

**Report of the Joint Committee of Central Pollution Control Board and Punjab State Pollution Control Board: Hon'ble National Green Tribunal through orders dated 08.07.2020 in the matter of OA No. 101 of 2020 titled as 'Suhail Dhurani V/s State of Punjab' and orders dated 17.08.2020 in the matter of OA No. 164 of 2020 titled as 'Satinder Mohan Singh Grover & Ors. V/s Central Pollution Control Board & Ors.'**

**Para No. 1 Comprehensive environmental pollution index (CEPI) of Dera Bassi Area.**

CEPI is calculated for the critically polluted area as well as severe critically polluted areas. However, Tehsil Dera Bassi does not fall under critically polluted area or severe critically polluted areas.

**Para No. 2 Collection of stack emission samples w.r.t. parameters VOC, SO<sub>2</sub>, HC, wherever, applicable.**

The Stack emission samples were collected w.r.t. parameters PM, SO<sub>2</sub>, NO<sub>x</sub>, CO & HCL wherever applicable, and the analysis results have incorporated in the report of joint committee filed before the Hon'ble NGT.

**Para No. 3 Water quality of the drain/ choe.**

The Haibatpura Drain and Dhabi Drain flow in the region and confluencing the river Ghaggar. The Committee also collected the samples from the upstream and downstream of Haibatpura Drain and Dhabi Drain on 17.12.2020 and the analysis results are tabulated as under:-

**Table No. 1  
Analysis results of Surface water monitoring**

S. No.	Parameters	Date of Sampling : 17 <sup>th</sup> December, 2020			
		Upstream of Haibatpura Drain at Village Haripur Hinduan	Downstream of Haibatpura Drain at Village Haibatpur	Upstream of Dhabi Drain at Industrial area Focal Point, Dera Bassi	Downstream of Dhabi Drain near bridge/ flyover Dera Bassi
1.	pH	8.3	7.6	5.7	7.8
2.	COD mg/l	182	508	756	610
3.	BOD mg/l	42	119	194	142
4.	TSS mg/l	32	82	232	124
5.	TDS mg/l	753	1534	1349	1089
6.	O & G mg/l	BDL	BDL	BDL	BDL
7.	Phosphate as P mg/l	2.5	2.2	0.9	07
8.	Sulphide mg/l	BDL	2.4	0.6	5.0
9.	Phenol mg/l	BDL	BDL	BDL	BDL
10.	Cyanide mg/l	BDL	BDL	BDL	BDL
11.	Total Chrome mg/l	BDL	BDL	BDL	BDL
12.	Hexa Chrome mg/l	BDL	BDL	BDL	BDL
13.	Lead as Pb mg/l	BDL	BDL	BDL	BDL
14.	Mercury as Hg mg/l	BDL	BDL	BDL	BDL
15.	Arsenic as As mg/l	BDL	BDL	BDL	BDL

Note: BDL: Below detection limit

The higher COD, as depicted in the table above indicates that the drains receiving untreated domestic waste from the villages located on the banks of the drains alongwith the treated industrial effluent. Due to the higher ratio between COD and BOD of water quality the possibility of incidental discharges from the

industries namely M/s Nectar Lifesciences Ltd. (Unit-1), Village Saidpura, Dera Bassi, M/s Nectar Lifesciences Ltd. (Unit-2), Village Saidpura, Dera Bassi and M/s Punjab Chemical & Crop Protection Ltd. (Agro Division), Village Bhankarpur, Dera Bassi, operating on the banks of the above drains cannot be ruled out.

**Para no. 4 Groundwater quality monitoring:-**

Groundwater samples were collected by the Punjab Pollution Control Board on 10.09.2020 & 19.10.2020 in the vicinity of the drains during the regular monitoring and the joint sampling was carried out by the CPCB and Punjab Pollution Control Board on 17.12.2020. The analysis results are as under:-

