

**Format of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT & Ors]

**Date of Inspection: 16.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment:** Pride Hotels Limited  
(Bulk Waste Generator) Asset No. 5A, Aerocity, IG, Airport, New Delhi
- (b) **Owner /Partner / Managing Director's Name and Telephone No.** : Mr. S.P. Jain  
011-66007700
- (c) **Month & Year of Establishment** : November- 2015
- (d) **Name and Designation of the Person(s) Contacted at the site** : Mr. Vishnu Chauhan, 9899343789  
Mr. Pankaj Mathur (G.M)
- (e) **Size of Premises (in Square Meter)** : (i) Plot Area- 6373.76 Sqmtr (ii) Built up Area- 33927.53 Sqmtr

**2. Type of Establishment**

- (Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.)) : Hotel (4 Star)  
No. of rooms – 385, Banquet hall – 02 (400 Person)  
Restaurants – 03 (240 Person)

**3. Status of Licenses**

- (a) Environmental Clearance : Yes [Issued on 06.06.2011]
- (b) Consent under the Air & Water Acts : Applied for Consent to Operate
- (c) Municipal Corporation License : **Yes [Valid upto-31.03.2017]**
- (d) Certificate from Fire Department : **Yes [Valid upto- 27.11.2017]**

**4. Water and Waste Water**

- (a) **Source of Water Supply** Supply by Delhi International Airport Pvt. Ltd.
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	Average Water Consumption/ Requirement *(in Liters /day)	Peak Water Consumption/Requirement at full capacity **(in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	169000	Rooms= 385x2x180=	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	10000	138600	
(iii)	Kitchen	43000	Restaurant=	80% of 158200
(iv)	Laundry	51000	240x70=16800	
(v)	Swimming Pool	12000	Banquet= 400x70=	
(vi)	Horticulture / Gardening	12000	2800	
(vii)	Others			
	<b>Total Quantity</b>	297000	158200	126560

\*- Based on data furnished by Unit

\*\* - Estimated as per Standards of CPHEEO, 1999 manual

**5. Waste Water Management**

**(a) Waste Water Treatment System**

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational / Not Operational)
Effluent Treatment Plant (ETP)	---	----	----	----	----
Sewage Treatment Plant (STP)	Hotel	350	Biological	O/G trap, Eq. tank, Aeration tank, Settling tank etc.	Operational

- (b) Mode of Disposal of Treated/untreated Waste Water : Gardening etc
- (c) Whether All Sections connected to ETP/STP : Yes
- (d) Whether Adequacy Report of ETP/STP submitted : Yes
- (e) Whether Effluent sample collected by DPCC Lab during inspection : Yes
- (f) Whether ETP/STP is meeting the prescribed standards : Yes
- (g) Whether Flow Meter Installed at Inlet and Outlet of ETP/STP : Yes
- (h) Whether Separate Energy Meter provided for ETP/STP : No
- (i) Whether Log Book of ETP / STP is being maintained : Yes
- (j) ETP / STP Sludge generation : Quantity 10 kg /day  
 Mode of Disposal : (i) Disposed along with Solid Waste  
 (ii) Used as Compost in Horticulture
- (k) Reuse of Treated Waste Water : (i) Gardening / Horticulture **12000** Liters /day  
 (ii) Air Conditioning Plant / Cooling Tower **10000** Liters /day  
 (iii) Boiler **10000** Liters /day  
 (iv) Flushing (Toilets) **159000** Liters /day  
 (v) Any other **91000** Liters /day  
**Total Quantity: 282000** Liters /day

**6. Air Pollution Aspects**

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>3</b>	<b>PNG</b>	Hood and suction arrangement provided to channelize the kitchen emissions over terrace
2.	<b>Boiler</b>	<b>2</b>	<b>PNG</b>	Adequate stack height
3.	<b>Diesel Generator(s)</b>	<b>2-1500 &amp; 1250 KVA</b>	<b>HSD</b>	Acoustic Enclosure and adequate stack height
4.	<b>Others</b>			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers are provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	180kg/day (As Provided letter by the Concerned Unit) 449 kg Per day (Estimated peak generation)*	No	No	Not Provided		M/s Chaudhary (Agreement not given)
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	2 kg/day	No	No	No	No Provided	
(vii)	Recyclable Waste	No records made available					

\* Based on data furnished

\*\* Based on full occupancy + floating population figure adopted from SWM Manual 2000

**8. Rain Water Harvesting System (RWHS)**

: Yes

No of RWHS Pits- 02

**Observations/Comments of the inspection on 16.02.2017**

Pride Hotels Limited is operating their Hotel at Asset No. 5A, Aerocity, IG, Airport, New Delhi. The Hotel was inspected by Sub Committee-II on 16.02.2017. It was informed that hotel is having 385 rooms, 2 Banquet halls, and 3 Restaurant. Following are the observations of the team after discussion with officials of the Hotel who were present during inspection:

1. As informed by the unit, the unit was established in year 2015, Plot Area of the Hotel is 6373 m<sup>2</sup> and Built up Area is 33927 sq m<sup>2</sup>. Hotel is having Environmental Clearance issued on 06.06.2011.
2. Hotel has applied for Consent to Operate under Air and Water Act.
3. Water is procured from DIAL.
4. STP of capacity 350 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.
5. Flow meters were found installed at inlet of STP. No Separate energy meter for STP found installed.
6. Logbook of STP was found maintained.
7. The information/record with regard to mass water balance could not be shown during inspection however as informed treated effluent is reused for air conditioning plant, in gardening purposes etc.
8. As informed approx 10 kg/day of sludge is generated and it was informed that sludge is used for horticulture purposes or disposed along with municipal solid waste.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Though Results of the sample taken depicts that the motel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height. PNG fired boilers are existing with adequate stack height.

**Issues:-**

- Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
- Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
- Water is procured through DIAL who in turn gets water supply from DJB.
- The information/record with regarding to mass water balance is sketchy and considering huge waste water generation and limited requirement for gardening purposes and cooling tower requirement, option of supply free of cost to the adjoining green area of DIAL needs to be explored to meet the commitment of ZLD as stipulated in the EC.
- All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
- Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc. & operation of STP needs to be standardized, so that the uniformity can be maintained.

**Format of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT & Ors]

**Date of Inspection: 16.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment:** CADDIE HOTELS PVT. LTD. (PULLMAN & NOVOTEL)  
(Bulk Waste Generator) Asset No. 2, GMR, Aerocity, Delhi
- (b) **Owner /Partner / Managing Director's Name and Telephone No.** : Mr. Tristan Beau De Lomeine (GM)  
011-46080808
- (c) **Month & Year of Establishment** : 17.08.2015
- (d) **Name and Designation of the Person(s) Contacted at the site** : Sh. Gopal Paranthaman  
9811353276
- (e) **Size of Premises (in Square Meter)** : (i) Plot Area- 18969 Sqmt (ii) Built up Area- 58063 Sqmt

**2. Type of Establishment**

- : Hotel  
(Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.) No. of Room - 670  
No. of Restaurant – 05 (325 Person), Lawn – 01 (200 Person)

**3. Status of Licenses**

- (a) Environmental Clearance : Yes [Issued on 22.7.2010]  
(b) Consent under the Air & Water Acts : Yes [Valid upto 20.7.2020]  
(c) Municipal Corporation License : Yes [Valid upto- **Not provided**]  
(d) Certificate from Fire Department : Yes [Valid upto 17.1.2017]

**4. Water and Waste Water**

- (a) **Source of Water Supply** : (i) **Supply by Delhi International Airport Pvt. Ltd.**  
(b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	Average Water Consumption/ Requirement *(in Liters /day)	Peak Water Consumption/Requirement at full capacity ** (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	172000	Rooms= 670x2x180=	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	31000	241200 Restaurant= 325x70=	
(iii)	Kitchen	15000	22750	80% of 270950
(iv)	Laundry	50000	Lawn= 200x70=	
(v)	Swimming Pool	7000	14000	
(vi)	Horticulture / Gardening	5000		
(vii)	Others	42000		
	<b>Total Quantity</b>	322000	277950	222360

\*- Based on data furnished by Unit

\*\* - Estimated as per Standards of CPHEEO, 1999 manual

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	Laundry	75	Physicochemical	Collection tank, Chemical Dosing Tank etc	<b>Operational</b>
Sewage Treatment Plant (STP)	2 Hotels	650	Biological	O/G trap, Eq. tank, Aeration tank, Settling tank etc	<b>Operational</b>

- (b) Mode of Disposal of Treated/untreated Waste Water : Gardening etc
- (c) Whether All Sections connected to ETP/STP : Yes
- (d) Whether Adequacy Report of ETP/STP submitted : Yes
- (e) Whether Effluent sample collected by DPCC Lab during inspection : Yes
- (f) Whether ETP/STP is meeting the prescribed standards : No
- (g) Whether Flow Meter Installed at Inlet and Outlet of ETP/STP : No
- (h) Whether Separate Energy Meter provided for ETP/STP : No
- (i) Whether Log Book of ETP / STP is being maintained : Yes
- (j) ETP / STP Sludge generation : Quantity 5.0Kg /day  
Mode of Disposal : (i) Used as Compost in Horticulture
- (k) Reuse of Treated Waste Water : (i) Gardening / Horticulture **20000** Liters /day  
(ii) Air Conditioning Plant / Cooling Tower **100000** Liters /day  
(iii) Boiler **0** Liters /day  
(iv) Flushing (Toilets) **25000** Liters /day  
(v) Any other **25000** Liters /day  
**Total Quantity: 170000** Liters /day

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	Kitchen	04(01-Novotel +03-Pullman)	PNG	Hood and suction arrangement provided to channelize the kitchen emissions over terrace
2.	Boiler	2 (2.8 KG/HR)	PNG	Adequate stack height
3.	Diesel Generator(s)	2X2000 KVA		Acoustic Enclosure and adequate stack height
4.	Others			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers are provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	1050 kg/Day (As Provided letter by the Concerned Unit) 722.50 kg Per day (Estimated peak generation)*	No	No	No	Not Provided	Agreement Not provided
(ii)	Construction & Demolition Waste	No record available	No	No	No	Not Provided As per contract Agreement	
(iii)	Domestic Hazardous Waste	No record available					
(iv)	Hazardous Waste (Used /Waste Oil )	No record available					
(v)	E-Waste	No record available					
(vi)	Lead Acid Battery Waste	No record available					
(vi)	Garden Waste	2 kg	Yes	Yes	No	Partial Composting	
(vii)	Recyclable Waste	No record available					

\* Based on data furnished

\*\* Based on full occupancy + floating population figure adopted from SWM Manual 2000

**8. Rain Water Harvesting System (RWHS)**

: Yes

No of RWHS Pits- 4 Nos.

**Observations/Comments of the inspection on 16.02.2017**

CADDIE HOTEL PVT. LTD. is operating their 2 Hotels namely Pullman and Novotel at Asset No. 2, Aerocity, Delhi, New Delhi. The Hotel was inspected by Sub Committee-II on 16.02.2017. It was informed that hotels are having 670 rooms, Lawn-01 and 05 Restaurants. Following are the observations of the team after discussion with officials of the Hotel who were present during inspection:

1. As informed by the unit, the unit was established in year 2015, Plot Area of the Hotels is 18963 m<sup>2</sup> and Built up Area is 58063 sq m<sup>2</sup>. Hotel is having Environmental Clearance issued on 22.07.2010.

2. Hotel is having valid Consent to Operate under Air and Water Act which is valid till 20.07.2020.
3. Water is procured from DIAL.
4. STP of capacity 650 KLD and ETP of 75 KLD capacity has been installed for both hotels. STP is biological type, ETP of physico-chemical type and were found operational. As per calculations of DJB, ETP and STP design capacity is more than the waste water generation during peak.
5. No Flow meters were found installed at inlet of STP. No Separate energy meter for STP found installed.
6. Logbook of STP was found maintained.
7. The information/record with regard to mass water balance could not be shown during inspection however as informed treated effluent is reused for air conditioning plant, in gardening purposes etc.
8. As informed approx 05kg/day of sludge is generated and it was informed that sludge is used for horticulture purposes or disposed along with municipal solid waste.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC lab. Results of the sample taken depicts that the Hotel is not meeting the effluent standards. The hotel needs to standardize the operation of their STP to meet the prescribed standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height. PNG fired boilers are existing with adequate stack height.

