

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

M.A No. 879 of 2013 in Original Application No. 299 of 2013

Krishan Kant Singh & Anr.

Applicant

Vs

National Ganga River Basin Authority & Ors

Respondent

Compliance Statement on behalf of Central Pollution Control Board.

In compliance of the order passed by the Hon'ble Tribunal dated 05-08-2014 and dated 15-09-2014 the status of Grossly Polluting Industries (GPI) operating in the state of Uttar Pradesh is enclosed.

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Annexure	Context	Page No.
I.	Inspection reports of GPIs (sugar mills & distillery units) operating under Regional Office, UPPCB, Aligarh.	1-28
II.	Inspection Reports with regards to the industries listed in Annexure A of the report dated 2 nd July, 2014 "Harduaganj Thermal Power Station, Kashimpur, Aligarh of M/s Uttar Pradesh Rajya Vidyut Utpadan Ltd."	29-32

DELHI
The October 24, 2014


Suneel Dave
Sr. Environmental Engineer & Incharge NGRBA
Central Pollution Control Board
Parivesh Bhawan
East Arjun Nagar
Delhi -110032

Encl. As Above

Through Raj Kumar
Advocate
Chamber No. 774
Lawyers Chamber
Saket New Delhi



CENTRAL POLLUTION CONTROL BOARD

NGRBA Cell

Joint inspection Report: Sugar

Date of Inspection: 14.10.2014

A: General Information						
1.	Name of the unit and address	M/s Anand Agrochem, Village-Gopi Ladhwa, Tehsil-Koil, Aligarh. (U.P)				
2.	<ul style="list-style-type: none">Name of the Proprietor/Contact personDesignationContact No.	No representative person available only security staff available				
3.	Year of Commissioning.	2005 (04.12.2005)				
4.	Sector	Private				
5.	Production details. <ul style="list-style-type: none">ProductsInstalled Prod. CapOperating capacity	Sugar				
6.	Cane crushing capacity	2500 MTD (As per record available with UPPCB)				
7.	Cane crushed last year	Nil				
8.	Molasses generation	Nil				
9.	Press Mud generation	Nil				
10.	Operational status	Closed by own – Since last 2 year as informed by security staff.				
B: Water Pollution and its Control:						
1.	Water Supply Source(s)	Ground Water (Tube well (02 Nos.))				
	Water Consumption (KLD)	<table border="1"><tr><td>Industrial</td><td>-</td></tr><tr><td>Domestic</td><td>-</td></tr></table>	Industrial	-	Domestic	-
Industrial	-					
Domestic	-					
2.	Water Meter to show consumption	Not available				
3.	Flow measuring device installed at outlet of ETP	Not available				
4.	Waste Water generation (KLD) (before treatment) <ul style="list-style-type: none">➤ Industrial➤ Domestic	-				

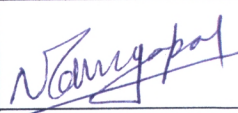

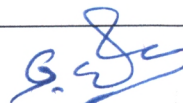
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5.	Waste Water treatment capacity (KLD) ➤ Industrial ➤ Domestic	-				
6.	Details of ETP ➤ ETP Description with flow diagram ➤ Details of Reverse Osmosis plant, if any ➤ Details of Multi Effect Evaporator, if any	Collection Tank--» Equalisation Tank --» Chemical Dosing --» Primary Clarifier --» Aeration Tank --» Surface aerator --» Secondary Clarifier --» Sand/Activated carbon filter --» Discharge in to drain No. No.				
7.	Waste water discharged (after treatment) (KLD) ➤ Industrial Domestic	-				
8.	Mode of disposal of treated effluent (Details)	Surface Water through drain				
9.	Sample distributed into no. of parts (2/3)	N/A				
10.	Sludge disposal mode	-				
11.	Effluent collection locations & analysis results (if collected)	Locations	Parameters			
			pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)
		Outlet				
		Others				
(I) Information regarding Ferti-irrigation						
1.	Details of treatment effluent before Ferti-irrigation	NA				
2.	Command area for irrigation (available land area)	NA				
3.	System for dilution of treated effluent required for ferti-irrigation	NA				
4.	System of transportation of treated effluent upto field.	NA				
5.	Formal agreements with farmers for using treated effluent	NA				
6.	Storage facility available for treated effluent during low demand period	NA				
7.	Quality of effluent being used for ferti-irrigation	NA				
8.	Ground water monitoring network	Not available				

C: Air Pollution and its Control		
1.	Sources of Air Pollution	-
2.	➤ Type of Fuel used with consumption	-
3.	➤ Stack details	One
4.	➤ APCS details	-
5.	Samples collections points (if collected)	PM (mg/Nm ³): NA

D. Route of effluent to reach river Ganga/Yamuna
(Please indicate starting from the outlet drain of the unit)

ETP Outlet – Local Drain – Kali River – Ganga River

1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal Scientist – D CPCB, Delhi	
		Pramod Mishra Regional Officer UPPCB, Aligarh.	
		G.S. Srivastav Assistant Environment Engineer UPPCB, Aligarh.	
2	Date of report Submission	21.10.2014	