**Table no. 2**

S. No.	Location		Results
	<b>Hand pump: Near Gurudwara village Kakrali Ramgarh Road, Dera Bassi Date of collection: 19.10.2020</b>		
	<b>Parameters</b>		
			7.0
1.	pH		
2.	EC $\mu$ s/cm		1764
3.	TDS mg/l		1038
4.	TFS mg/l		927
5.	T.H. mg/l		176
6.	Ca mg/l		36
7.	F mg/l		0.3
8.	Cl mg/l		144
9.	SO4 mg/l		38
10.	T. alkaline mg/l		310
11.	Na mg/l		511
12.	K mg/l		7
13.	SAR		16.7
14.	Fe mg/l		0.29
15.	Zn mg/l		BDL
16.	COD		BDL
17.	BOD		BDL
18.	Turbidity		BDL
19.	TSS		BDL
20.	TKN		BDL
21.	PO4		BDL
22.	P. Alkaline		BDL
23.	T.Coli		BDL
24.	F.Coli		BDL
25.	T.Cr.		BDL
26.	Ni		BDL
27.	Pb		BDL
28.	Cu		BDL
29.	Cd		BDL
30.	Hg		BDL
31.	As		BDL
Sr. No.	Location		Piezowell No. 1
	<b>Piezometer : M/s Punjab Chemical &amp; Crop Protection Ltd., Date of collection: 10.09.2020</b>		
	<b>Parameters</b>		
1)	*Chemical Oxygen Demand mg/l		BDL
2)	*Bio-Chemical Oxygen Demand mg/l		BDL
3)	*Ammonical Nitrogen mg/l		BDL
4)	Total Alkalinity mg/l		220
5)	*Fluoride mg/l		0.22

6)	Chloride mg/l	45
7)	*Sodium mg/l	76
8)	*Potassium mg/l	6
9)	Total Dissolved Solids mg/l	452
10)	*Total Fixed Solids mg/l	421
11)	*Total Hardness mg/l	228
12)	Calcium mg/l	53
13)	Iron mg/l	BDL
14)	*Nickel mg/l	BDL
15)	Total Chrome mg/l	BDL
16)	Zinc mg/l	0.3
17)	Copper mg/l	BDL
18)	Lead mg/l	BDL
19)	Cadmium mg/l	BDL
20)	Total Coliform MPN/ 100 ml	BDL
21)	Total Feacal Coliform MPN/100 ml	BDL
22)	Alpha HCH	BDL
23)	Beta HCH	BDL
24)	Gama HCH	BDL
25)	Anilophos	BDL
26)	Chloropyrifos	BDL
27)	DDT	BDL
28)	4'DDT	BDL
29)	Endosulphan	BDL
30)	Endosulphan-2	BDL
31)	Dieldrin	BDL
32)	Aldrin & Malathian	BDL
<b>Sr. No.</b>	<b>Location</b>	<b>Piezowell No.2</b>
	<b>Piezometer : M/s Punjab Chemical &amp; Crop Protection Ltd., Date of collection: 10.09.2020</b>	
	<b>Parameters</b>	
33)	*Chemical Oxygen Demand mg/l	BDI
34)	*Bio-Chemical Oxygen Demand mg/l	BDL
35)	*Ammonical Nitrogen mg/l	BDL
36)	Total Alkalinity mg/l	224
37)	*Fluoride mg/l	0.2
38)	Chloride mg/l	40
39)	*Sodium mg/l	72
40)	*Potassium mg/l	6
41)	Total Dissolved Solids mg/l	442
42)	*Total Fixed Solids mg/l	418
43)	*Total Hardness mg/l	226
44)	Calcium mg/l	44
45)	Iron mg/l	BDL
46)	*Nickel mg/l	BDI
47)	Total Chrome mg/l	BDL
48)	Zinc mg/l	0.28
49)	Copper mg/l	BDL
50)	Lead mg/l	BDL
51)	Cadmium mg/l	BDL
52)	Total Coliform MPN/ 100 ml	BDL
53)	Total Feacal Coliform MPN/100 ml	BDL
54)	Alpha HCH	BDL
55)	Beta HCH	BDL
56)	Gama HCH	BDL
57)	Anilophos	BDL
58)	Chloropyrifos	BDL
59)	DDT	BDL
60)	4'DDT	BDL
61)	Endosulphan	BDL
62)	Endosulphan-2	BDL
63)	Dieldrin	BDL
64)	Aldrin & Malathian	BDL
<b>Sr. No.</b>	<b>Location</b>	<b>Piezometer</b>