**Issues:-**

- Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
- STP is not meeting the prescribed standards and requires proper housekeeping.
- Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
- Water is procured through DIAL who in turn gets water supply from DJB.
- The information/record with regarding to mass water balance is sketchy and considering huge waste water generation and limited requirement for gardening purposes and cooling tower requirement, option of supply free of cost to the adjoining green area of DIAL needs to be explored to meet the commitment of ZLD as stipulated in the EC.
- All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
- Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc. & operation of STP needs to be standardized, so that the uniformity can be maintained.

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**Date of Inspection: 16.02.2017**

### 1. General Information

- (a) **Name and Address of the Establishment:** ANDAZ DELHI  
(Bulk Waste Generator) A unit of Juniper Hotels Pvt. Ltd.
- (b) Owner /Partner / Managing Director's : Mr. Amit Sarat  
Name and Telephone No. 01149031213
- (c) Month & Year of Establishment : December- 2016
- (d) Name and Designation of the Person(s) : Rakesh Kumar (Director of Engineering)  
Contacted at the site 7838089097
- (e) Size of Premises (in Square Meter) : (i) Plot Area- **26828 Sqmtr** (ii) Built up Area- **10977 Sq mtr.**

### 2. Type of Establishment

- : Hotel
- (Bulk Waste Generator) (Main Activities / No of room – 530 (725 Beds), Restaurant- 01 (270 Persons)  
Units / Facilities (No of Rooms / Beds etc.) Banquet Hall 01 (800 Persons)

### 3. Status of Licenses

- (a) Environmental Clearance : Yes [Issued on 15.2.2017]
- (b) Consent under the Air & Water Acts : Yes [Valid upto 22.06.2021]
- (c) Municipal Corporation License : **Yes [Valid upto-31.03.2018]**
- (d) Certificate from Fire Department : **Yes [Valid upto- 18.04.2019] /**  
regarding Fire Safety

### 4. Water and Waste Water

- (a) **Source of Water Supply** : (i) water supply by Delhi International Airport Pvt. Ltd. (DIAL)  
around 214200 l/day

### (b) Water Consumption / Requirement and Waste Water Generation

S.No.	Purpose /Use	Average Water Consumption/ Requirement *(in Liters /day)	Peak Water Consumption/Requirement at full capacity ** (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	69000	Rooms= 725x180= 130500 Restaurant= 270x70=18900 Banquet= 800x70=56000	80% of 205400
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	1200		
(iii)	Kitchen	89000		
(iv)	Laundry	15000		
(v)	Swimming Pool	2000		
(vi)	Horticulture / Gardening	38000		
(vii)	Others			
	<b>Total Quantity</b>	214200	205400	164320

\*- Based on data furnished by Unit

\*\* - Estimated as per Standards of CPHEEO, 1999 manual

**5. Waste Water Management**

**(a) Waste Water Treatment System**

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	---	---	----	---	---
Sewage Treatment Plant (STP)	Hotel	550 KLD	Biological	Bar Screen, O & G Trap, Aeration Tank, Settling Tank etc	<b>Operational</b>

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
  - (c) Whether All Sections connected to ETP/STP : Yes
  - (d) Whether Adequacy Report of ETP/STP submitted : Yes
  - (e) Whether Effluent sample collected during inspection : Yes
  - (f) Whether ETP/STP is meeting the prescribed standards : Yes
  - (g) Whether Flow Meter Installed at Inlet and Outlet of ETP/STP : Yes
  - (h) Whether Separate Energy Meter provided for ETP/STP : Yes
  - (i) Whether Log Book of ETP / STP is being maintained : Yes
  - (j) ETP / STP Sludge generation : Quantity Not known..... Kg /day  
Mode of Disposal : (i) Used as Compost in Horticulture
  - (k) Reuse of Treated Waste Water : (i) Gardening / Horticulture 38000 Liters /day  
(ii) Air Conditioning Plant / Cooling Tower 65000 Liters /day  
(iii) Boiler ..... Liters /day  
(iv) Flushing (Toilets) 28000 Liters /day  
(v) Any other ..... Liters /day
- Total Quantity: 131000 Liters /day**

**6. Air Pollution Aspects**

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>3</b>	<b>PNG</b>	Hood and suction arrangement provided to channelize the kitchen emissions over terrace
2.	<b>Boiler</b>	<b>1</b>	<b>HSD</b>	Adequate Stack Height
3.	<b>Diesel Generator(s)</b>	<b>2-1500 KVA</b> <b>1-750 KVA</b>	<b>HSD</b>	Acoustic Enclosure and adequate stack height
4.	<b>Others</b>			

## 7. Waste Management

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	235 kg/day (As Provided letter by the Concerned Unit) 469.50 kg Per day (Estimated peak generation)*	No	No	Not Provided		M/s Delhi ARM
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	5 kg	No	No	No	Composting	
(vii)	Recyclable Waste	No records made available					

\* Based on data furnished

\*\* Based on full occupancy + floating population figure adopted from SWM Manual 2000

## 8. Rain Water Harvesting System (RWHS)

: Yes

No of RWHS Pits 04

## Observations/Comments of the inspection on 16.02.2017

ANDAZ DELHI is operating their Hotel at Asset No. 1, Aerocity, New Delhi. The Hotel was inspected by Sub Committee-II on 16.02.2017. It was informed that Hotel is having 530 Rooms/725 Beds, 1 Banquet and 1 Restaurant. Following are the observations of the team after discussion with officials of the Hotel who were present during inspection:

1. As informed by the unit, the unit was established in year 2016, Plot Area of the Hotel is 26828 m<sup>2</sup> and Built up Area is 10977sq m.
2. Hotel is having valid Consent to Operate under Air and Water Act which is valid till 22.06.2021.
3. Water is procured from DIAL.

4. STP of capacity 550 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.
5. Flow meters were found installed at inlet and outlet of STP. No Separate energy meter for STP found installed.
6. Logbook of STP was found maintained.
7. The information/record with regard to mass water balance could not be shown during inspection however as informed treated effluent is reused in gardening purposes, air conditioning, etc.
8. The quantum of sludge generated could not be provided but it was informed that it is used for horticulture purposes. Unit should maintain the quantum of sludge in order to substantiate that STP is operated on regular basis.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC lab. Results of the sample taken depicts that the Hotel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height. Boilers are existing with adequate stack height.

**Issues:-**

- Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
- Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
- Water is procured through DIAL who in turn gets water supply from DJB.
- The information/record with regarding to mass water balance is sketchy and considering huge waste water generation and limited requirement for gardening purposes and cooling tower requirement, option of supply free of cost to the adjoining green area of DIAL needs to be explored to meet the commitment of ZLD as stipulated in the EC.
- All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
- Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc. & operation of STP needs to be standardized, so that the uniformity can be maintained.

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**Date of Inspection: 16.02.2017**

### 1. General Information

- (a) **Name and Address of the Establishment:** M/s Hyacinth Hotels Pvt. Ltd. ( Lemontree & Red Fox Hotel), Asset No. 6, Hospitality District, Dial IGI Airport Delhi -110029.  
(Bulk Waste Generator)
- (b) Owner /Partner / Managing Director's Name and Telephone No. : Mr. Sumant Jaidka (9811814779)
- (c) Month & Year of Establishment : October'24-2013
- (d) Name and Designation of the Person(s) Contacted at the site : Mr. N.C. Malhotra (9810297251)
- (e) Size of Premises (in Square Meter) : (i) Plot Area- **9579.07** sqm (ii) Built up Area- **35863.392**sqm

### 2. Type of Establishment

- : Hotel  
(Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.) Room - 487 Restaurant- 03 (320 Persons)

### 3. Status of Licenses

- (a) Environmental Clearance : Yes [Issued on 30.7.2013]  
(b) Consent under the Air & Water Acts : **Yes** [Valid upto- **09.02.2019**  
(c) Municipal Corporation License : **Yes** [Valid upto- **31.03.2017**  
(d) Certificate from Fire Department : **Yes** [Valid upto- **09.03.2018**

### 4. Water and Waste Water

- (a) **Source of Water Supply** : **Water Supplied by DIAL (GMR) (Bill Attached)**

#### (b) Water Consumption / Requirement and Waste Water Generation

S.No.	Purpose /Use	Average Water Consumption/ Requirement *(in Liters /day)	Peak Water Consumption/Requirement at full capacity **(in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	155000	Rooms= 487x2x180= 175320	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed		Restaurant= 320x70= 22400	80% of 197720
(iii)	Kitchen	30000		
(iv)	Laundry			
(v)	Swimming Pool	15000		
(vi)	Horticulture / Gardening			
(vii)	Others	10000		
	<b>Total Quantity</b>		197720	158176

\*- Based on data furnished by Unit

\*\* - Estimated as per Standards of CPHEEO, 1999 manual

**5. Waste Water Management**

**(a) Waste Water Treatment System**

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	-	--	--	--	--
Sewage Treatment Plant (STP)	Hotels	250	MBBR	O/G trap, Eq. tank, Aeration tank, Settling tank etc	<b>Operational</b>

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
- (c) Whether All Sections connected to ETP/STP : **Yes**
- (d) Whether Adequacy Report of ETP/STP submitted : **Yes**
- (e) Whether Effluent sample collected during inspection : **Yes**
- (f) Whether ETP/STP is meeting the prescribed standards : **Yes**
- (g) Whether Flow Meter Installed at Inlet and Outlet of ETP/STP : **Yes**
- (h) Whether Separate Energy Meter provided for ETP/STP : **Yes**
- (i) Whether Log Book of ETP / STP is being maintained : **Yes**
- (j) ETP / STP Sludge generation : **Quantity 25 Kg /day**  
 Mode of Disposal : (i) Used as Compost in Horticulture
- (k) Reuse of Treated Waste Water :
  - (i) **Gardening** / Horticulture **30000** Liters /day
  - (ii) Air Conditioning Plant / Cooling Tower **40000** Liters /day
  - (iii) Boiler ..... Liters /day
  - (iv) Flushing (Toilets) **30000** Liters /day
  - (v) Any other **30000** Liters /day

**Total Quantity: 130000** Liters /day

**6. Air Pollution Aspects**

S.No.	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>2</b>	<b>PNG</b>	Hood and suction arrangement provided to channelize the kitchen emissions over terrace
2.	<b>Boiler</b>	<b>04</b>	<b>PNG</b>	Adequate stack height
3.	<b>Diesel Generator(s)</b>	<b>3</b>	<b>HSD</b>	Acoustic Enclosure and adequate stack height
4.	<b>Others</b>			

## 7. Waste Management

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	230 Kg/Day (As Informed verbally During inspection) 519 kg Per day (Estimated peak generation)*	No	No	No	Not Provided	
(ii)	Construction & Demolition Waste	No records made available	No	No	No		
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil)	No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	2-3 kg/day	No	No	No	Partial Composting	
(vii)	Recyclable Waste	No records made available					

\* Based on data furnished

\*\* Based on full occupancy + floating population figure adopted from SWM Manual 2000

## 8. Rain Water Harvesting System (RWHS)

: Yes

No of RWHS Pits- 2 Nos.

## Observations/Comments of the inspection on 16.02.2017

Hyacinth Hotels Pvt. Ltd. (Lemontree & Red Fox Hotel) are operating their Hotels at Asset No. 6, Aerocity, IG, Airport, New Delhi by the commercial name of Lemontree & Red Fox Hotel. The Hotels were inspected by Sub Committee-II on 16.02.2017. It was informed that hotels are having 487 rooms and 3 Restaurants. Following are the observations of the team after discussion with officials of the Hotels who were present during inspection:

1. As informed by the unit, the units were established in year 2013, Plot Area of the Hotels is 9579.07 m<sup>2</sup> and Built up Area is 35863.392 sqm. Hotel is having Environmental Clearance issued on 30.7.2013.
2. Hotel is having valid Consent to Operate under Air and Water Act which is valid till 09.02.2019.
3. Water is procured from DIAL.