Anand Agrochem India Ltd., Gopi Ladhoa, Aligarh



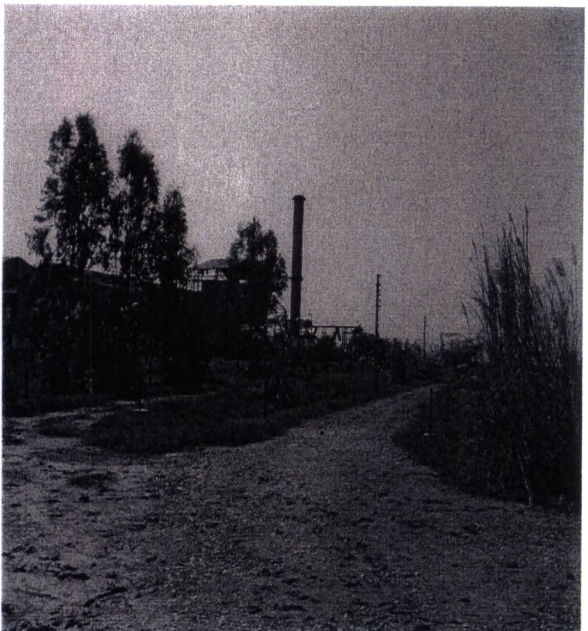
Equalization tank



Clarifier



Aeration Tank



Stack



CENTRAL POLLUTION CONTROL BOARD
NGRBA Cell

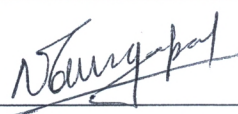

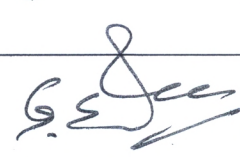
Joint inspection Report: Sugar

Date of Inspection: 14.10.2014

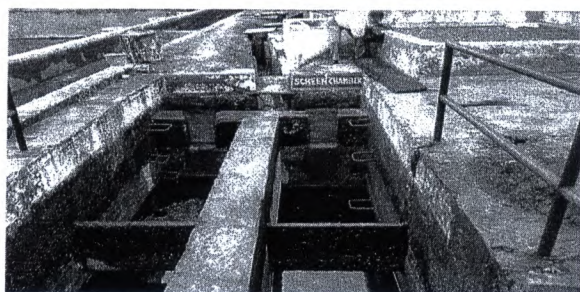
A: General Information						
1.	Name of the unit and address	M/s. Neoli Sugar Factory Ltd., Neoli, Kasganj (U.P.) 207402				
2.	<ul style="list-style-type: none"> Name of the Proprietor/Contact person Designation Contact No. 	Mr. N.L. Srivastava (Sr. Manager RPA) 05744-275068, 275073				
3.	Year of Commissioning.	October, 1933				
4.	Sector	Private				
5.	Production details. <ul style="list-style-type: none"> Products Installed Prod. Cap Operating capacity 	Sugar 250 Ton Sugar/Day 225 Ton Sugar/Day				
6.	Cane crushing capacity	2500 TCD				
7.	Cane crushed last year	138582.914 Ton (2013-14)				
8.	Molasses generation	6802.67 Ton				
9.	Press Mud generation	4670.244 Ton				
10.	Operational status	Operating – Not in Operation due to off Season (RT-8C Attached) since 16 th March, 2014				
B: Water Pollution and its Control:						
1.	Water Supply Source(s)	1. Tubewell (03 Nos.)				
	Water Consumption (KLD)	<table border="1"> <tr> <td>Industrial</td> <td>1642 KL/Day (During Season)</td> </tr> <tr> <td>Domestic</td> <td>180 KL/Day (During Season)</td> </tr> </table>	Industrial	1642 KL/Day (During Season)	Domestic	180 KL/Day (During Season)
Industrial	1642 KL/Day (During Season)					
Domestic	180 KL/Day (During Season)					
2.	Water Meter to show consumption	Not available				
3.	Flow measuring device installed at outlet of ETP	Available (V. Notch)				
4.	Waste Water generation (KLD) (before treatment) <ul style="list-style-type: none"> ➤ Industrial ➤ Domestic 	- 800 KL/Day (Aprox.) (As per UPPCB Consent) 120 KL/Day (Aprox.)				

5.	Waste Water treatment capacity (KLD) ➤ Industrial ➤ Domestic	1500 KLD Septic Tank receive entire domestic waste																			
6.	Details of ETP ➤ ETP Description with flow diagram ➤ Details of Reverse Osmosis plant, if any ➤ Details of Multi Effect Evaporator, if any	Screen Chamber --» Oil & Grease Trap --» Equalization Tank --» Anaerobic Filler tank --» Aeration Tank --» Secondary Clarifier --» Sludge Drying Beds (03 Nos.) No. No.																			
7.	Waste water discharged (after treatment) (KLD) ➤ Industrial ➤ Domestic	NA 100 KLD																			
8.	Mode of disposal of treated effluent (Details)	On land 1. Own Land irrigation 2. Gardening & wet Scrubber (Boiler)																			
9.	Sample distributed into no. of parts (2/3)	N/A																			
10.	Sludge disposal mode	As Manure in own Land/Land filling (Press Mud)																			
11.	Effluent collection locations & analysis results (if collected)	<table border="1"> <thead> <tr> <th rowspan="2">Locations</th><th colspan="4">Parameters</th></tr> <tr> <th>pH</th><th>BOD (mg/l)</th><th>COD (mg/l)</th><th>TSS (mg/l)</th></tr> </thead> <tbody> <tr> <td>Outlet</td><td></td><td></td><td></td><td></td></tr> <tr> <td>Others</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Locations	Parameters				pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	Outlet					Others				
Locations	Parameters																				
	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)																	
Outlet																					
Others																					
(I) Information regarding Ferti-irrigation																					
1.	Details of treatment effluent before Ferti-irrigation	A Above																			
2.	Command area for irrigation (available land area)	53 Acre (Own Land)																			
3.	System for dilution of treated effluent required for ferti-irrigation	No.																			
4.	System of transportation of treated effluent upto field.	Common Drain of the Village																			
5.	Formal agreements with farmers for using treated effluent	NA																			
6.	Storage facility available for treated effluent during low demand period	No																			
7.	Quality of effluent being used for ferti-irrigation	Details Annexed																			
8.	Ground water monitoring network	Not available																			

C: Air Pollution and its Control		
1.	Sources of Air Pollution	Boilers Two Nos.
2.	➤ Type of Fuel used with consumption	Bagasse
3.	➤ Stack details	1. Dia 3.04 Meter, Height – 45 Meter 2. Dia 3.04 Meter, Height – 42 Meter
4.	➤ APCS details	1. Wet Scrubber in One Stack. 2. Multi Cyclone Dust Collector in Another Stack (Wet Scrubber under Commissioning)
5.	Samples collections points (if collected)	PM (mg/Nm ³): Yes (At the Place of 8 Time of Dia)
D. Route of effluent to reach river Ganga/Yamuna (Please indicate starting from the outlet drain of the unit) Effluent discharge on land for irrigation		

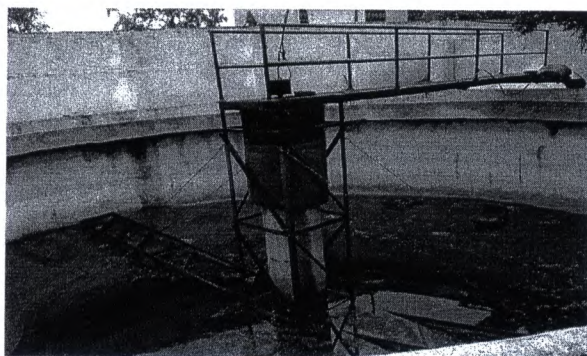
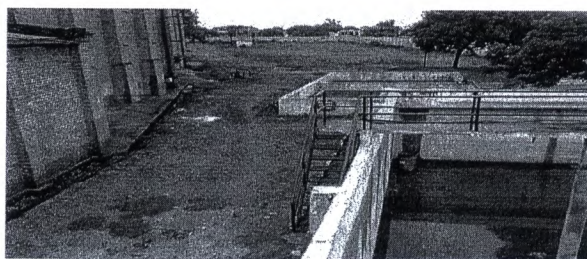
1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal Scientist – D CPCB, Delhi	
		Pramod Mishra Regional Officer UPPCB, Aligarh.	
		G.S. Srivastav Assistant Environment Engineer UPPCB, Aligarh.	
2	Date of report Submission	21/10/2014	

Neoli Sugar Factory Ltd. Kasganj



Screen chamber & Oil & Grease trap

Anaerobic filler tank



Equalization tank & Clarifier (top to bottom)



Stacks



REGIONAL OFFICE & LABORATORY

Phone : 0571-2743510

Fax : 0571-2743521

U. P. POLLUTION CONTROL BOARD

J-1, Gyansarovar Colony, Ramghat Road, ALIGARH - 202 001

Sample Code No.

INDUSTRIAL EFFLUENT SAMPLE ANALYSIS REPORT

Name of the Industry M/s :- Neeli Sugar factory, Kasganj
Kanshi, Ramnagar.

Sample collected by :- Mr. P. K. Mishra, G. S. Smastha, A. K. Kaush
Ro Aee

Date of collection :- 11.2.14

Sampling point :- After E.T.P.