	<b>Piezometer : M/s Nectar Lifesciences Ltd. (Unit-2), Date of collection:-17.12.2020</b>	<b>near Admin Block</b>
	<b>Parameters</b>	
1.	pH	7.2
2.	Electrical Conductance $\mu\text{s/cm}$	585
3.	TDS mg/l	380
4.	Total Fixed Solids mg/l	323
5.	Total Hardness mg/l	167
6.	Magnesium Hardness mg/l	99
7.	Chloride mg/l	18
8.	Sulphate mg/l	20
9.	Fluoride mg/l	2
10.	Nitrate as NO <sub>3</sub> mg/l	1.9
11.	Total Alkalinity mg/l	179
12.	Zinc mg/l	0.12
13.	TSS	BDL
14.	COD	BDL
15.	BOD	BDL
16.	Amm.N	BDL
17.	Turb	BDL
18.	PO <sub>4</sub>	BDL
19.	NO <sub>2</sub>	BDL
20.	P.ALK	BDL
21.	As	BDL
22.	Ni	BDL
23.	Cu	BDL
24.	Hg	BDL
25.	Total Cr	BDL
26.	Cd	BDL
27.	Pb	BDL
28.	Fe	BDL
29.	Cyanide	BDL
30.	Phenols	BDL
<b>Sr. No.</b>	<b>Location Piezometer : M/s Nectar Lifesciences Ltd. (Unit-2), Date of collection:-17.12.2020</b>	<b>Piezometer near power plant</b>
	<b>Parameters</b>	
31.	pH	7.1
32.	Electrical Conductance $\mu\text{s/cm}$	538
33.	TDS mg/l	350
34.	Total Fixed Solids mg/l	298
35.	Total Hardness mg/l	146
36.	Magnesium Hardness mg/l	60
37.	Chloride mg/l	16
38.	Sulphate mg/l	17
39.	Fluoride mg/l	1.2
40.	Nitrate as NO <sub>3</sub> mg/l	1.3
41.	Total Alkalinity mg/l	168
42.	Zinc mg/l	BDL
43.	TSS	BDL
44.	COD	BDL
45.	BOD	BDL
46.	Amm.N	BDL
47.	Turb	BDL
48.	PO <sub>4</sub>	BDL
49.	NO <sub>2</sub>	BDL
50.	P.ALK	BDL
51.	As	BDL
52.	Ni	BDL
53.	Cu	BDL
54.	Hg	BDL
55.	Total Cr	BDL
56.	Cd	BDL
57.	Pb	BDL
58.	Fe	BDL

59.	Cyanide	BDL
60.	Phenols	BDL

The above analysis results reveals that ground water quality in the catchment is fit for drinking purpose.

**Para no. 5 Quality of Soil:** Soil samples from the plantation area of Nector Lifesciences-II, Derabassi and nearby agricultural fields adjacent to Haibatpura drain were collected on 21.12.2020 and sent for analysis. Report of the same is still awaited.

**Para no.6 Hazardous waste generation and its disposal by the industries:**

The detail of different category of hazardous waste generated alongwith its authorized quantity and its disposal by the industries mentioned in the aforesaid order and found operating at a distance of about 1 Km from the closure to the residence of the complainants is as under:

**1) SBL Speciality Coating Pvt. Ltd., Haibatpur Road, Dera Bassi**

Sr. No.	Hazardous waste Category	Quantity	Disposal arrangements
1)	Category 33.1 – “Empty barrels/ containers / liners contaminated with hazardous chemicals /wastes”	23.38 Tonn/annum	Through authorized recycler / common facility
2)	Category 5.1- “Waste oil”	@ 0.1 KL/annum	Through authorized recycler / common facility
3)	Category 5.2 – “Wastes or residues containing oil”	@ 6.68 Tonn/annum	Through authorized recycler / common facility
4)	Category 21.1 – “Process wastes, residues and sludges”	@ 3.43 Tonn/annum	Through authorized recycler / common facility

**2) KDDL Limited, Haibatpur Road, Dera Bassi**

Sr. No.	Hazardous waste Category	Quantity	Disposal arrangements
1)	Category 5.1-Used or spent oil	@ 0.36 KL/Annum	Through authorized recycler / common facility
2)	Category 5.2- Wastes or residues containing oil	@ 0.156 T/Annum	Through authorized recycler / common facility
3)	Category 21.1- Process wastes, residues and sludges	@0.084 T/Annum	Through authorized recycler / common facility
4)	Category 35.3- Chemical sludge from waste water treatment	@ 7.5 T/ Annum	Through authorized recycler / common facility

**3) Hansa Tubes Pvt. Ltd., Haibatpur Road, Dera Bassi**

Sr. No.	Hazardous waste Category	Quantity	Disposal arrangements
1)	Category 5.1-Used or spent oil	@ 0. 10 KL/Ann um	Through authorized recycler / common facility
2)	Category 5.2- Wastes or residues containing oil	@ 0.120 KL/Ann um	Through authorized recycler / common facility
3)	Category 34.2- Sludge from treatment of waste water arising out of cleaning / disposal of barrels / cont	@ 3.650 T/Annum	Through authorized recycler / common facility