4. One common STP of capacity 250 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.
5. Flow meters were found installed at inlet and outlet of STP. Separate energy meter for STP found installed.
6. Logbook of STP was found maintained.
7. The information/record with regard to mass water balance could not be shown during inspection however as informed treated effluent is reused for air conditioning plant, in gardening purposes etc.
8. The quantum of sludge generated could not be provided but it was informed that it is used for horticulture purposes.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the hotel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height. PNG fired boilers are existing with adequate stack height.

**Issues:-**

- Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
- Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
- Water is procured through DIAL who in turn gets water supply from DJB.
- The information/record with regarding to mass water balance is sketchy and considering huge waste water generation and limited requirement for gardening purposes and cooling tower requirement, option of supply free of cost to the adjoining green area of DIAL needs to be explored to meet the commitment of ZLD as stipulated in the EC.
- All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
- Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc. & operation of STP needs to be standardized, so that the uniformity can be maintained.

## Format of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT & Ors]

**Date of Inspection: 16.02.2017**

### 1. General Information

- (a) **Name and Address of the Establishment:** Bird Airport Hotel Pvt. Ltd. Roseate House, GMR Hospitality  
(Bulk Waste Generator) Asset No. 10, Aero City
- (b) **Owner /Partner / Managing Director's** : Ankur Bhatia  
Name and Telephone No.
- (c) **Month & Year of Establishment** : September- 2016
- (d) **Name and Designation of the Person(s)** : Mr. Alok Bansal  
Contacted at the site 8800895096
- (e) **Size of Premises (in Square Meter)** : (i) Plot Area-**7225.90 M<sup>2</sup>**(ii) Built up Area- **30161.38 M<sup>2</sup>**

### 2. Type of Establishment

- (Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.) : Hotel  
Rooms- 216 No., Restaurant – 03 No. (34+28+122) Persons  
Banquet – 01 (250 Persons)

### 3. Status of Licenses

- (a) Environmental Clearance : Yes [Issued on 06/06/2011]
- (b) Consent under the Air & Water Acts : Applied for Consent
- (c) Municipal Corporation License : **Yes** [Valid upto- **31.03.2017**]
- (d) Certificate from Fire Department regarding Fire Safety : Yes [Valid upto.....]/

### 4. Water and Waste Water

- (a) **Source of Water Supply** : (i) Water supply by Delhi International Airport Pvt. Ltd.
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	Average Water Consumption/ Requirement *(in Liters /day)	Peak Water Consumption/Requirement at full capacity **(in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	60000	Rooms= 216x2x180= 77760	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	10000	Restaurant= (34+28+122)x70= 12880	
(iii)	Kitchen	15000	Banquet= 250x70= 17500	80% of 108140
(iv)	Laundry	18000		
(v)	Swimming Pool	3000		
(vi)	Horticulture / Gardening	10000		
(vii)	Others			
	<b>Total Quantity</b>	116000	108140	86512

\*- Based on data furnished by Unit

\*\* - Estimated as per Standards of CPHEEO, 1999 manual

(a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	Laundry	25	Physicochemical	Bar Screen, Equalization Tank, Tube Settler Etc.	Operational
Sewage Treatment Plant (STP)	Hotel	200	Biological	Bar Screen, Equalization Tank, Aeration Tank, Tube Settler Etc.	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc.
- (c) Whether All Sections connected to ETP/STP : Yes
- (d) Whether Adequacy Report of ETP/STP submitted : Yes
- (e) Whether Effluent sample collected during inspection : Yes
- (f) Whether ETP/STP is meeting the prescribed standards : Yes
- (g) Whether Flow Meter Installed at Inlet and Outlet of ETP/STP : Yes
- (h) Whether Separate Energy Meter provided for ETP/STP : Yes
- (i) Whether Log Book of ETP / STP is being maintained : Yes
- (j) ETP / STP Sludge generation : Quantity 10-12 Kg /day  
 Mode of Disposal : (i) Disposed along with Solid Waste  
 (ii) Used as Compost in Horticulture
- (k) Reuse of Treated Waste Water : (i) Gardening / Horticulture ..... Liters /day  
 (ii) Air Conditioning Plant / Cooling Tower ..... Liters /day  
 (iii) Boiler ..... Liters /day  
 (iv) Flushing (Toilets) ..... Liters /day  
 (v) Any other ..... Liters /day  
**Total Quantity: 110000 Liters /day**

6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	Kitchen	3	PNG	Hood and suction arrangement provided to channelize the kitchen emissions over terrace
2.	Boiler	4	PNG	Adequate stack height
3.	Diesel Generator(s)	2	HSD	Acoustic Enclosure and adequate stack height
4.	Others			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism		Remarks
			Whether Proper Segregation is being done	Whether Proper Containers are provided for storing the Waste	Whether Log Book for generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)	
(i)	Municipal Solid Waste	72 Kg./day (As Provided letter by the Concerned Unit) 259.40 kg Per day (Estimated peak generation)*	No	No	Yes		M/s Chaudhary Contractor	
(ii)	Construction & Demolition Waste	No details made available						
(iii)	Domestic Hazardous Waste	No details made available						
(iv)	Hazardous Waste (Used /Waste Oil )	No details made available						
(v)	E-Waste	No details made available						
(vi)	Lead Acid Battery Waste	No details made available						
(vi)	Garden Waste	3 kg/day	No	No	No	Not Provided		
(vii)	Recyclable Waste	No details made available						

\* Based on data furnished

\*\* Based on full occupancy + floating population figure adopted from SWM Manual 2000

**8. Rain Water Harvesting System (RWHS) : Yes**  
**No of RWHS Pits 02 Nos.**

**Observations/Comments of the inspection on 16.02.2017**

Bird Airport Hotel Pvt. Ltd. Is operating their Hotel at Asset No. 10, Aerocity, IG, Airport, New Delhi by the commercial name of Roseate. The Hotel was inspected by Sub Committee-II on 16.02.2017. It was informed that hotel is having 216 rooms, 1 Banquet and 3 Restaurants. Following are the observations of the team after discussion with officials of the Hotel who were present during inspection:

1. As informed by the unit, the unit was established in year 2016, Plot Area of the Hotel is 7225.9 m<sup>2</sup> and Built up Area is 30161.38 sqm. Hotel is having Environmental Clearance issued on 06.06.2011.
2. Hotel has applied for obtaining Consent to Operate under Air and Water Act.
3. Water is procured from DIAL.
4. One ETP (Physico-Chemical) of capacity 25 KLD and one STP of capacity 200 KLD (Biological) have been installed. ETP and STP were found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.
5. Flow meters were found installed at inlet and outlet of STP. Separate energy meter for STP found installed.
6. Logbook of STP was found maintained.
7. The information/record with regard to mass water balance could not be shown during inspection however as informed treated effluent is reused for air conditioning plant, in gardening purposes etc.
8. As informed, the quantum of sludge generated is 10-12 Kg/day and it is used for horticulture purposes.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the hotel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height. PNG fired boilers are existing with adequate stack height.

**Issues:-**

- Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
- Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
- Water is procured through DIAL who in turn gets water supply from DJB.
- The information/record with regarding to mass water balance is sketchy and considering huge waste water generation and limited requirement for gardening purposes and cooling tower requirement, option of supply free of cost to the adjoining green area of DIAL needs to be explored to meet the commitment of ZLD as stipulated in the EC.
- All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
- Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc. & operation of STP needs to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT &Ors]

**Date of Inspection: 20.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment** (Bulk Waste Generator) Fortis FLT. LT. Rajan Dhall Hospital  
B-I, Aruna Asaf Ali Marg, Vasant Kunj,  
New Delhi- 110070.
- (b) **Owner /Partner / Managing Director's** Name and Telephone No. Mr. Sandeep Guduru,  
011-42776222
- (c) **Month & Year of Establishment** April - 2006
- (d) **Name and Designation of the Person(s)** Subhash Chandra Jha  
Contacted at the site
- (e) **Size of Premises (in Square Meter)** (i) Plot Area-**7449.37 Sq.m** (ii) Built up Area-**11934.78 Sq.m**

**2. Type of Establishment**

(Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / **Beds** etc.) No. of Beds – 160, Rooms Single- 34, Double – 13, Triple Rooms– 4. OPD- 350, No of visitor- 232

**3. Status of Licenses**

- (a) Environmental Clearance Not Applicable
- (b) Consent under the Air & Water Acts Yes [Valid upto- 07.07.2018]
- (c) Municipal Corporation License Not Provided
- (d) Certificate from Fire Department Yes [Valid upto- 19.09.2019]

**4. Water and Waste Water**

- (a) **Source of Water Supply** :**(i) Delhi Jal Board [ Bill Available- Yes]**  
**(ii) Tankers [No record provided]**
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	35000	Beds= 160x450= 72000 Visitors= (350+232)x15= 8730	80% of 80730
(ii)	Air Conditioning /Cooling Plant or Boiler Feed			
(iii)	Kitchen	10000		
(iv)	Laundry	--		
(v)	Swimming Pool	--		
(vi)	Horticulture / Gardening	10000		
(vii)	Others	25000		
	<b>Total Quantity</b>	105000	80730	64584

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999

## 5. Waste Water Management

### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	-	-	-	-	-
Sewage Treatment Plant (STP)	Hospital & Domestic & Kitchen	80	Biological Process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : DJB Sewerage system, Gardening, etc.
- (c) Whether All Sections connected to STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab : Yes (from DPCC lab Dt. 07.03.2017)  
is Meeting the Prescribed Standard:
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : Yes
- (h) Whether Separate Energy Meter provided for STP : Yes (Energy meter reading-8863.7 KW)
- (i) Whether Log Book of ETP / STP is being maintained : Yes
- (j) ETP / STP Sludge generation : Quantity not maintained in logbook  
Mode of Disposal : Used as Compost in Horticulture (As informed)
- (j) Reuse of Treated Waste Water:
- (i) Gardening / Horticulture ..... Liters /day
  - (ii) Cooling Tower ..... Liters /day
  - (iii) Boiler ..... Liters /day
  - (iv) Flushing (Toilets) ..... Liters /day
  - (v) Any other ..... Liters /day
  - Total Quantity** ..... Liters /day

## 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>01</b>	<b>LPG</b>	Hood and Suction arrangement provided to Channelize the kitchen emission Over terrace
2.	<b>Boiler</b>	<b>02</b>	<b>HSD</b>	Adequate stack ht provided.
3.	<b>Diesel Generator(s)</b>	<b>02</b> <b>2x800 KVA</b>	<b>HSD</b>	DG sets are kept in acoustically treated enclosure and having adequate stack height
4.	<b>Others</b>			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated /**Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	180kg/day (Average) (As Provided letter by the Concerned Unit) 139.20 kg Per day (Estimated peak generation)	No	No	Yes		M/s Kalicharan (JBG Enterprises Agreement Not Provided)
(ii)	Construction & Demolition Waste	200 Kg/ Day	No	No	No	Not Provided	
(iii)	Domestic Hazardous Waste	No records made Available					
(iv)	Hazardous Waste (Used /Waste Oil )	434 lt/ Year	Yes	Yes	Yes	Yes	--
(v)	E-Waste	No records made Available					
(vi)	Lead Acid Battery Waste	No records made Available	Nil	Nil	Nil	Nil	Nil
(vi)	Garden Waste	05 Kg / Day	No	No	No	Not Provided	
(vii)	Recyclable Waste	No records made Available	--	--	--	--	--

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

**In case of Hospitals for Bio Medical Waste Management**

(a) Whether having proper Bio Medical Waste Segregation in:

(i) Pathological and other Laboratories

: Partly

(ii) General and Private Wards

: Yes

(iii) Operation Theatres	: Could not be visited
(iv) ICUs	: Yes
(b) Pretreatment of Laboratory Waste / Blood Bank	: Partly
(c) On site segregation	: Yes
(d) Common collection point (Temporary collection site)	: Yes
(e) Provision for collection and treatment of floor washing and container trolley	: Yes
(f) Total quantum of Bio-Medical Waste generation	273.81 Kg/day [as per average quantity of records of January, 2017] Yellow – 57.98Kg/day, Red -- 165.57Kg/day, Blue – 29.23 Kg/day, White (Sharp)- 21.03 Kg/day,
(g) Records for Bio-Medical Waste found maintained.	Yes
(h) Annual Report for Bio-Medical Waste	No annual report Provided.
<b>8. Rain Water Harvesting System (RWHS)</b>	<b>: No of RWHS Pits 02 Nos</b>

**Observations/Comments of the inspection on 20.02.2017**

1. As informed by the Hospital, the Hospital was established in year 2006, Plot Area of the Hospital is 7449.37 **Sqmtr** and Built up Area is 11934.78 **Sqmtr**. No Environment Clearance was provided by the Hospital.
2. The Hospital is having valid Consent to Operate under Air and Water Act valid upto 07.07.2018 but as per Copy provided, Authorization under BMW rules expired on 14.07.2016.
3. The hospital is in process of updating themselves for compliance w.r.t. Bio Medical Waste (Management and Handling) Rules, 2016.
4. Bio-Medical Waste generated from the hospital is given to CBMWTF (M/s Biotic Waste Solutions Pvt. Ltd, an authorized CBMWTF by DPCC) for its treatment and disposal, however some of the provisions of BMW Rules, 2016, e.g. Bar Code System for Bags or Containers containing bio medical waste and Phasing out of Chlorinated Plastic Bags, Gloves and Blood Bags are yet to be complied.
5. Closed Trolleys are available for transferring BMW from various wards OT etc.
6. Bio-Medical Waste Management is looked after by the infection Control Cell of the hospital and immunization practices (for Hepatitis B and Tetanus) has been adopted for health care worker and other staff and training regarding Bio Medical Waste handling /Management is also given to the health care workers and concerned staff at the time of induction and from time to time.
7. As informed, Sludge generated from the STP is used as Compost in Horticulture however as per the provisions of the Bio-Medical Waste Management Rules, 2016, sludge generated from the Effluent Treatment Plant should be given to Common Bio Medical Waste Treatment facility for incineration since there is no operational TSDF in Delhi.
8. Water is sourced from DJB and through water Tankers however details of Tankers / Tanker bills not provided.

9. STP of capacity 80 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.
10. Flow meter installed at inlet of STP & outlet flow meter found and working condition.
11. Though Log Book for operation of the STP has been maintained however lacks important information particularly w.r.t Quantity of waste water treated each day and sludge generated. Proper maintenance of the Logbook for operation of STP is required. Separate energy water not provided.
12. The information/record with regarding to mass water balance could not be shown during inspection however as informed treated effluent is re used for gardening, cooling towers.
13. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the Hospital is meeting the effluent standards.
14. Unit has provided proper channelization system for kitchen emissions and stack height found adequate. DG sets are having acoustic enclosure and adequate stack height.
15. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
16. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
17. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
18. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

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**Date of Inspection: 20.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment:** JAYPEE VASANT CONTINENTAL  
(Bulk Waste Generator) Vasant Lok, Vasant Vihar, New Delhi- 57
- (b) **Owner /Partner / Managing Director's Name and Telephone No.**
- (c) **Month & Year of Establishment** 1982
- (d) **Name and Designation of the Person(s) Contacted at the site** Mr. R. L. Mann, 9810334913
- (e) **Size of Premises (in Square Meter)** (i) Plot Area 1250 sqm (ii) Built up Area 19075 sqm

**2. Type of Establishment**

- (Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.) Five Star Hotel  
No. of Rooms – 119, Restaurant – 04, (450 Persons)  
Banquet hall – 01 (300 Persons), Lawn – 01 (500 Persons)

**3. Status of Licenses**

- (a) Environmental Clearance Not Applicable
- (b) Consent under the Air & Water Acts **Yes [Valid upto 18.11.2018]**
- (c) Municipal Corporation License **Not provided**
- (d) Certificate from Fire Department **Yes [Valid upto 17.06.2019]**

**4. Water and Waste Water**

- (a) **Source of Water Supply** : (i) Tankers [06 No of Tankers /day-, Yes Provided,
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	130 KLD	Rooms= 119x2x180= 42840	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	30 KLD	Restaurant= 450x70= 31500	
(iii)	Kitchen	10 KLD	Banquet= (300+500)x70= 56000	80% of 103880
(iv)	Laundry	30 KLD		
(v)	Swimming Pool	16 KLD		
(vi)	Horticulture / Gardening	25 KLD		
(vii)	Others	27 KLD		
	<b>Total Quantity</b>	268 KLD	130340	104272

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999.

## 5. Waste Water Management

### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	From laundry	55	Physicochemical process	Collection Tank, Dosing tank, Settling tank etc	Operational
Sewage Treatment Plant (STP)	From Hotel	195	Biological Process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Land Gardening
- (c) Whether All Sections connected to ETP/STP : Yes
- (d) Whether Effluent sample taken by DPCC laboratory : Yes
- (e) Whether Effluent analysis report from DPCC lab : Yes  
is Meeting the Prescribed Standard:
- (f) Whether Flow Meter Installed at Inlet and Outlet of STP : Yes
- (g) Whether Separate Energy Meter provided for STP : **Yes**
- (h) Whether Log Book of ETP / STP is being maintained : **Yes**
- (i) ETP / STP Sludge generation : No record provided  
Mode of Disposal : **Used as Compost in Horticulture**
- (j) Reuse of Treated Waste Water: (i) **Gardening / Horticulture** 10 KLD (As informed)  
(ii) **Cooling Tower** 15 KLD (As informed)  
(iii) **Boiler** NIL  
(iv) **Flushing (Toilets)** NIL  
(v) **DDA&MCD** 80-120 KLD (As informed)  
**Total Quantity** ..... Liters /day

## 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>05</b>	<b>LPG</b>	Hood and suction arrangement provided to channelize the kitchen emissions over terrace
2.	<b>Boiler</b>	<b>03</b>	<b>HSD/PNG</b>	Adequate stack height
3.	<b>Diesel Generator(s)</b>	<b>03</b> <b>3X910 KVA</b>	<b>HSD</b>	Acoustic Enclosure and adequate stack height
4.	<b>Others</b>			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/**Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Container is provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	260 kg/day (As Provided letter by the Concerned Unit) 244 kg Per day (Estimated peak generation)*	No	No	Yes		M/s HRAE Waste Pvt. Ltd. (Agreement not Provided)
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	10.3 Kg/day	Yes	Yes			SKM Petro Chemical India Pvt. Ltd.
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available	Yes	Yes			IFP Petro Product Ltd
(v)	E-Waste	No records made available	Yes	Yes		M/s HRA E Waste Pvt. Ltd.	
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	5 Kg	Yes		No	Composting	
(vii)	Recyclable Waste	No records made available					

\* Based on data furnished by the unit.

\*\* Based on full occupancy and floating population figure (per capita MSW generated, adopted from Solid Waste Management Manual, 2000).

**8. Rain Water Harvesting System (RWHS)**

**: No of RWHS Pits- 02 Nos.**

**Observations/Comments of the inspection on 20.02.2017**

1. As informed by the unit, the unit was established in year 1982, Plot Area of the Hotel is 1250 m<sup>2</sup> and Built up Area is 19075 sq m<sup>2</sup>. No Environmental Clearance was available with the unit.
2. Hotel is having valid Consent to Operate under Air and Water Act which is valid till 18.11.18.
3. Water is procured from outside tankers. No information provided regarding original source of procurement of water by the water supplier.

4. STP of capacity 195 KLD and ETP of 55KLD have been installed. STP is biological type, ETP is of physicochemical type and both were found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.
5. Flow meters were found installed at inlet of STP. Separate energy meter for STP found installed.
6. Logbook of STP was found maintained.
7. The information/record with regard to mass water balance could not be shown during inspection however as informed treated effluent is reused for air conditioning plant, in gardening purposes and also sent to SDMC/DDA for horticulture purposes etc.
8. No information regarding quantum of sludge provided however it was informed that sludge is used for horticulture purposes.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Though Results of the sample taken depicts that the motel is meeting the effluent standards but the operation and maintenance of STP was not satisfactory.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height. Boilers existing with adequate stack height.

**Issues:-**

- Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
- Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
- All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
- Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT & Ors]

**Date of Inspection: 20.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment:** Institute of Liver Biliary Sciences,  
(Bulk Waste Generator) D-1 , Vasant Kunj New Delhi
- (b) **Owner /Partner / Managing Director's** : Dr. Girish Chandra – HO(M)  
**Name and Telephone No.** Dr. Vimal Sharma - DHO (M)
- (c) **Month & Year of Establishment** : January- 2010
- (d) **Name and Designation of the Person(s)** : Dr. Girish Chandra –HO(M)  
**Contacted at the site** 9810769199
- (e) **Size of Premises (in Square Meter)** : (i) Plot Area-**50,160 Sqmtr.** (ii) Built up Area-**79665 Sqmtr.**

**2. Type of Establishment**

- (Bulk Waste Generator) (Main Activities / : Hospital  
Units / Facilities (No of Rooms / Beds etc.) No of Beds – 350, (185 Operational)  
OPD- 400, Residentially rooms – 128 No. Visitor – 350 Nos.

**3. Status of Licenses**

- (a) Environmental Clearance : Yes [Issued on 20.07.2010]
- (b) Consent under the Air & Water Acts : Yes [Valid upto 25.04.2018]
- (c) Municipal Corporation License : [Not Provided]
- (d) Certificate from Fire Department : **Yes** [Valid upto-**18.06.2018**]

**4. Water and Waste Water**

- (a) **Source of Water Supply** : (i) Bore well [04 No(s) Permission from DJB/CGWA..No]
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	253000	Beds= 350x450= 157500 Rooms= 128x2x180= 46080 Visitors= (400+350)x15= 11250	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	150000		
(iii)	Kitchen	20000		80% of 214830
(iv)	Laundry	35000		
(v)	Swimming Pool	-		
(vi)	Horticulture / Gardening	7000		
(vii)	Others	60000		
	<b>Total Quantity</b>	525000	214830	171864

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999.