PARAMETERS	VALUES
Colour	:- Colourless.
Odour	:- Odourless.
pH	:- 7.70
Suspended Solids	:- 26.0
Dissolved Solids	:- /
Total Solids	
B.O.D. (After 3 days incubation at 27° C)	:- 20.0
C.O.D. (Dichromate reflux method)	:- 100.0
Oil & Grease	:- N.D.

OTHER PARAMETERS :-

The parameters are expressed in mg/L, except pH or stated otherwise, mark-

Analysed by
25/2/14

A. S.
25/2/14

R. O.
25.2.14

D 5110 10

FORM R.T.8 (C)			
(For Central Sugar Factories)			
Range:- Neoli		Division:- Kasgang	
Final Manufacturing Report for the season 2013-14			
(Central Excise rule 83)			
Name and address of factory :- NEOLI SUGAR FACTORY; NEOLI , KASHIRAM NAGAR			
Registered No. of Factory :- S-7			
Clearification Proces used Double Sulphitation			
Sl.No.	PARTICULARS	This Season	Last Season
1	Time Account :-		
	Date of Start	17-12-2013 at 10-30 A.M.	14-12-2012 at 10:30 P.M.
	Date of finish	16-03-2014 at 11-30 pm	13-03-2013 at 11:20 P.M.
	Gross Season (days) (f)	90	90
	Duration of Season (days) (g)	70	79
	Total Hours actual crushing	1543-05	1727-25
	Total Hours lost	605-55	409-25
	(I) Cane Shortage	162-45	164-15
	(ii) Meachanical	95-35	46-40
	(iii) Process	--	--
	(iv) Miscellaneous	341-10	151-25
	(v) Cleaning	--	25-45
	(vi) Electrical	6-25	21-20
	(vii) Cane grower strike	--	--
2	Cane Crushed		
	(I) Own Estate Cane (Qtls)	--	--
	(ii) Gate Cane (Qtls)	662839.36	829918.03
	(iii) Outstation (cane) (Qtls)	722989.78	713242.59
	Rail Cane		
	Other than Rail Cane Road		
	(iv) Total (Qtls)	1385829.14	1543160.62
3	Juice & Added water		
	Average Gross mixed Juice percent cane	107.29	107.74
	Correction % mixed juice	0.32	0.37
	Average net mixed Juice percent cane	106.94	107.34
	Total net mixed juice obtained (Qtls)	1482072.81	1656424.45
	Average added water percent cane	39.57	40.37
4	Sugar		
	Total Sugar bagged.	182920.00	157380.00
	(i) No. of Bags. (50 Kg)	118420.00	43720.00
	(ii) No. of Bags. (100 Kg)	64500.00	113660.00
	(ii) Quantity (Qtls)	*123710.00	135520.00
	sugar in proces. If any "	268.67	305.08
	Total sugar made "	123978.67	135825.08
	Suger recovered from previous season's process	281.00	0.00
	Sugar from previous season's remelted sugar or other sources	353.00	2248.00
	Total net suger made. (Qtls)	123344.67	133577.08
Note:- * This includes 530 qtls Brown sugar of above 90 % pol			
Page No. 1			

Sl.No.	PARTICULARS		This Season	Last Season
	Primary	Sugar percent	13.32	13.35
		Brix percent	17.10	17.19
		Purity	77.89	77.66
	Mixed Juice	Sugar percent	9.75	9.60
		Brix percent	12.82	12.68
		Purity	76.05	75.71
	Last Juice	Sugar percent	1.29	1.51
		Brix percent	1.86	2.20
		Purity	69.35	68.64
	Clarified Juice	Sugar percent	9.83	9.79
		Brix percent	12.86	12.89
		Purity	76.44	75.95
	Filter press Juice	Sugar percent	---	---
		Brix percent	---	---
		Purity	---	---
	Unsulphered Syrup	Sugar percent	44.66	42.87
		Brix percent	58.37	56.46
		Purity	76.51	75.98
	Sulphered Syrup	Sugar percent	44.83	42.73
		Brix percent	58.64	56.30
		Purity	76.45	75.90
	Masseccuete A	Brix percent	95.01	94.84
		Purity	85.38	84.63
	Masseccuete B	Brix percent	97.12	97.41
		Purity	69.23	69.14
	Masseccuete C	Brix percent	101.78	102.02
		Purity	50.43	51.69
	Masseccuete B1	Brix percent		
		Purity		
	Molasses (C)			
	A heavy	Brix percent	86.52	86.35
		Purity	69.01	69.74
	A Light	Brix percent	73.24	71.55
		Purity	87.08	88.01
	B heavy	Brix percent	89.65	90.56
		Purity	49.41	50.89
	B Light	Brix percent		
		Purity		
	B1 heavy	Brix percent		
		Purity		
	C Light	Brix percent	82.29	84.92
		Purity	68.06	66.75
	Sugar : (Average)			
	(I) White Sugar	Sugar percent (d)	99.77	99.90
	(Bagged)	Moisture percent	0.05	0.04

Sl.No.	PARTICULARS	This Season	Last Season
12	Area & yield of cane in factory :		
	Total area of form Hectare	--	--
	Area under cane "	--	--
	Production of cane Quintals		
	Average yield per Hectarage	--	--
	Average		
	Variety (a) plant Percentage		
	(b) Adsall "	--	--
	© Ratoon "	--	--

I hereby declare that figure given in this return are complete and true to the best of my knowledge and belief.

Mgr(Q.C.)

Sig. Of the owner or person authorised

Date :-

NOTE

(a) Outstation cane is the cane weight and purchased at a centre other than at the factory gate.

(b) Carbonation factories only.

(c) In case of 3 massecuite system brix and purities of C heavy and D Light Molasses are not to be given.

(d) 'Sugar means Direct Pol.'

(e) Bagasse percent cane = $100\% \text{ added water percent cane-mixed juice (Gross) percent cane}$.

(f) Gross Season means the total number of days from the date start to the date of close both days inclusive.

(g) Duration of season. This is calculated by dividing the total hours actual crushing by 22.

Return in this form must be prepared for the entire working season of the factory and must be submitted so as to reach not later than thirty days after the date on which working season closed the following authorities.

1. Central Exise Authorities concerned.
2. Directorate of sugar Vanas.
3. National sugar Institute Kanpur.
4. Directorate of Economics & Statistics.