**4) Contour Automotive Products Ltd., Village Bhankarpur, Mubarikpur Road, Dera Bassi**

Sr. No.	Hazardous waste Category	Quantity	Disposal arrangements
1)	Category 5.1-Used or spent oil	@ 0.1 KL/Annum	Through authorized recycler / common facility
2)	Category 5.2 Wastes or residues containing oil	@ 0.2 T/Annum	Through authorized recycler / common facility
3)	Category 21.1 Paint or Paint Residues	@ 0.1 T/Annum	Through authorized recycler / common facility
4)	Category 33.1 Empty barrels/containers /liners contaminated with hazardous chemicals /wastes	@ 300 Number/Annum	Through authorized recycler / common facility
5)	Category 35.1 Exhaust Air or Gas cleaning residue	@ 15 T/Annum	Through authorized recycler / common facility

**5) Nectar Lifesciences Ltd. (Unit-2), Village Saidpura, Tehsil Dera Bassi**

Sr. No.	Hazardous waste Category	Quantity	Disposal arrangements
1)	Category 28.1- Process Residue and wastes	@ 41.975 T/Annum	Through authorized recycler / common facility
2)	Category 28.4-Off specification products	@ 0.365 T/Annum	Through authorized recycler / common facility
3)	Category 28.3- Spent carbon	@ 5.84 T/Annum	Through authorized recycler / common facility
4)	Category 33.1- Empty barrels/containers /liners contaminated with hazardous chemicals /wastes	@ 3650 Number/ Annum	Through authorized recycler / common facility
5)	Category 35.3- Chemical sludge from waste water treatment	@ 25.55 T/Annum	Through authorized recycler / common facility
6)	Category 37.2-Ash from incinerator and flue gas cleaning residue	@ 32.85 T/Annum	Through authorized recycler / common facility
7)	Category 36.1- Any process or distillation residue	@ 73 T/Annum	Through authorized recycler / common facility
8)	Category 5.1-Used or spent oil	@ 3.65 T/Annum	Through authorized recycler / common facility
9)	Category 36.2- Spent carbon or filter medium	@ 7.3 T/Annum	Through authorized recycler / common facility
10)	Category 5.2- Wastes or residues containing oil	@ 0.002 T/Annum	Through authorized recycler / common facility
11)	Category 33.2- Contaminated cotton rags or other cleaning materials	@ 0.002 T/Annum	Through authorized recycler / common facility

**6) Nectar Lifesciences Ltd. (Unit-1), Village Saidpura, Tehsil Dera Bassi**

Sr. No.	Hazardous waste Category	Quantity	Disposal arrangements
1)	Category 28.1- Process Residue and wastes	@ 1.42 T/Annum	Through authorized recycler / common facility
2)	Category 28.3- Spent carbon	@ 10.95 T/Annum	Through authorized recycler / common facility
3)	Category 28.4-Off specification products	@ 0.365 T/Annum	Through authorized recycler / common facility
4)	Category 33.1- Empty barrels/containers /liners contaminated with hazardous chemicals /wastes	@ 1460 Number/ Annum	Through authorized recycler / common facility
5)	Category 36.1- Any process or distillation residue	@ 18.25 T/Annum	Through authorized recycler / common facility
6)	Category 36.2- Spent carbon or filter medium	@ 4.38 T/Annum	Through authorized recycler / common facility
7)	Category 5.1-Used or spent oil	@ 1 KL/Annum	Through authorized recycler

			/ common facility
8)	Category 5.2- Wastes or residues containing oil	@ 0.002 T/Annum	Through authorized recycler / common facility
9)	Category 33.2- Contaminated cotton rags or other cleaning materials	@ 0.002 T/Annum	Through authorized recycler / common facility