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	For Laundry	50 KLD	Physicochemical Process	Mixing tank, Settling tank Etc.	Operational
Sewage Treatment Plant (STP)	For Hospital	280 KLD & 150 KLD	Biological Process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated/untreated Waste Water : Gardening etc.
- (c) Whether All Sections connected to ETP/STP : Yes
- (d) Whether Adequacy Report of ETP/STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab is Meeting the Prescribed Standard: : No (from DPCC lab Dated 07.03.2017)
- (g) Whether Flow Meter Installed at Inlet and Outlet of ETP/STP : Yes
- (h) Whether Separate Energy Meter provided for ETP/STP : Yes (If Yes, Meter Reading 5739 Kwh)
- (i) Whether Log Book of ETP / STP is being maintained : Yes
- (j) ETP / STP Sludge generation : Quantity 8-10 Kg /day  
 Mode of Disposal : (i) Disposed along with solid waste  
 (ii) **Used as Compost in Horticulture**  
 (iii) Any other mode of disposal.
- (k) Reuse of Treated Waste Water (as informed) :
  - (i) Gardening / Horticulture 60000 Liters /day
  - (ii) Air Conditioning Plant / Cooling Tower 80000 Liters /day
  - (iii) Boiler 30000 Liters /day
  - (iv) Flushing (Toilets) 40000 Liters /day
  - (v) Any other 10000 Liters /day

**Total Quantity: 220000 Liters /day**

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	Kitchen	1	PNG	Hood and Suction arrangement provided to Channelize the kitchen emission Over terrace.
2.	Boiler	3	Gas/ HSD	Adequate stack ht provided.
3.	Diesel Generator(s)	5 (3x 1010, 2x2000 KVA)	HSD	DG sets are kept in acoustically treated enclosure and having adequate stack height
4.	Others			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/**Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers are provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided –Yes/No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes/No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	200 kg/day (As Provided letter by the Concerned Unit) 314 kg Per day (Estimated peak generation)*	No	No	Not Provided		M/s JBG Enterprises
(ii)	Construction & Demolition Waste	No records made Available					
(iii)	Domestic Hazardous Waste	No records made Available					
(iv)	Hazardous Waste (Used /Waste Oil )	400 ltrs/ year	Yes	Yes	Yes		J. B. G
(v)	E-Waste	No records made Available					
(vi)	Lead Acid Battery Waste	By Back system					
(vi)	Garden Waste	50 kg/day	No	No	No	Partial Composting	
(vii)	Recyclable Waste	No records made Available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

**In case of Hospitals for Bio Medical Waste Management**

- (a) Whether having proper Bio Medical Waste Segregation in:
  - (i) Pathological and other Laboratories : Partly
  - (ii) General and Private Wards : Yes
  - (iii) Operation Theatres : Could not be visited
  - (iv) ICUs : Yes
- (b) Pretreatment of Laboratory Waste / Blood Bank : Partly
- (c) On site segregation : Yes

- (d) Common collection point (Temporary collection site) : Yes  
 (e) Provision for collection and treatment of floor washing and container trolley : Yes  
 (f) Total quantum of Bio-Medical Waste generation 377.13 Kg/day [as per average quantity of records of January, 2017]  
     Yellow – 144.07Kg/day,  
     Red -- 226Kg/day,  
     Blue – Quantity not provided,  
     White (Sharp)- 7.07 Kg/day,  
 (g) Records for Bio-Medical Waste found maintained. Yes  
 (h) Annual Report for Bio-Medical Waste No annual report Provided.  
 8. Rain Water Harvesting System (RWHS) : No of RWHS Pits 11 Nos

**Observations/Comments of the inspection on 20.02.2017**

1. As informed by the Hospital, the Hospital was established in year 2010, Plot Area of the Hospital is 50,160 **Sqmtr** and Built up Area is 79665 **Sqmtr**. Environment Clearance was obtained by the Hospital on 20.07.2010
2. The Hospital is having valid Consent to Operate under Air and Water Act valid upto 25.04.2018 and having Authorization under BMW rules Valid upto 21.12.2018..
3. The hospital is in process of updating themselves for compliance w.r.t. Bio Medical Waste (Management and Handling) Rules, 2016.
4. Bio-Medical Waste generated from the hospital is given to CBMWTF (M/s Biotic Waste Solutions Pvt. Ltd, an authorized CBMWTF by DPCC) for its treatment and disposal, however some of the provisions of BMWM Rules, 2016, e.g. Bar Code System for Bags or Containers containing bio medical waste and Phasing out of Chlorinated Plastic Bags, Gloves and Blood Bags are yet to be complied.
5. Closed Trolleys are available for transferring BMW from various wards OT etc.
6. Bio-Medical Waste Management is looked after by the infection Control Cell of the hospital and immunization practices (for Hepatitis B and Tetanus) has been adopted for health care worker and other staff and training regarding Bio Medical Waste handling /Management is also given to the health care workers and concerned staff at the time of induction and from time to time.
7. As informed, Sludge generated from the STP is used as Compost in Horticulture however as per the provisions of the Bio-Medical Waste Management Rules, 2016, sludge generated from the Effluent Treatment Plant should be given to Common BioMedical Waste Treatment facility for incineration since there is no operational TSDF in Delhi.
8. Water is sourced from DJB and through 4 Borewells and not having permission from DJB and CGWA for the same.
9. STP of capacity 280 KLD & 150 KLD have been installed and also installed ETP of capacity 50 KLD and all were found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.
10. Flow meter installed at inlet of STP & outlet flow meter found and working condition.

11. Though Log Book for operation of the STP has been maintained however lacks important information particularly w.r.t Quantity of waste water treated each day and sludge generated. Proper maintenance of the Logbook for operation of STP is required. Separate energy meter not provided.
12. The information/record with regarding to mass water balance could not be shown during inspection however as informed treated effluent is re used for gardening, cooling towers.
13. Effluent samples were collected by DPCC laboratory from the Inlet and Outlet of STP during inspection on 20.02.2017 and Effluent analysis report of DPCC dated 07.03.2017 shows that STP is not meeting the prescribed standards.
14. Unit has provided proper channelization system for kitchen emissions and stack height found adequate. DG sets are having acoustic enclosure and adequate stack height.
15. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
16. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
17. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
18. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

## Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT & Ors]

**Date of Inspection: 21.02.2017**

### 1. General Information

- (a) **Name and Address of the Establishment** (Bulk Waste Generator) M/s Wave Hospitality Pvt. Ltd (HOLIDAY INN, Asset No. 12, Aero City, IGI, New Delhi)
- (b) **Owner /Partner / Managing Director's** Name and Telephone No. Mr. Rakesh Kumar (Director)
- (c) **Month & Year of Establishment** March- 2014
- (d) **Name and Designation of the Person(s)** Contacted at the site Sh. Sandeep Mishra (chief engg.) 8826996448
- (e) **Size of Premises (in Square Meter)** (i) Plot Area- 6474.97 Sqmt (ii) Built up Area- 32589 Sqmt

### 2. Type of Establishment

- (Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.)) Hotel (4 Star)  
No of Rooms – 265, Banquet Hall – 01, (350 Person)  
No of Restaurant- 04 (348 Person)

### 3. Status of Licenses

- (a) Environmental Clearance Yes [Issued on 09.02.2010]
- (b) Consent under the Air & Water Acts Yes [Valid upto- 13.03.2019]
- (c) Municipal Corporation License Yes [Valid upto- 31.03.2017]
- (d) Certificate from Fire Department Yes [Valid upto- 08.08.2017]

### 4. Water and Waste Water

- (a) **Source of Water Supply** : Supply by Delhi International Airport Pvt. Ltd.
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	210000	Rooms= 265x2x180= 95400	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	70000	Restaurant= 348x70= 24360	
(iii)	Kitchen	70000	Banquet= 350x70= 24500	80% of 144260
(iv)	Laundry	28000		
(v)	Swimming Pool	9000		
(vi)	Horticulture / Gardening	40000		
(vii)	Others	140000		
	<b>Total Quantity</b>		144260	115408

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999.

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	--	--	--	---	---
Sewage Treatment Plant (STP)	From Hotels & laundry	225	Biological process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
- (c) Whether All Sections connected to STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab : Yes  
is Meeting the Prescribed Standard:
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : Yes
- (h) Whether Separate Energy Meter provided for STP : No
- (i) Whether Log Book of ETP / STP is being maintained : Yes (but not with flow meter reading)
- (j) ETP / STP Sludge generation : No record provided  
Mode of Disposal : **Used as Compost in Horticulture**
- (j) Reuse of Treated Waste Water:
  - (i) **Gardening / Horticulture** 40000 Liters /day
  - (ii) **Cooling Tower** 60000 Liters /day
  - (iii) **Boiler** 15000 Liters /day
  - (iv) **Flushing (Toilets)** 70000 Liters /day
  - (v) **Any other** ..... Liters /day
  - Total Quantity** **185000** Liters /day

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>04</b>	<b>LPG</b>	Hood and Suction arrangement provided to Channelize the kitchen emission over terrace
2.	<b>Boiler</b>	<b>02</b>	<b>HSD+PNG</b>	Adequate stack ht
3.	<b>Diesel Generator(s)</b>	<b>02</b> <b>2X1250 KVA</b>	<b>HSD</b>	DG sets are kept in acoustically treated enclosure and having adequate stack height
4.	<b>Others</b>			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	450 Kg/Day (As Informed verbally During inspection) 334.8 kg Per day (Estimated peak generation)*	No	No	Yes		M/s Yadav Contracto Agreement Not Provided
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	02 Kg/Day	No	No	No	Not provided	
(vii)	Recyclable Waste	No records made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

**8. Rain Water Harvesting System (RWHS)**

: No of RWHS Pits 03

**Observations/Comments of the inspection on 21.02.2017**

- As informed by the unit, the unit was established in year 2014, Plot Area of the Motel is **6474.97 Sqmtr** and Built up Area is **32589 Sqmtr**. Environment Clearance is available with the unit and Issued on 09.02.2010.
- The Hotel is having valid Consent to Operate under Air and Water Act which is valid till **13.03.2019**.
- Water Supply by Delhi International Airport Pvt. Ltd.
- STP of capacity 225 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water

generation during peak (No information is available in the CPHEEO Manual regarding water requirement by banquet halls however DJB has considered Banquet Halls at par with the Restaurants).

5. Flow meters were found installed at Inlet & outlet of STP. No separate energy meter provided for STP.
6. Logbook of STP maintained but Water flow meter reading & sludge quantity not maintained.
7. The information/record with regarding to mass water balance could not be shown during inspection however as informed treated effluent is re used for gardening purpose, cooling tower, flushing.
8. No information could be provided for quantum of sludge but it was informed that sludge is used for horticulture.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the Hotel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
14. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

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**Date of Inspection: 21.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment:** M/s Inter Globe Hotels Pvt. Ltd. (IBIS Hotel),  
(Bulk Waste Generator) Asset. No. 09, Hospitality District, Aero city, IGI New Delhi -110037.
- (b) **Owner /Partner / Managing Director's Name and Telephone No.** **Mr.Gaurav Dhingra**
- (c) **Month & Year of Establishment** Dec 2012
- (d) **Name and Designation of the Person(s) Contacted at the site** Sh. Shailesh Khandelwal  
9899171950
- (e) **Size of Premises (in Square Meter)** (i) Plot Area- 7845.08 Sqmt (ii) Built up Area- 26666.21 Sqmt

**2. Type of Establishment**

(Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.) Hotel  
No. of Rooms – 445, Restaurant- 01 (201 Person)  
Banquet Hall – 03, (110 Person)

**3. Status of Licenses**

- (a) Environmental Clearance Yes [Issued on 04.08.2010]
- (b) Consent under the Air & Water Acts Yes [Valid upto- 24.02.2018]
- (c) Municipal Corporation License Yes [Valid upto- 31.03.2017]
- (d) Certificate from Fire Department Yes [Valid upto- 18.04.2019]

**4. Water and Waste Water**

- (a) **Source of Water Supply** : **Supply by Delhi International Airport Pvt. Ltd.**
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	90000	Rooms= 445x2x180= 160200 Restaurant= 201x70= 14070 Banquet= 110x70= 7700	80% of 181970
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	4000		
(iii)	Kitchen	1500		
(iv)	Laundry	1000		
(v)	Swimming Pool	4000		
(vi)	Horticulture / Gardening	35000		
(vii)	Others	15000		
	<b>Total Quantity</b>	150500	181970	145576

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999

## 5. Waste Water Management

### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	--	--	--	--	--
Sewage Treatment Plant (STP)	Hotel Premises	275	Biological Process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
- (c) Whether All Sections connected to STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab is Meeting the Prescribed Standard: : Yes
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : Only at outlet of STP
- (h) Whether Separate Energy Meter provided for STP : **No**
- (i) Whether Log Book of ETP / STP is being maintained : **Yes**
- (j) ETP / STP Sludge generation : 2.5 kg/day (As informed. No record provided)  
 Mode of Disposal : **Used as Compost in Horticulture**
- (j) Reuse of Treated Waste Water:
- |                                     |                                |
|-------------------------------------|--------------------------------|
| (i) <b>Gardening / Horticulture</b> | 35000 liters/day (as informed) |
| (ii) <b>Cooling Tower</b>           | 4000 Liters /day               |
| (iii) <b>Boiler</b>                 | Nil Liters /day                |
| (iv) <b>Flushing (Toilets)</b>      | 30000 Liters /day              |
| (v) <b>Any other</b>                | Nil Liters /day                |
| <b>Total Quantity</b>               | <b>69000</b> Liters /day       |

## 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>01</b>	<b>PNG</b>	Hood and Suction arrangement provided to Channelize the kitchen emission over terrace
2.	<b>Boiler</b>	<b>03</b>	<b>PNG+HSD</b>	Adequate stack ht
3.	<b>Diesel Generator(s)</b>	<b>03</b> <b>3X750KVA</b>	<b>HSD</b>	DG sets are kept in acoustically treated enclosure and having adequate stack height
4.	<b>Others</b>			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers are provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided –Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	180 Kg/Day (As Provided letter by the Concerned Unit) 476.10 kg Per day (Estimated peak generation)*	No	No	No		M/s DWM Ltd.
(ii)	Construction & Demolition Waste	No records made Available					
(iii)	Domestic Hazardous Waste	No records made Available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made Available					
(v)	E-Waste	No records made Available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	2-3 kg/day	No	No	No	Partial Compo	
(vii)	Recyclable Waste	No records made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

**8. Rain Water Harvesting System (RWHS) : No of RWHS Pits-02****Observations/Comments of the inspection on 21.02.2017**

- As informed by the Hotel, It was established in year 2012, Plot Area of the Hotel is 7845.08 Sq mtr and Built up Area is 26666.21 Sq mtr. Environment Clearance is available and Issued on 04.08.2010.
- The Hotel is having valid Consent to Operate under Air and Water Act which is valid till 24.02.2018.
- Water Supply by Delhi International Airport Pvt. Ltd.
- STP of capacity 275 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.