CENTRAL POLLUTION CONTROL BOARD

NGRBA Cell

Joint inspection Report: Sugar

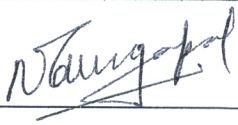

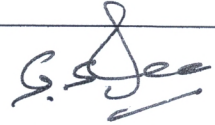
Date of Inspection: 15.10.2014

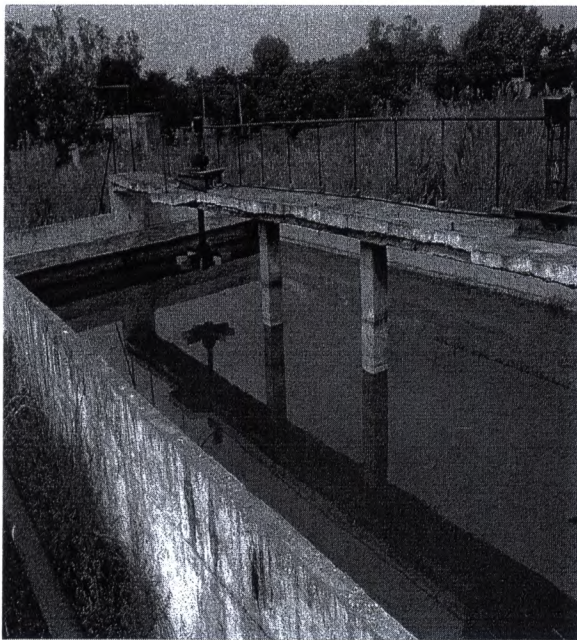
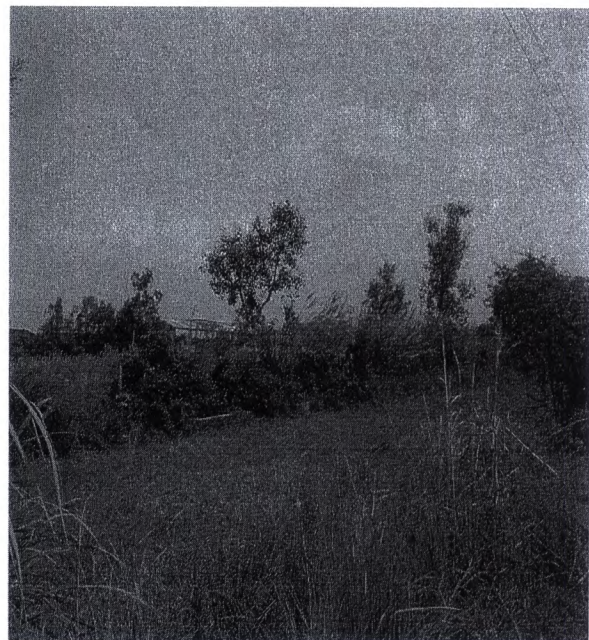
A: General Information			
1.	Name of the unit and address	M/s. Kishan Sahkari Chini Mills Ltd. Village-Satha, Distt.-Aligarh.	
2.	Name of the Proprietor/ Contact person : Designation : Contact No. :	Sri. K.S. Chauhan General Manager	
3.	Year of Commissioning.	1977	
4.	Sector	Cooperative	
5.	Production details. • Products • Installed Prod. Cap • Operating capacity	White Sugar Approx. 1250 Sugar bags (100 kg each)/day Approx. 1000 Sugar bags/day	
6.	Cane crushing capacity	1250 TCD	
7.	Cane crushed last year	11.80 Lac Qtls.	
8.	Molasses generation	57367 Qtls.	
9.	Press Mud generation	36173 Qtls.	
10.	Operational status	Closed Due to off season since 6 th April, 2014	
B: Water Pollution and its Control:			
1.	Water Supply Source(s)	Tube Well (02 Nos.)	
	Water Consumption (KLD)	Industrial	Approx. 1000 KLD (During season)
		Domestic	Approx. 200 KLD
2.	Water Meter to show consumption	Not available	
3.	Flow measuring device installed at outlet of ETP	Not available	
4.	Waste Water generation (KLD) (before treatment) ➤ Industrial ➤ Domestic	NA Approx. 600 KLD Approx. 160 KLD	

[Handwritten signatures]

5.	Waste Water treatment capacity (KLD) ➤ Industrial ➤ Domestic	500 MTD				
6.	Details of ETP ➤ ETP Description with flow diagram ➤ Details of Reverse Osmosis plant, if any ➤ Details of Multi Effect Evaporator, if any	1. Bar Screen 2. Oil & Grease Trap 3. Equalisation Tank 4. Dosing Tank 5. Aeration Tank 6. Clarifier Tank 7. Sludge Drying Beds				
7.	Waste water discharged (after treatment) (KLD) ➤ Industrial ➤ Domestic	NA Approx. 150 KLD				
8.	Mode of disposal of treated effluent (Details)	On land				
9.	Sample distributed into no. of parts (2/3)	-				
10.	Sludge disposal mode	Agricultural used/land filling				
11.	Effluent collection locations & analysis results (if collected)	Locations	Parameters			
			pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)
		Outlet				
		Others				
(I) Information regarding Ferti-irrigation						
1.	Details of treatment effluent before Ferti-irrigation	ETP details Mention above.				
2.	Command area for irrigation (available land area)	Approx 0.7 Hectare.				
3.	System for dilution of treated effluent required for ferti-irrigation	Nil				
4.	System of transportation of treated effluent upto field.	Own Drain				
5.	Formal agreements with farmers for using treated effluent	Used by Own				
6.	Storage facility available for treated effluent during low demand period	Not available				
7.	Quality of effluent being used for ferti-irrigation	Not available				
8.	Ground water monitoring network	Not available				

C: Air Pollution and its Control		
1.	Sources of Air Pollution	
2.	➤ Type of Fuel used with consumption	Bagasse
3.	➤ Stack details	One Nos. Height 30 Meter
4.	➤ APCS details	Dust Collector (Dry Type)
5.	Samples collections points (if collected)	PM (mg/Nm ³):
D. Route of effluent to reach river Ganga/Yamuna (Please indicate starting from the outlet drain of the unit) On Land		
E. Remarks : The ETP is in Poor Condition. It seems that the industry may not be able to stabilize the biological unit of ETP properly before operation of Industry by the end of November, 2014		

1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal Scientist – D CPCB, Delhi	
		Pramod Mishra Regional Officer UPPCB, Aligarh.	
		G.S. Srivastav Assistant Environment Engineer UPPCB, Aligarh.	
2	Date of report Submission	21.10.2014	

Kishan Sahkari Chini Mills Ltd., Satha, Aligarh**Equalization tank****Clarifier****Aeration tank****Factory land used for ferti-irrigation**



CENTRAL POLLUTION CONTROL BOARD
NGRBA Cell

Joint inspection Report: Distillery

Date of Inspection: 15.10.2014

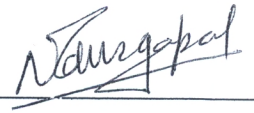


A: General Information						
1.	Name of the unit and address	M/s. Wave Distillery & Brewaries Ltd., Village.- Ahmadpura, Ramghat Road, Tehsil-Atrauli, Distt.- Aligarh. (Distillery & Bottling Unit)				
2.	Name of the Proprietor/ Contact person Designation Contact No.	Sri S.S. Singh Vice President Mob-9536920202				
3.	Year of Commissioning.	2009				
4.	Sector	Private				
5.	Production details. • Products • Installed Prod. Cap. • Consented Prod. Cap. • Restricted Prod. Cap.	ENA 90 KLD				
6.	Raw materials & their requirement	Molasses (350-400 MT/Day)				
7.	Operational status	Operating				
B: Water Pollution and its Control:						
1.	Water Supply Source	Bore Well – 02 Nos.				
	Water Consumption (KLD)	<table border="1"> <tr> <td>Industrial</td> <td>1200-1300 MLD</td> </tr> <tr> <td>Domestic</td> <td>Approx. 8 KLD</td> </tr> </table>	Industrial	1200-1300 MLD	Domestic	Approx. 8 KLD
Industrial	1200-1300 MLD					
Domestic	Approx. 8 KLD					
2.	Water Meter to show consumption	Available				
3.	Flow measuring device installed at outlet of ETP	Available (For Waste Water from Bottling Plant)				
4.	Waste Water generation (KLD) (before treatment) ➤ Industrial ➤ Domestic	760 KLD (Spent Wash) 70 KLD (From Bottling Plant as per UPPCB Consent) 5 KLD				
5.	Waste Water treatment capacity (KLD) ➤ Industrial ➤ Domestic	47 MLD (MEE)				