**7) Punjab Chemicals & Crop Protection Ltd. (Agro-Division), Village Bhankarpur, Dera Bassi**

Sr. No.	Hazardous waste Category	Quantity	Disposal arrangements
1)	Category 5.1-Used or spent oil	@ 12.6 KL/Annum	Through authorized recycler / common facility
2)	Category 28.1- Process Residue and wastes	@ 0.6 T/Annum	Through authorized recycler / common facility
3)	Category 35.1- Exhaust Air or Gas cleaning residue	@ 1.058.85 T/Annum	Through authorized recycler / common facility
4)	Category 37.1- Sludge from wet scrubber s	@ 0.6 T/Annum	Through authorized recycler / common facility
5)	Category 37.2-Ash from incinerator and flue gas cleaning residue	@ 2.904 T/Annum	Through authorized recycler / common facility
6)	Category 37.3- Concentration or evaporation residues	@ 639.845 T/Annum	Through authorized recycler / common facility
7)	Category 33.1- Empty barrels/containers /liners contaminated with hazardous chemical s /wastes	@ 0.12 T/Annum	Through authorized recycler / common facility

**Para no. 7 Disposal of solid waste including rice husk ash and its management**

Rice husk is used as a fuel in several industries and the detail of its consumption and its disposal is as under:

**1) Nectar Lifesciences Ltd (Unit-1), Village Saidpura Tehsil Dera Bassi:**

The authorized consumption of rice husk is 16 MTD and fuel ash generated is shifted to its sister concern unit M/s Nectar Lifesciences Ltd (Unit-2), Village Saidpura Tehsil Dera Bassi operating adjacent to the premises from where it is further supplied to the nearby farmers to use it as a manure / brick kilns to use it in preparation of brick earth and also dumped to low lying area in village Nimbuan, Dera Bassi.

**2) Nectar Lifesciences Ltd (Unit-2), Village Saidpura Tehsil Dera Bassi:**

The authorized consumption of rice husk is 520 MTD and fuel ash generated is further supplied to the nearby farmers to use it as a manure / brick kilns to use it in preparation of brick earth and also dumped to low lying area in village Nimbuan, Dera Bassi.

**3) Rajasthan Liquors Ltd. (Distillery Division), Village Haripur Hinduan, Tehsil Dera Bassi:**

The authorized consumption of rice husk is 130 MTD and fuel ash generated is further supplied to the nearby farmers to use it as a manure / brick kilns to use it in preparation of brick earth.

**Para no. 8 Ambient air quality of Dera Bassi area**

There are 02 no. ambient air quality monitoring stations installed in Dera Bassi town for monitoring of ambient air. Yearly results of the same are as under:

**Station Name: - PCCPL, Mubarikpur Road, Dera Bassi**

Month	RSPM ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )
	2020	2020	2020
January	118	13	7
February	104	12	6
March	92	11	6
April	--	--	--
May	107	16	8
June	107	17	7
July	89	16	6
August	64	18	6
September	82	17	6
October	127	27	9
<b>Average</b>	<b>98.88</b>	<b>16.33</b>	<b>6.78</b>

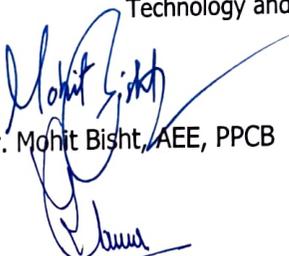
**Station Name: - M/s Winsome Yarns Ltd., Barwala Road, Dera Bassi.**

Month	RSPM ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )
	2020	2020	2020
January	112	12	6
February	103	13	6
March	112	14	7
April	--	--	--
May	110	16	8
June	90	16	6
July	91	17	6
August	63	19	6
September	91	17	6
October	125	26	9
<b>Average</b>	<b>99.67</b>	<b>16.67</b>	<b>6.67</b>

The prescribed standards under NAMP for RSPM is 100  $\mu\text{g}/\text{m}^3$  (24 hours time weighted avg.). However, the above results reveals that air quality of Tehsil Derabassi is slightly exceeding in the month of January, February, March, May, June & October the prescribed limits. The above may be due to the construction activities in the nearby areas and also due to the traffic congestion in the town. However, Action plan for the mitigation of air pollution of Tehsil Dera Bassi already notified by Directorate of Environment and Climate Change Department of Science, Technology and Environment, Government of Punjab vide dated 30.04.2019. The progress w.r.t various activities delineated in the Action Plan related to each stake holder department is being reviewed on monthly basis by the Air Quality Monitoring Committes constituted at District/Sub Division Level.

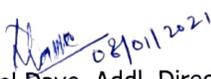
**Para no. 9 Action plan for mitigation of pollution in the area with relevant details.**

Action plan for the mitigation of air pollution of Tehsil Dera Bassi already notified by Directorate of Environment and Climate Change Department of Science, Technology and Environment, Government of Punjab vide dated 30.04.2019.

  
Er. Mohit Bisht, AEE, PPCB

  
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