5. Flow meters were found installed only at outlet of STP. No separate energy meter provided for STP.
6. Logbook of STP maintained.
7. The information/record with regarding to mass water balance is sketchy and considering huge waste water generation and limited requirement for gardening purposes and cooling tower requirement, option of supply free of cost to the adjoining green area of DIAL needs to be explored to meet the commitment of ZLD as stipulated in the EC.
8. As per information provided for quantum of sludge generated from STP is only 2.5 kg/day which is used for horticulture.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the Hotel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
14. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT &Ors]

**Date of Inspection: 21.02.2012**

- (a) **Name and Address of the Establishment:** M/s A.B. HOTELS LTD (RADISSON BLUE PLAZA)  
(Bulk Waste Generator) NH- 8, Mahipalpur, Delhi-37.
- (b) **Owner /Partner / Managing Director's Name and Telephone No.** M/s Ramesh Kapur (M.D)  
011-26779191
- (c) **Month & Year of Establishment** March- 1993
- (d) **Name and Designation of the Person(s) Contacted at the site** Anil Sawhney  
9811989989
- (e) **Size of Premises (in Square Meter)** (i) Plot Area- 21530 M<sup>2</sup> (ii) Built up Area- 32138.94 M<sup>2</sup>

**2. Type of Establishment**

(Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.) Five Star Hotel  
No. of Room- 267, Restaurant-5, (350 Person)  
No. of Banquet Hall- 03 (600 Person)

**3. Status of Licenses**

- (a) Environmental Clearance Not Applicable
- (b) Consent under the Air & Water Acts Yes [Valid upto- 26.11.2018]
- (c) Municipal Corporation License Yes [Valid upto- 31.03.2017]
- (d) Certificate from Fire Department Yes [Valid upto- 30.03.2018]

**4. Water and Waste Water**

- (a) **Source of Water Supply** (i) **Bore well -02 Nos [01 Permission from DJB/CGWA-Yes] 01- Without Permission**  
(ii) Tankers [No of Tankers /day- 05] Record attached

**(b)Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	236000	Rooms= 267x2x180=	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	18000	96120	
(iii)	Kitchen	3300	Restaurant= 350x70=	
(iv)	Laundry	44000	24500	80% of 162620
(v)	Swimming Pool	18000	Banquet= 600x70=	
(vi)	Horticulture / Gardening	Nil	42000	
(vii)	Others	Nil		
	<b>Total Quantity</b>	349000	162620	130096

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999

## 5. Waste Water Management

### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	--	--	--	--	--
Sewage Treatment Plant (STP)	From hotel and laundry	450	Biological treatment	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
- (c) Whether All Sections connected to STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab is Meeting the Prescribed Standard: : Yes
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : Yes
- (h) Whether Separate Energy Meter provided for STP : No
- (i) Whether Log Book of ETP / STP is being maintained : Yes (But not with flow meter reading)
- (j) ETP / STP Sludge generation : Quantity 10 kg(as informed No record provided)
- Mode of Disposal : **Used as Compost in Horticulture**
- (j) Reuse of Treated Waste Water: (i) **Gardening / Horticulture** 75000 Liters /day  
(ii) **Cooling Tower** 78000 Liters /day  
(iii) **Boiler** Nil Liters /day  
(iv) **Flushing (Toilets)** 60000 Liters /day  
(v) **Any other** 12000 Liters /day  
**Total Quantity** **225000** Liters /day

## 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>06</b>	<b>LPG</b>	Hood and Suction arrangement provided to Channelize the kitchen emission over terrace
2.	<b>Boiler</b>	<b>03</b>	<b>HSD</b>	Stack attached to wet scrubber
3.	<b>Diesel Generator(s)</b>	<b>03</b> <b>2X1750KVA</b> <b>1X1050KVA</b>	<b>HSD</b>	DG sets are kept in acoustically treated enclosure and having adequate stack height
4.	<b>Hot water generator</b>	<b>03</b>	<b>HSD</b>	Adequate stack ht

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided –Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	305 kg/day (As Provided letter by the Concerned Unit) 362 kg Per day (Estimated peak generation)	Yes (Two Color Coded is not Provided)	Yes	Yes		M/s Chaudhary Contractor
(ii)	Construction & Demolition Waste	48.66 kg/Day	Yes	Yes	Yes		M/s S.R. Engg.
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	3.06kg/day(as informed)	Yes	Yes	No	M/s Bharat Oil Co	
(v)	E-Waste	0.13/day(as informed)	Yes	Yes	No	No	
(vi)	Lead Acid Battery Waste	As informed battery given back to the supplier under buy back agreement					
(vi)	Garden Waste	3 kg/day	Yes	Yes	Yes		Composting
(vii)	Recyclable Waste	No records made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

**8. Rain Water Harvesting System (RWHS): No of RWHS Pits- 04 Nos.**

### **Observations/Comments of the inspection on 21.02.2017**

1. As informed by the unit, the unit was established in year 1993, Plot Area of the Hotel is 21530 Sqmtr and Built up Area is 32138.94 Sqmtr. No Environment Clearance was available with the unit.
2. The Hotel is having valid Consent to Operate under Air and Water Act which is valid till 26.11.2018.
3. Water is Sourced from 2 bore well. Permission obtained for only one borewell from CGWA/DJB.
4. STP of capacity 450 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak (No information is available in the CPHEEO Manual regarding water requirement by banquet halls however DJB has considered Banquet Halls at par with the Restaurants).
5. Flow meters were installed at Inlet & outlet of STP same found in working condition. No separate energy meter provided for STP.
6. Logbook of STP maintained but not with flow meter reading & sludge quantity.
7. The information/record with regarding to water mass balance provided however as informed treated effluent re used for gardening purpose, cooling tower, Flushing etc.
8. No information could be provided for quantum of sludge but it was informed that sludge is used for horticulture.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the Hotel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
14. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP need to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI&Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT &Ors]

**Date of Inspection: 22.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment:** THE UMRAO HOTELS AND RESORTS PVT. LTD.  
(Bulk Waste Generator) NH-08, SAMALIKA, NEW DELHI-37.
- (b) **Owner /Partner / Managing Director's Name and Telephone No.** Mr. Virender Teotia  
011-47707070
- (c) **Month & Year of Establishment** August- 2012
- (d) **Name and Designation of the Person(s) Contacted at the site** Mr. Sanjay Chopra- Chief Engineer 8285107303  
Mr. Manish Bhardwaj- Finance Controller
- (e) **Size of Premises (in Square Meter)** (i) Plot Area- **39570 Sqmtr.** (ii) Built up Area- **3688.59 Sqmtr.**

**2. Type of Establishment**

- (Bulk Waste Generator) (Main Activities) Motels  
Units / Facilities (No of Rooms / Beds etc.) No. of Rooms – 55, Lawn- 04, (3000 Persons)  
Restaurant- 01 (46 Persons), Banquet Hall – 02 (128 Persons)

**3. Status of Licenses**

- (a) Environmental Clearance Not Applicable
- (b) Consent under the Air & Water Acts Yes [Valid upto 29.01.2018]
- (c) Municipal Corporation License Yes [Valid upto- 31.03.2017] Document not provided
- (d) Certificate from Fire Department Yes [Valid upto- 23.11.2019]

**4. Water and Waste Water**

- (a) **Source of Water Supply** (i) Bore well - 01 No [Permission from DJB- Yes]
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	40000	Rooms=	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	--	55x2x180=19800	
(iii)	Kitchen	15000	Restaurant=	80% of 241980 ltr.
(iv)	Laundry	1000	46x70=3220	
(v)	Swimming Pool	2000	Banquet=	
(vi)	Horticulture / Gardening	--	(3000+128)x70=	
(vii)	Others	--	218960	
	<b>Total Quantity</b>	58000	241980	193584

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999.

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	--	---	----	---	----
Sewage Treatment Plant (STP)	From Motel premises	80	Biological Treatment	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
- (c) Whether All Sections connected to ETP/STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab is Meeting the Prescribed Standard: : Yes
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : Flow meter Only at outlet of STP
- (h) Whether Separate Energy Meter provided for STP : No
- (i) Whether Log Book of ETP / STP is being maintained : Yes
- (j) ETP / STP Sludge generation : Quantity 2 kg (As informed. No record provided)  
Mode of Disposal : Used as Compost in Horticulture
- (j) Reuse of Treated Waste Water:
  - (i) Gardening / Horticulture 50,000 Litres/Day
  - (ii) Air Conditioning Plant / Cooling Tower 5000 Liters /day
  - (iii) Boiler ..... Liters /day
  - (iv) Flushing (Toilets) ..... Liters /day
  - (v) Any other ..... Liters /day

**Total Quantity - 55000 Liters /day**

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	Kitchen	03	LPG	Hood and suction arrangement provided to channelize the kitchen emissions over terrace
2.	Hot water Generator	02	HSD	Adequate stack height
3.	Diesel Generator(s)	02 1X500 KVA 1X380 KVA	HSD	Acoustic Enclosure and adequate stack height
4.	Others			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided –Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	205 kg/ Day (As Provided letter by the Concerned Unit) 372.4 kg Per day (Estimated peak generation)	No	No	No		M/s Chaudhary Contractor
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	200gm/day	No	No	No	Not provided	
(vii)	Recyclable Waste	No records made available					

\* Based on data furnished by the unit.

\*\* Based on full occupancy and floating population figure (per capita MSW generated, adopted from Solid Waste Management Manual, 2000).