6.	Details of ETP ➤ ETP Description with flow diagram ➤ Details of Reverse Osmosis plant, if any ➤ Details of Multi Effect Evaporator, if any	Spent Wash goes to MEE Effluent from Bottling Plant passes through filter NA Yes 5 Effect with Finisher, steam Consumption 5-5.5 Ton/hr <table border="0"> <tr> <td></td><td>Temp</td></tr> <tr> <td>Ca1</td><td>82^oc</td></tr> <tr> <td>Ca2</td><td>75^oc</td></tr> <tr> <td>Ca3</td><td>70^oc</td></tr> <tr> <td>Ca4</td><td>66^oc</td></tr> <tr> <td>Ca5</td><td>60^oc</td></tr> <tr> <td>Finisher</td><td>50^oc</td></tr> </table>		Temp	Ca1	82 ^o c	Ca2	75 ^o c	Ca3	70 ^o c	Ca4	66 ^o c	Ca5	60 ^o c	Finisher	50 ^o c					
	Temp																				
Ca1	82 ^o c																				
Ca2	75 ^o c																				
Ca3	70 ^o c																				
Ca4	66 ^o c																				
Ca5	60 ^o c																				
Finisher	50 ^o c																				
7.	Waste water discharged (after treatment) (KLD) ➤ Industrial ➤ Domestic	1. M.E.E. Condensate Used For Molasses Dilution 2. R.O. Reject used in Cooling Tower 3. Bottling Plant Effluent approximately 70 KLD (As per UPPCB Consent) Approx. 4 KLD																			
8.	Mode of disposal of treated effluent (Details)	On surface water – water from bottling plant and domestic waste																			
9.	Sample distributed into no. of parts (2/3)	Two (Sample From Bottling Plant)																			
10.	Sludge disposal mode	Ash From Boilers used for Land filling																			
11.	Effluent collection locations & analysis results (if collected) Outside (after filter) discharge from premises	<table border="1"> <thead> <tr> <th rowspan="2">Locations</th><th colspan="4">Parameters</th></tr> <tr> <th>pH</th><th>BOD (mg/l)</th><th>COD (mg/l)</th><th>TSS (mg/l)</th></tr> </thead> <tbody> <tr> <td>CPCB Lab</td><td>7.37</td><td>387</td><td>600</td><td>12</td></tr> <tr> <td>Private Lab</td><td>7.40</td><td>240</td><td>661</td><td>12</td></tr> </tbody> </table>	Locations	Parameters				pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	CPCB Lab	7.37	387	600	12	Private Lab	7.40	240	661	12
Locations	Parameters																				
	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)																	
CPCB Lab	7.37	387	600	12																	
Private Lab	7.40	240	661	12																	
(I) Information regarding Bio-composting																					
1.	Active area for bio compost preparation (m ²)	NA																			
2.	Area for press mud storage (m ²)	NA																			
3.	Area for bio compost storage (m ²)	NA																			
4.	Spent wash storage capacity	NA																			
5.	Availability of pressmud	NA																			
6.	Quantity of compost prepared (Monthly statement of last year)	NA																			
7.	Quantity of pressmen procured (Monthly statement)	NA																			

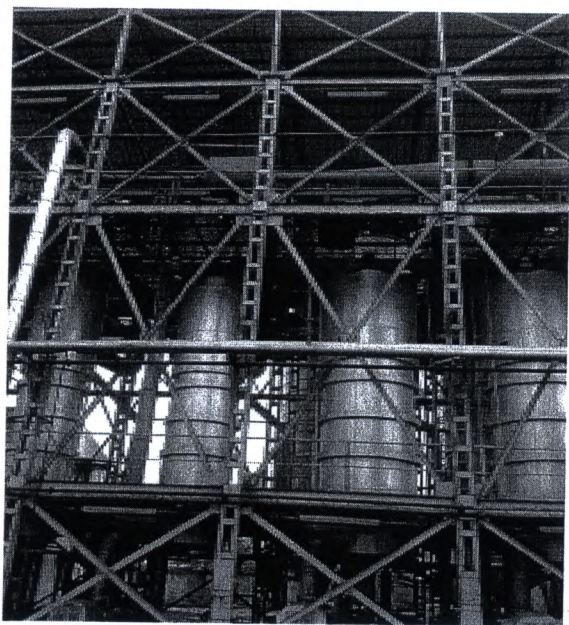
8.	Details of wind roses (Number, length, height, width of stacking, space between two wind rose)	NA
9.	Quantity of Effluent being used for composting (m ³ /day) :	NA
10.	Quantity of press mud being used for one cycle	NA
11.	Maturity time in days for one cycle	NA
12.	Arrangement for rainy season	NA
13.	Quality of ground water in the area and depth of ground water table	NA
(II) Information regarding Ferti-irrigation		
1.	Details of treatment of spent wash (details of bio methanisation, primary and secondary treatment)	NA
2.	Command area for irrigation (available land area)	NA
3.	System for dilution of treated effluent required for ferti-irrigation	NA
4.	System of transportation of treated effluent upto field.	NA
5.	Formal agreements with farmers for using treated effluent	NA
6.	Storage facility available for treated effluent during low demand period	NA
7.	Quality of effluent being used for ferti-irrigation	NA
8.	Ground water monitoring network	Not available
C: Air Pollution and its Control		
1.	Sources of Air Pollution	Boiler Chimney
2.	➤ Type of Fuel used with consumption	Concentrate from MEE & Husk (98-100TPD) Approx.
3.	➤ Stack details	Height 60 mtr. Sampler Point Height -30 Mtr
4.	➤ APCS details	1. Multi Cyclone 2. Wet Scrubber
5.	Samples collections points (if collected) 30 Meter	PM (mg/Nm ³): 96.0

D. Route of effluent to reach river Ganga/Yamuna
(Please indicate starting from the outlet drain of the unit)

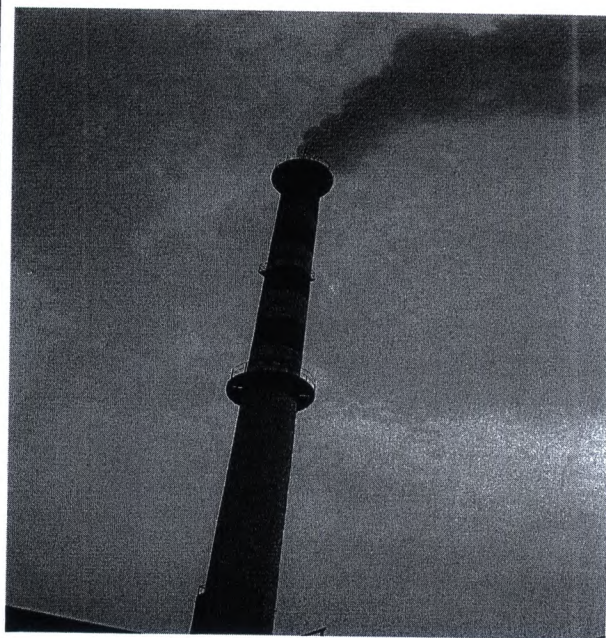
Treated Effluent from Bottle rinsing discharged into Kali River which joins river Ganga & Distillery Unit zero Discharged.

