best co-operation always.</p> <p>Sincerely yours, For Sandhya Organic Chemicals Pvt. Ltd.  (Authorized Signatory)</p> <p>Enclosures: 1. Form – V.</p> <div style="text-align: right;">  </div>
17.	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and-a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p> <p>We have already informed to the public by local news paper that we have accorded environmental clearance by the Ministry and copies of clearance letter are available with the state Pollutions Control Board and may also be seen at website of the Ministry of Environmental and Forests at website of the Ministry of Environmental and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. The advertisement (Public notice) has been made within 7 days of obtaining environment clearance. A copy of public notice in newspaper Sandesh dated 29 June 2015 is enclosed herewith as <b>Annexure:-VII</b>. The public notice is provided as fig.no.26 and 27.</p>

**Fig.No.26:Sandesh.dt.30.07.2015.**



**Fig.No.27:Sandesh.dt.29.07.2015.**



18.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
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The project is self-finance by the promoters hence no financial approval from the financial authorities was required. , hence financial closure is not applicable.

- Date of final Approval of the project – E.C. LETTER NO J-11011/481/2011-IA.II (I) dt. 25/06/2015.
- Date of start of the Project – Consent Order No.: AWH-63833, Date of issue:31/07/2014

For **Sandhya Organic Chemicals PVT. LTD.**

(Authorized Signature)

### List of Annexure

No. of Annexure	Name of Annexure
I.	Ambient air Quality, Stack monitoring, Work Place monitoring report of six month ( <b>October 2017 to March 2018</b> )
II.	Copy of Health check-up reports.
III.	Green belt photos
IV.	CSR Activity details
V.	The membership certificate of TSDF site of Ms. VWEMCL.
VI.	Form-V
VII.	Public Notice
VIII.	Site Layout Plan
IX.	Consolidated consent & authorization compliance
X.	MoEF Data Sheet