**8. Rain Water Harvesting System (RWHS) : No****Observations/Comments of the inspection on 22.02.2017**

- As informed by the unit, the unit was established in year 2012, Plot Area of the motel is 39570 m<sup>2</sup> and Built up Area is 3688 sq m<sup>2</sup>. No Environmental Clearance was available with the unit.
- Motel is having valid Consent to Operate under Air and Water Act which is valid till 29.01.2018.
- Water is procured from 1 Ground Bore well.
- STP of capacity 80 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is less than the waste water generation during peak (No information is available in the CPHEEO Manual regarding

- water requirement by Banquet Halls however DJB has considered Banquet Halls at par with Restaurant).
5. Flow meters were found installed at outlet of STP only. No Separate energy meter for STP found installed.
  6. Logbook of STP was found maintained.
  7. The information/record with regard to mass water balance could not be shown during inspection however as informed treated effluent is reused for gardening purposes etc.
  8. It was informed that the quantum of sludge generated is approx. 2 kg/day and same is used for horticulture purposes.
  9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC lab. Results of the sample taken depicts that the motel is meeting the effluent standards.
  10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height. Hot Water generator are with adequate stack height.
  11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
  12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
  13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental Compliance is performed by outsource agency, which does not have adequate knowledge of the requirement.
  14. Log book/Formats for record keeping of all types of waste i.e. Municipal Solid waste, C&D waste, E-waste, etc. & operation of STP is need to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT &Ors]

**Date of Inspection: 22.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment:** M/s SHANTI HOSPITALITY PVT .LTD  
(Bulk Waste Generator) (FOUR POINTS BY SHERATON) Kh No-32/7  
Plot No. 9, Samalka, NH-8, New Delhi – 110037
- (b) **Owner /Partner / Managing Director's** Mr. Gurmeet Uberai  
Name and Telephone No.
- (c) **Month & Year of Establishment** September- 2012
- (d) **Name and Designation of the Person(s)** Sh. Manoj Kumar  
Contacted at the site 9999585311
- (e) **Size of Premises (in Square Meter)** (i) Plot Area-**38445 Sqmtr** (ii) Built up Area-**8361 Sqmtr**

**2. Type of Establishment**

- (Bulk Waste Generator) (Main Activities / Motel  
Units / Facilities (No of Rooms / Beds etc.) Rooms – 70, Restaurant- 01, (60 Persons)  
Lawn – 03, (900 Persons),

**3. Status of Licenses**

- (a) Environmental Clearance Not Applicable
- (b) Consent under the Air & Water Acts Yes [Valid upto-26.04.2017]
- (c) Municipal Corporation License **Yes** [Valid upto-**31.03.2017**]
- (d) Certificate from Fire Department **Yes** [Valid upto-**15.06.2017**]

**4. Water and Waste Water**

- (a) **Source of Water Supply** (i) **Bore well – 03** Nos. [Permission from DJB/CGWA- No]
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	30888	Rooms= 70x2x180= 25200 Restaurant= 60x70= 4200 Lawn= 900x70= 63000	80% of 92400
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	15000 for AC 4000 for boiler		
(iii)	Kitchen	6400		
(iv)	Laundry	10800		
(v)	Swimming Pool	1800		
(vi)	Horticulture / Gardening	--		
(vii)	Others	11500		
	<b>Total Quantity</b>	80388	92400	73920

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)					
Sewage Treatment Plant (STP)	From Motel	100	Biological Process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
- (c) Whether All Sections connected to STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab is Meeting the Prescribed Standard: : Yes
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : Only at outlet but not working
- (h) Whether Separate Energy Meter provided for STP : No
- (i) Whether Log Book of ETP / STP is being maintained : No
- (j) ETP / STP Sludge generation : No record provided  
 Mode of Disposal : **Used as Compost in Horticulture**
- (j) Reuse of Treated Waste Water:
  - (i) Gardening / Horticulture 46898 Liters/Day
  - (ii) Cooling Tower 12000 Liters /day
  - (iii) Boiler Nil Liters /day
  - (iv) Flushing (Toilets) 2500 Liters /day
  - (v) Any other ..... Liters /day

**Total Quantity 61398 Liters /day**

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	Kitchen	02	LPG	Hood and Suction arrangement provided to Channelize the kitchen emission over terrace
2.	Boiler	02	HSD	Adequate stack ht
3.	Diesel Generator(s)	02 2X500 KVA	HSD	DG sets are kept in acoustically treated enclosure and having adequate stack height
4.	Others			

## 7. Waste Management

S. No.	Type of Waste	Quantity of Waste *Generated/ *Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers are provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes/No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes/No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	75 kg/day(As Provided letter by the Concerned Unit) 166 kg Per day (Estimated peak generation)	No	No	Yes		M/s Chaudhary Contractor
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	140 litre/year. No records made available					
(vi)	Garden Waste	20 kg/day	No	No	No	Partially Composting	
(vii)	Recyclable Waste	6 kg No records made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

## 8. Rain Water Harvesting System (RWHS) : No of RWHS Pit-08 (Partially functional)

### Observations/Comments of the inspection on 22.02.2017

- As informed by the unit, the unit was established in year 2012, Plot Area of the Motel is **38445 Sqmtr** and Built up Area is **8361 Sqmtr**. No Environment Clearance was available with the unit.
- The Motel is having valid Consent to Operate under Air and Water Act which is valid till 26.04.2017.

3. Water is Sourced from 3 bore well. No permission obtained for any borewell from CGWA/DJB.
4. STP of capacity 100 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak.
5. Flow meters were found installed only at outlet of STP and same found not working. No separate energy meter provided for STP.
6. Logbook of STP not maintained.
7. The information/record with regarding to mass water balance could not be shown during inspection however as informed treated effluent is re used for gardening purpose.
8. No information could be provided for quantum of sludge but it was informed that sludge is used for horticulture.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the Motel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
14. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

## Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT & Ors]

**Date of Inspection: 22.02.2017**

### 1. General Information

- (a) **Name and Address of the Establishment:** Bird Hospitality Services Pvt. Ltd., (The Roseate)  
(Bulk Waste Generator) Nh-8, Opposite 21<sup>st</sup> Milestone, Samalkha, New Delhi
- (b) **Owner /Partner / Managing Director's** : Ankur Bhatia  
Name and Telephone No. 9717208882
- (c) **Month & Year of Establishment** : September- 2013
- (d) **Name and Designation of the Person(s)** : Mr. Alok Bansal  
Contacted at the site 8800895056
- (e) **Size of Premises (in Square Meter)** : (i) Plot Area-**15175.71 Sq. m** (ii) Built up Area- **6265.88 Sq.m**

### 2. Type of Establishment

- : Hotel  
(Bulk Waste Generator) (Main Activities / Rooms- 50 No., Restaurant – 03 No. (274) Persons  
Units / Facilities (No of Rooms / Beds etc.) Banquet – 01 (100 Persons)

### 3. Status of Licenses

- (a) Environmental Clearance : Not Applicable  
(b) Consent under the Air & Water Acts : Yes [Valid upto 11.02.2019]  
(c) Municipal Corporation License : Yes [Valid upto- 31.03.2017]  
(d) Certificate from Fire Department : Yes [Valid upto 15-08-2019]

### 4. Water and Waste Water

- (a) **Source of Water Supply** : (i) Bore well- 2 Nos [Permission from DJB/CGWA- yes]  
(b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	56500	Rooms= 50x2x180= 18000	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	9400	Banquet= 100x70=7000	
(iii)	Kitchen	14300	Restaurant= 274x70= 19180	80% of 44180
(iv)	Laundry	1900		
(v)	Swimming Pool	4900		
(vi)	Horticulture / Gardening	40000		
(vii)	Others	1000		
	<b>Total Quantity</b>	128000	44180	35344

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	-		-		-
Sewage Treatment Plant (STP)	Motel premises	50 KLD	Biological Process	D/G trap, 1q. tank, aeration tank, settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc.
  - (c) Whether All Sections connected to STP : Yes
  - (d) Whether Adequacy Report of STP submitted : Yes
  - (e) Whether Effluent sample taken by DPCC laboratory : Yes
  - (f) Whether Effluent analysis report from DPCC lab : Yes
- is Meeting the Prescribed Standard:
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : Yes (only outlet)
  - (h) Whether Separate Energy Meter provided for STP : Yes (If Yes, Meter Reading 186656 Kwh)
  - (i) Whether Log Book of STP is being maintained : Yes
  - (j) STP Sludge generation : Quantity 01 Kg /day  
 Mode of Disposal : Used as Compost in Horticulture
  - (k) Reuse of Treated Waste Water :
    - (i) Gardening / Horticulture 42000 Liters /day
    - (ii) Air Conditioning Plant / Cooling Tower NIL Liters /day
    - (iii) Boiler NIL Liters /day
    - (iv) Flushing (Toilets) NIL Liters /day
    - (v) Any other NIL Liters /day
- Total Quantity: 42000 Liters /day**

### 6. Air Pollution Aspects

S. No.	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken	Remarks (If any)
(a)	<b>Kitchen</b>	<b>02</b>	<b>LPG</b>	hood and Suction are provided to Channelize the kitchen over terrace.	
<b>2.</b>	<b>Boiler</b>	<b>02</b>	<b>HSD</b>	Adequate stack height	
<b>3.</b>	<b>Diesel Generator(s)</b>	<b>02 (625, 320 KVA)</b>	<b>HSD</b>	DG sets are kept in acoustically treated enclosure and having adequate stack height	
<b>4.</b>	<b>Others</b>				

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated /**Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Container is provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided –Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	66 Kg./day (As Provided letter by the Concerned Unit) 87.4 kg Per day (Estimated peak generation)	No	No	Yes		M/s Chaudhary Contractor
(ii)	Construction & Demolition Waste	No Record made available					
(iii)	Domestic Hazardous Waste	No Record made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No Record made available					
(v)	E-Waste	No Record made available					
(vi)	Lead Acid Battery Waste	No Record made available					
(vi)	Garden Waste	3 kg/day	No	No	No	Not Provided	
(vii)	Recyclable Waste	No Record made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

**8. Rain Water Harvesting System (RWHS) : No of RWHS Pits - 05 Nos. (Partially functional)**

**Observations/Comments of the inspection on 22.02.2017**

- As informed by the unit, the unit was established in year 2013, Plot Area of the Motel is 15175.71 Sqmtr and Built up Area is 6265.88 Sqmtr. No Environment Clearance was available with the unit.
- The Motel is having valid Consent to Operate under Air and Water Act which is valid till 11.02.2019.
- Water is procured from 2 Bore wells. Obtained registration from CGWA for the same.
- STP of capacity 50 KLD have been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak (No information is available in the CPHEEO Manual regarding

- water requirement by banquet halls however DJB has considered Banquet Halls at par with the Restaurants).
5. Flow meters was found installed only at outlet of STP and same found not working. Separate energy meter provided for STP.
  6. Logbook of STP maintained.
  7. The information/record with regarding to mass water balance could not be shown during inspection however as informed treated effluent is re used for gardening purpose.
  8. No information could be provided for quantum of sludge but it was informed that sludge is used for horticulture.
  9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the Motel is meeting the effluent standards.
  10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
  11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
  12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
  13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
  14. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT &Ors]

**Date of Inspection: 22.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment:** M/s ORANA HOTEL & MOTEL (A UNIT OF FRIENDSHIPTIME.COM PVT LTD) Samalka, NH-8, New Delhi-110037  
(Bulk Waste Generator)
- (b) **Owner /Partner / Managing Director's Name and Telephone No.** Mr. Amit Gupta  
8588883826
- (c) **Month & Year of Establishment** 2015
- (d) **Name and Designation of the Person(s) Contacted at the site** TARUN THAREJA  
8588883826
- (e) **Size of Premises (in Square Meter)** (i) Plot Area- **25896 Sqm** (ii) Built up Area **13950 Sqm.**

**2. Type of Establishment**

- (Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.)) Motel with 49 Rooms, Restaurant- 01, (44 Persons)  
Party Pandal. – 02 (500+1000 Persons)

**3. Status of Licenses**

- (a) Environmental Clearance **Not Applicable**
- (b) Consent under the Air & Water Acts **Yes [Valid upto- 7.09.2020]**
- (c) Municipal Corporation License **Yes [Valid upto-31.03.2017]**
- (d) Certificate from Fire Department **Yes [Valid upto- 15.05.2018]**

**4. Water and Waste Water**

- (a) **Source of Water Supply** : (i) Through Tankers (Document not provided)
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	14.88 KLD	Rooms= 49x2x180= 17640	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed		Restaurant= 44x70= 3080	
(iii)	Kitchen	3.84 KLD	Party lawn= (500+1000)x70= 105000	80% of 125720
(iv)	Laundry	10.00 KLD		
(v)	Swimming Pool			
(vi)	Horticulture / Gardening			
(vii)	Others			
	<b>Total Quantity</b>	28.72 KLD	125720	100576