1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal Scientist – D CPCB, Delhi	
		Pramod Mishra Regional Officer UPPCB, Aligarh.	
		G.S. Srivastav Assistant Environment Engineer UPPCB, Aligarh.	
2	Date of report Submission	21.10.2014	

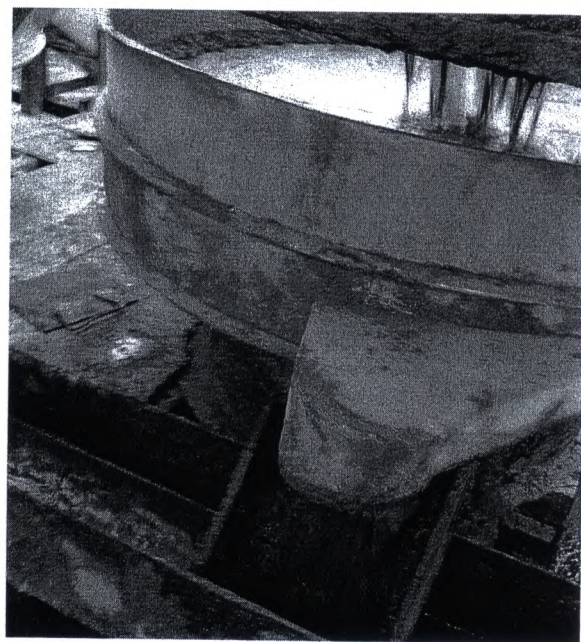
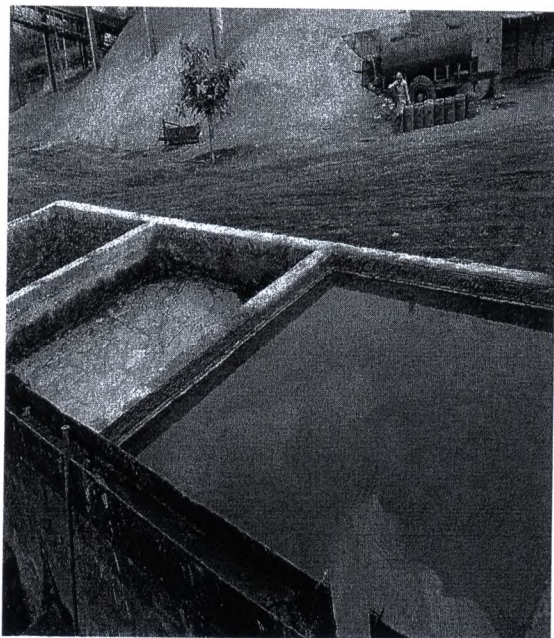
Wave Distillery & Breweries Ltd., Ahmadpura Aligarh (Distillery Unit)



Multi Effect Evaporator (MEE)



Stack



Collection of Ash



CENTRAL POLLUTION CONTROL BOARD

NGRBA Cell

Joint inspection Report: Distillery

Date of Inspection: 15.10.2014

A: General Information		
1.	Name of the unit and address	M/s. Wave Distillery & Breweries Ltd., Village.- Ahmadpura, Ramghat Road, Tehsil-Atrauli, Distt.- Aligarh. (Breweries Unit)
2.	Name of the Proprietor/ Contact person : Designation : Contact No. :	Sri S.S. Singh Vice President Mob-9536920202
3.	Year of Commissioning.	2011
4.	Sector	Private
5.	Production details. • Products • Installed Prod. Cap. • Consented Prod. Cap • Restricted Prod. Cap.	Beer 1 Million H lr./Year
6.	Raw materials & their requirement	Malt (15MTD) Sugar (5.5 MTD) Hops (75 KGD) Adjunct (17 MTD)
7.	Operational status	Operating
B: Water Pollution and its Control:		
1.	Water Supply Source	Ground Water (02 Nos. Tube Well)
	Water Consumption (KLD)	Industrial 1600 KLD (Based on current production) Domestic approx. 10 KLD
2.	Water Meter to show consumption	Available
3.	Flow measuring device installed at outlet of ETP	Available
4.	Waste Water generation (KLD) (before treatment) ➤ Industrial ➤ Domestic	1412 KLD (As per UPPCB Consent) 600 KLD (Based On Current Production) 8 KLD
5.	Waste Water treatment capacity (KLD) ➤ Industrial ➤ Domestic	1420 KLD

[Handwritten signatures]

6.	Details of ETP ➤ ETP Description with flow diagram ➤ Details of Reverse Osmosis plant, if any ➤ Details of Multi Effect Evaporator, if any	1. Receiving Tank 2. Bar Screen cum Grit Chamber 3. Equalizing cum Neutralizing Tank-02 No. 4. Primary Clarifier 5. Buffer Tank 6. Anaerobic Bio-Digester 7. Aeration Tank-02 No. 8. Secondary Clarifier-02 No. 9. Gas Holder 10. Filter Press/SDB				
7.	Waste water discharged (after treatment)(KLD) ➤ Industrial ➤ Domestic	Approx. 510 KLD (Based On current Production) Approx. 7 KLD Total - 517 KLD				
8.	Mode of disposal of treated effluent (Details)	Surface water				
9.	Sample distributed into no. of parts (2/3)	Two parts				
10.	Sludge disposal mode	ETP Sludge/Ash from boiler – Land Filling				
11.	Effluent collection locations & analysis results (if collected)	Locations	Parameters			
			pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)
	Final Outlet of ETP	CPCB Lab.	8.73	18	35	63
		Private Lab	8.50	20	58	71
(I) Information regarding Bio-composting						
1.	Active area for bio compost preparation (m ²)	NA				
2.	Area for press mud storage (m ²)	NA				
3.	Area for bio compost storage (m ²)	NA				
4.	Spent wash storage capacity	NA				
5.	Availability of pressmud	NA				
6.	Quantity of compost prepared (Monthly statement of last year)	NA				
7.	Quantity of pressmen procured (Monthly statement)	NA				
8.	Details of wind roses (Number, length, height, width of stacking, space between	NA				

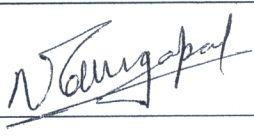

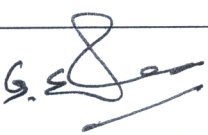
	two wind rose)	
9.	Quantity of Effluent being used for composting (m ³ /day) :	NA
10.	Quantity of press mud being used for one cycle	NA
11.	Maturity time in days for one cycle	NA
12.	Arrangement for rainy season	NA
13.	Quality of ground water in the area and depth of ground water table	NA
(II) Information regarding Ferti-irrigation		
1.	Details of treatment of spent wash (details of bio methanisation, primary and secondary treatment)	NA
2.	Command area for irrigation (available land area)	NA
3.	System for dilution of treated effluent required for ferti-irrigation	NA
4.	System of transportation of treated effluent upto field.	NA
5.	Formal agreements with farmers for using treated effluent	NA
6.	Storage facility available for treated effluent during low demand period	NA
7.	Quality of effluent being used for ferti-irrigation	NA
8.	Ground water monitoring network	Not Available
C: Air Pollution and its Control		
1.	Sources of Air Pollution	Boiler Chimney
2.	➤ Type of Fuel used with consumption	Husk (35 TPD)
3.	➤ Stack details	Height 90 Ft.
4.	➤ APCS details	Multi Cyclone Dust Collector & Bag filter
5.	Samples collections points (if collected)	PM (mg/Nm ³): 128.0
	Sample Point 40 Feet above from ground	

	two wind rose)	
9.	Quantity of Effluent being used for composting (m ³ /day) :	NA
10.	Quantity of press mud being used for one cycle	NA
11.	Maturity time in days for one cycle	NA
12.	Arrangement for rainy season	NA
13.	Quality of ground water in the area and depth of ground water table	NA
(II) Information regarding Ferti-irrigation		
1.	Details of treatment of spent wash (details of bio methanisation, primary and secondary treatment)	NA
2.	Command area for irrigation (available land area)	NA
3.	System for dilution of treated effluent required for ferti-irrigation	NA
4.	System of transportation of treated effluent upto field.	NA
5.	Formal agreements with farmers for using treated effluent	NA
6.	Storage facility available for treated effluent during low demand period	NA
7.	Quality of effluent being used for ferti-irrigation	NA
8.	Ground water monitoring network	Not Available
C: Air Pollution and its Control		
1.	Sources of Air Pollution	Boiler Chimney
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	Sample Point 40 Feet above from ground	

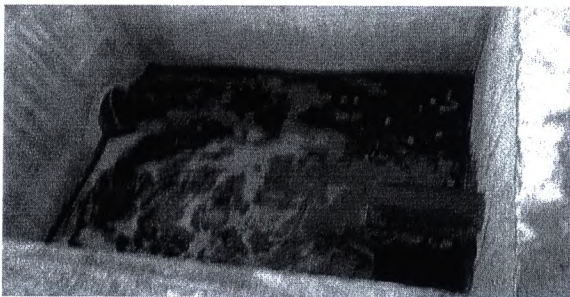
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D. Route of effluent to reach river Ganga/Yamuna
(Please indicate starting from the outlet drain of the unit)

Kali River – Ganga River

1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal Scientist – D CPCB, Delhi	
		Pramod Mishra Regional Officer UPPCB, Aligarh.	
		G.S. Srivastav Assistant Environment Engineer UPPCB, Aligarh.	
2	Date of report Submission	21.10.2014	

Wave Distillery & Breweries Ltd., Ahmadpura Aligarh (Brewery Unit)



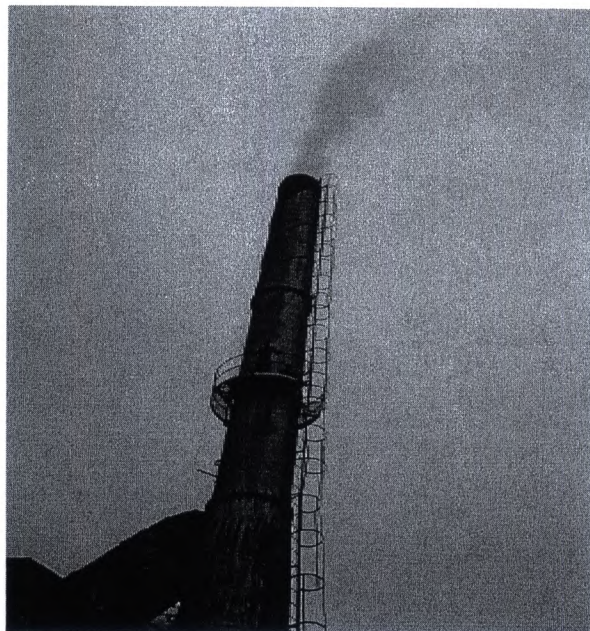
Receiving & Equalization tanks (top to down)



Aeration tank and in the background flaring of Methane Gas



Digester



Stack

Central Pollution Control Board

Inspection & monitoring Report

Sr. No.	Item	Details						
1.0	Name and complete postal address of the industry	Harduaganj Thermal Power Plant (HTPS) , Kasimpur, Aligarh, UP						
2.0	Contact peroson & Telephone/Fax/E-mail	Shri Ranjan Srivastav, SE (Civil) Shri Nishith Sharma, Xen (Civil)						
3.0	Date of Visit	September 15-16, 2014						
4.0	Name of the officials visiting the unit	Dr. S.K. Paliwal, Sc C, CPCB Sh. P.Krishnamurthy, Sc Sh K.P. Rathi , SLA, CPCB Besides, SSO, UPPCB, Aligarh also present during the inspection & monitoring.						
5.0	Purpose of visit	Inspection & monitoring of Harduaganj Thermal Power Station, NTPC in compliance to the order of the Hon,ble NGT, New Delhi						
6.0	Industry Details:							
6.1	Products & Production capacities	Coal based power plant: 670MW (1x60 MW, 1x 110 MW stage I, 2x250 MW stage II) Total : 670MW						
6.2	Main Raw Materials & their consumption	Sr. No.	Raw materials	Quantity				
		1.	Water	49516.79m ³ /day				
		2.	Coal	1.91 million tonne/year				
6.3	Source of raw water	Upper Ganga canal						
7.0	Effluent Management:							
7.1	Water consumption, Effluent generation and ETP capacity				Water Consumption (m ³ /day)			
		Domestic			2091.22			
		Industrial Process			16539.84			
		Cooling water			30885.57			
		Total			151747.47			
		Installed capacity of STP: 1.4 MLD						
7.2	Name of the treatment units in ETP	CMB followed by Clariflocculation and settling						
7.3	Disposal of Treated effluent	Ash pond effluent is discharged upper Ganga Canal (UGC)						
7.4	Adequacy of the STP and ash pond effluent	Source	pH	TSS	COD	BOD	Oil & Grease	
		STP	8.0	18	19	04	-	

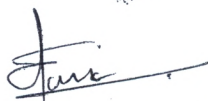
		Ash pond over flow	8.05	19			BDL															
		All the concentration are in mg/l except pH. Limits of discharge , pH: 5.5-8.5, TSS: 100 mg/l, BOD: 30 mg/l, COD :250 mg/l & Oil& Grease: 20 mg/l																				
7.5	Operational Status	ETP and STP was under operation																				
8.0	Emission Control Systems (ECS):																					
8.1	Name of the emission control units in the system	The details are as follow: <table><tr><th>Unit No./ Process</th><th>Stack Height</th><th>ECS</th></tr><tr><td>5</td><td>90 m</td><td>Electrostatic precipitators</td></tr><tr><td>7</td><td>90 m</td><td>Electrostatic precipitators</td></tr><tr><td>8</td><td>275 m</td><td>Electrostatic precipitators</td></tr><tr><td>9</td><td>275 m</td><td>Electrostatic precipitators</td></tr></table>						Unit No./ Process	Stack Height	ECS	5	90 m	Electrostatic precipitators	7	90 m	Electrostatic precipitators	8	275 m	Electrostatic precipitators	9	275 m	Electrostatic precipitators
Unit No./ Process	Stack Height	ECS																				
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7	90 m	Electrostatic precipitators																				
8	275 m	Electrostatic precipitators																				
9	275 m	Electrostatic precipitators																				
8.2	Fuel consumption	<table><tr><th>Sr.No.</th><th>Fuel</th><th>Quantity</th></tr><tr><td>1.</td><td>Coal</td><td>0.707 kg /KWh</td></tr><tr><td>2.</td><td>Furnace oil</td><td>5.024 ml/KWh</td></tr></table>	Sr.No.	Fuel	Quantity	1.	Coal	0.707 kg /KWh	2.	Furnace oil	5.024 ml/KWh											
Sr.No.	Fuel	Quantity																				
1.	Coal	0.707 kg /KWh																				
2.	Furnace oil	5.024 ml/KWh																				
8.3	Adequacy of the ECS (Adequate / Not adequate)	<table><tr><th>Unit</th><th>Particulate matter (mg/Nm3)</th><th>Emission Limit (mg/Nm3)</th></tr><tr><td>5</td><td>Not in operation</td><td>150</td></tr><tr><td>7</td><td>Monitoring facility not exist</td><td>150</td></tr><tr><td>8</td><td>tripped</td><td>100</td></tr><tr><td>9</td><td>70.4-73.4 (corrected to 12% CO2)</td><td>100</td></tr></table>	Unit	Particulate matter (mg/Nm3)	Emission Limit (mg/Nm3)	5	Not in operation	150	7	Monitoring facility not exist	150	8	tripped	100	9	70.4-73.4 (corrected to 12% CO2)	100					
Unit	Particulate matter (mg/Nm3)	Emission Limit (mg/Nm3)																				
5	Not in operation	150																				
7	Monitoring facility not exist	150																				
8	tripped	100																				
9	70.4-73.4 (corrected to 12% CO2)	100																				
8.4	Operational Status	Out of 09 units, unit 1-4 & 6 have been phased out . Unit 5 was under R&M while unit 7-9 were under operation.																				
9.0	Solid waste Management:																					
9.1	Flyash Generation, Storage & Disposal Facility	<table><tr><th>Flyash</th><th>Quantity during 2013-14</th></tr><tr><td>Generation</td><td>1.172 million tonne</td></tr><tr><td>Ash Pond area</td><td>650 acres</td></tr><tr><td>Utilisation</td><td>0.7169 million tonne (61%)</td></tr></table>						Flyash	Quantity during 2013-14	Generation	1.172 million tonne	Ash Pond area	650 acres	Utilisation	0.7169 million tonne (61%)							
Flyash	Quantity during 2013-14																					
Generation	1.172 million tonne																					
Ash Pond area	650 acres																					
Utilisation	0.7169 million tonne (61%)																					
9.2	Adequacy of storage & disposal facility	Flyash is disposed is collected in dry form. While bottom ash & unutilised flyash is discharged into ash ponds which are provided leachate collection facility and provided with garland drain. Total area for ash																				

		mound is earmarked about 650 acres. Presently, about 61 % flyash is utilised for cement & brick manufacturers. One cement grinding unit has been installed which using flyash from HTPS for cement is making.
10.0	Status of Consent under the Water Act, 1974 & Air Act, 1981, and Status of the Authorization under the Hazardous Waste (M & H) Rules, 1989 & amendment there off	The consents under the Water Act, 1974 & Air Act, 1981 for unit 8 & 9 are valid upto December 31, 2015. While consents for unit 5&& have been rejected. HTPS has no valid authorization under the Hazardous Waste (M & H) Rules, 1989. Neither HTPS has applied nor UPPCB has directed for the same.
12.0	Observations: <ol style="list-style-type: none"> 1. HTPS, Aligarh has total installed capacity of 560 MW comprising 4 (1x 60 MW, 1x 110 MW) & 2x250 MW) . However, during inspection period, about unit nos 7-9 were under operation. 2. <i>The concentration of pollutants w.r.t pH, TSS, COD & BOD (para 7.4) in effluent from ash pond and STP are found within the prescribed limit of respective parameters .</i> 3. The industry has valid consents to operate under Air & Water Acts 1981 & 1974 respectively for unit 8&9 while UPPCB has rejected consents for unit 5&7 as units were under renovation and modernization. 4. It was informed that HTPS neither applied for authorization under the Hazardous Waste (M & H) Rules, 1989 nor UPPCB has directed for the same. 5. Flyash is collected is collected in dry form and stored in silos as intermediate storage. While bottom ash & unutilised flyash is discharged into ash ponds which are provided leachate collection facility and provided with garland drain. Total area for ash mound is earmarked about 650 acres. 6. Presently, about 61 % flyash is utilised for cement & brick manufacturers. One cement grinding unit has been installed near to HTPS which using flyash from HTPS for cement is making. 7. The stack emission monitoring from unit 7 of old pant (stage I) could not be carryout as there was no monitoring facility at the stack. Similarly, monitoring facility provided at unit 8 & 9 was also not appropriate. The monitoring was carryout in unit No 9 through the port hole provided for installation opacity meter. Particulate matter emission was found to be within the 100 mg/Nm³. Stack emission monitoring in unit 8 could not be carriedout as the unit was tripped during the monitoring. 8. Opacity meters installed in unit nos 8 & 9 are not yet commissioned. 9. Over all house keeping in all plant areas was very poor. Unused and scrap material was found lying unsystematically. 10. HTPS has out sourced the stack emission and effluent monitoring. The sampling carried out by the agency was not representative for stack emission since there was no adequate monitoring facility is proved in the stacks as per the guidelines (Emission regulation part III) prescribed by CPCB. 	
13.0	Recommendations:	

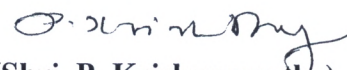
Based on the observations and results of monitoring, following recommendations are made:

1. Harduaganj Thermal Power Plant (HTPS) should obtain valid consents to operate under Air & Water Acts 1981 & 1974 respectively for unit 5&7 which has been rejected by UPPCB and when units are commissioned and Commercial operation is declared.
2. HTPS should get authorization under the Hazardous Waste (M & H) Rules, 1989 from UPPCB for disposal of hazardous waste like used oil & grease immediately
3. In order to prevent fugitive dust emission from silo during transfer of flyash from boiler via a vis loading to trucks , HPTs should provide adequate pollution control systems like bag filter at each transfer point.
4. It was observed that ash pond effluent (though confirming the discharge limit) is discharged into near by canal. It is suggested that HTPS should provide Ash Water recirculation system to prevent any discharge to Upper Ganga Canal.
5. HPTs should explore more areas for augmenting flyash utilisation to reach 100 % level from existing about 61 % .
6. HTPS should provide stack emission monitoring facilities in all 04 operating units as per the guidelines prescribed by the CPCB immediately.
7. Opacity meters installed in unit nos 8 & 9 should be commissioned and continuous emission data reporting be linked to servers of CPCB and SPCB as per directions issued by the CPCB/SPCB.
8. HTPS should make all efforts in time bound manner to improve housekeeping in all plant areas. Unused and scrap material which is lying unsystematically, should be stored in a designated marked area.
9. HTPS has outsourced the stack emission and effluent monitoring. The sampling carried out by the agency may not be adequate for stack emission as there is no appropriate monitoring facility provided in the stacks.

Signature of CPCB Officials



(Dr. S. K. Paliwal)
Scientist c



(Shri. P. Krishnamurthy)
Scientist c