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational / Not Operational)
Effluent Treatment Plant (ETP)	Laundry	15	Physicochemical Process	Mixing tank, Settling tank etc	Operational
Sewage Treatment Plant (STP)	Motel, ETP	50	Biological Process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
- (c) Whether All Sections connected to STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab : Yes
- is Meeting the Prescribed Standard:
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : Outlet only & same found not working.
- (h) Whether Separate Energy Meter provided for STP : No
- (i) Whether Log Book of ETP / STP is being maintained : Not maintained properly
- (j) ETP / STP Sludge generation : 1 kg/day (As informed)
- Mode of Disposal : Disposed along with solid waste & Gardening/ Horticulture
- (j) Reuse of Treated Waste Water:
 

(i) Gardening / Horticulture	All Treated Water	
(ii) Cooling Tower	.....	Liters /day
(iii) Boiler	.....	Liters /day
(iv) Flushing (Toilets)	.....	Liters /day
<b>Total Quantity</b>		<b>Liters /day</b>

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	Kitchen	01	LPG	Hood and Suction arrangement provided to Channelize the kitchen emission Over terrace.
2.	Boiler	02	HSD	Adequate stack height
3.	Diesel Generator(s)	02 1X500KVA 1X180KVA	HSD	DG sets are kept in acoustically treated enclosure and having adequate stack height
4.	Others			

## 7. Waste Management

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided –Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	35 kg/day(As Provided letter by the Concerned Unit) 203 kg Per day (Estimated peak generation)	No	No	No		Vishnu Kumar, Burari (Agreement not provided )
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available	Yes	Yes	No		ACE Engineer & Consultants
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	2 kg	No	No	No	Not Provided	
(vii)	Recyclable Waste	No records made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

## 8. Rain Water Harvesting System (RWHS) : Nil

### Observations/Comments of the inspection on 22.02.2017

- As informed by the unit, the unit was established in year 2015, Plot Area of the Motel is **25876 Sqmtr** and Built up Area is **13950 Sqmtr**. No Environment Clearance was available with the unit.
- The Motel is having valid Consent to Operate under Air and Water Act which is valid till 07.09.2020.
- Water is procured from Tankers without information on sourcing.
- STP of capacity 50 KLD & ETP of capacity 15 KLD have been installed. STP is biological type & ETP is physiochemical process and both were found operational. As per calculations of DJB, STP design capacity is less than the waste water generation during

peak (No information is available in the CPHEEO Manual regarding water requirement by banquet halls/party lawn however DJB has considered Banquet Halls/party lawn at par with the Restaurants).

5. Flow meters were found installed only at outlet of STP and same found not working. No separate energy meter provided for STP.
6. Logbook of STP not maintained properly (without flow meter readings).
7. The information/record with regarding to mass water balance could not be shown during inspection however as informed treated effluent is re used for gardening purpose.
8. No information could be provided for quantum of sludge but it was informed that sludge is used for horticulture and disposed through municipal solid waste.
9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the Motel is meeting the effluent standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
14. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

## Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT &Ors]

**Date of Inspection: 22.02.2017**

### 1. General Information

- (a) **Name and Address of the Establishment:** J.J.V Marketing Hotel Pvt. Ltd., (Hotel Nikunj)  
(Bulk Waste Generator) 22<sup>nd</sup> Mile Stone, Near IGI Airport, NH-8, New Delhi
- (b) Owner /Partner / Managing Director's : Sh. Hitesh Bhardwaj  
Name and Telephone No. 9810506000
- (c) Month & Year of Establishment : 2010
- (d) Name and Designation of the Person(s) : Sh. Swetap Mishra  
Contacted at the site 9650394474
- (e) Size of Premises (in Square Meter) : (i) Plot Area-**15681.27 M<sup>2</sup>**.(ii) Built up Area- **2350.02 M<sup>2</sup>**

### 2. Type of Establishment

- (Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.) : Motel  
No of Rooms – 30, No of Restaurant- 01 (42 Persons)  
No of Banquet Hall -02(250Persons)

### 3. Status of Licenses

- (a) Environmental Clearance : Not Applicable
- (b) Consent under the Air & Water Acts : Yes [Valid upto 22.02.2020]
- (c) Municipal Corporation License : Yes [**Copy Not provided**]
- (d) Certificate from Fire Department : Not Provided

### 4. Water and Waste Water

- (a) **Source of Water Supply** : (i) **Bore well- 01 No [Permission from DJB/CGWA- No]**
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	<b>No Information provided</b>	Rooms= 30x2x180= 10800	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed		Restaurant= 42x70= 2940	
(iii)	Kitchen		Banquet= 250x70=17500	80% of 31240
(iv)	Laundry			
(v)	Swimming Pool			
(vi)	Horticulture / Gardening			
(vii)	Others			
	<b>Total Quantity</b>		31240	24992

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational / Not Operational)
Effluent Treatment Plant (ETP)					
Sewage Treatment Plant (STP)	From Motel	30	Biological process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc.
- (c) Whether All Sections connected to STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab is Meeting the Prescribed Standard: : No
- (g) Whether Flow Meter Installed at Inlet and Outlet of ETP/STP : Yes (Only at Inlet of STP)
- (h) Whether Separate Energy Meter provided for ETP/STP : Yes (If Yes, Meter Reading 12687.3 Kwh)
- (i) Whether Log Book of ETP / STP is being maintained : Yes ( Not proper)
- (j) ETP / STP Sludge generation : No record provided.  
 Mode of Disposal (i) Disposed along with Solid Waste  
 (ii) **Used as Compost in Horticulture (as informed)**
- (k) Reuse of Treated Waste Water: No Information provided

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>1</b>	<b>LPG</b>	Hood and Suction arrangement provided to Channelize the kitchen emission Over terrace.
2.	<b>Boiler</b>	<b>1</b>	<b>HSD</b>	Adequate stack ht provided.
3	<b>Diesel Generator(s)</b>	<b>2 (380 &amp; 500 KVA)</b>	<b>HSD</b>	DG sets are kept in acoustically treated Enclosure and having adequate stack height
4.	<b>Others</b>			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Container provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	59.2 kg Per day (Estimated peak generation)**	No	No	No		Not Provided
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	No records made available	No	No	No	Not provided	
(vii)	Recyclable Waste	No records made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

**8. Rain Water Harvesting System (RWHS) : NIL**

**Observations/Comments of the inspection on 22.02.2017**

1. As informed by the Motel, the Motel was established in year 2010, Plot Area of the Motel is 15681.27Sq. m and Built up Area is 2350.02 Sq. m. No Environment Clearance was available with the unit.
2. The Motel is having valid Consent to Operate under Air and Water Act which is valid till 22.02.2020.
3. Water is procured through one Borewell and not having Permission from DJB/CGWA for the same.
4. STP of capacity 30 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is more than the waste water generation during peak

5. Flow meter found installed at inlet and no installed at outlet of STP. Separate energy meter provided for STP.
6. Though Log Book for operation of the STP has been maintained however lacks important information particularly w.r.t Quantity of waste water treated each day and sludge generated. Proper maintenance of the Logbook for operation of STP is required.
7. The information/record with regard to mass water balance could not be shown during inspection however as informed treated effluent is re used for gardening.
8. No information could be provided for quantum of sludge but it was informed that sludge is used for horticulture.
9. Effluent samples were collected by DPCC laboratory from the Inlet and Outlet of STP during inspection on 22.02.2017 and Effluent analysis report of DPCC dated 07.03.2017 shows that STP is not meeting the prescribed standards.
10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
14. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste , C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

**Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area**

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT &Ors]

**Date of Inspection: 22.02.2017**

**1. General Information**

- (a) **Name and Address of the Establishment** M/s MAPPLE EMERALD  
(Bulk Waste Generator) Kh. 41/2/2, 1, 3, 41/3, 41/9, Min 37/23/12, 37/24/2, 34/24/2 Samalkha Village, Rajokri, NH- 8, Delhi – 110038.
- (b) **Owner /Partner / Managing Director's Name and Telephone No.** Mr. Rohit Sapra ( 9810337338)
- (c) **Month & Year of Establishment** 2010
- (d) **Name and Designation of the Person(s) Contacted at the site** Mr. Balram Thakur (9313113157)
- (e) **Size of Premises (in Square Meter)** (i) Plot Area- 25781.42 (ii) Built up Area-6600.72

**2. Type of Establishment**

- (Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.)) Motel  
Rooms – 49 No, Banquet Hall – 03(1000 persons)  
Restaurant – 01(60 persons), lawn- 03(700 persons)

**3. Status of Licenses**

- (a) Environmental Clearance Not Applicable
- (b) Consent under the Air & Water Acts Yes [Valid upto-24.08.2019]
- (c) Municipal Corporation License Yes [Valid upto- 31.03.2017]
- (d) Certificate from Fire Department Yes [Valid upto- 16.06.2019]

**4. Water and Waste Water**

- (a) **Source of Water Supply** (iii) Through **Tankers (No detail provided)**
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	<b>25 KLD</b>	Rooms= 49x2x180= 17640	
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	--	Restaurant= 60x70= 4200	
(iii)	Kitchen	15 KLD	Banquet= (1000+700)x70= 119000	80% of 140840
(iv)	Laundry	--		
(v)	Swimming Pool	--		
(vi)	Horticulture / Gardening	--		
(vii)	Others	--		
	<b>Total Quantity</b>		140840	112672

\* As per information furnished by the unit.

\*\* Estimated as per standards of CPHEEO Manual, 1999

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	--	--	--	--	--
Sewage Treatment Plant (STP)	From Motel	80	Biological process	O/G trap, Eq. tank, Aeration tank, Settling tank etc	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc
- (c) Whether All Sections connected to STP : Yes
- (d) Whether Adequacy Report of STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : Yes
- (f) Whether Effluent analysis report from DPCC lab : Yes  
is Meeting the Prescribed Standard:
- (g) Whether Flow Meter Installed at Inlet and Outlet of STP : **No**
- (h) Whether Separate Energy Meter provided for STP : **No**
- (i) Whether Log Book of ETP / STP is being maintained : **No**
- (j) ETP / STP Sludge generation : 2-3 kg/day (as informed) No record provided  
Mode of Disposal : Used as Compost in Horticulture  
& disposed along with solid waste
- (j) Reuse of Treated Waste Water: **(i) Gardening / Horticulture** All Treated Water

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken
1.	<b>Kitchen</b>	<b>02</b>	<b>LPG</b>	Hood and Suction arrangement provided to Channelize the kitchen emission Over terrace.
2.	<b>Boiler</b>	<b>02</b>	<b>HSD</b>	Adequate stack ht provided.
3.	<b>Diesel Generator(s)</b>	<b>02</b> <b>1X380KVA</b> <b>1X600KVA</b>	<b>HSD</b>	DG sets are kept in acoustically treated enclosure and having adequate stack height
4.	<b>Others</b>			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Proper Containers are provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	10 kg/day(As Provided letter by the Concerned Unit) 225 kg Per day (Estimated peak generation)	No	No	No		Not Provided
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	(2-3 litre/month) No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	12 kg	Yes	--		Not Provided	
(vii)	Recyclable Waste	No records made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy and floating population figure (per capita MSW generated, adopted from solid waste management manual 2000).

**8. Rain Water Harvesting System (RWHS) : No of RWHS Pits- 02 (Non- Functional)**

**Observations/Comments of the inspection on 22.02.2017**

1. As informed by the unit, the unit was established in year 2010, Plot Area of the Motel is 25781.42 Sqmtr and Built up Area is 6600.72 Sqmtr. No Environment Clearance was available with the unit.
2. The Motel is having valid Consent to Operate under Air and Water Act which is valid till 24.08.2019.
3. Water is procured from Tankers with no information on sourcing of water.
4. STP of capacity 80 KLD has been installed. STP is biological type and was found operational. As per calculations of DJB, STP design capacity is less than the waste water generation during peak (No information is available in the CPHEEO Manual regarding

- water requirement by banquet halls however DJB has considered Banquet Halls at par with the Restaurants).
5. Flow meters not installed at Inlet & outlet of STP. No separate energy meter provided for STP.
  6. Logbook of STP not maintained.
  7. The information/record with regarding to mass water balance could not be shown during inspection however as informed treated effluent is re used for gardening purpose.
  8. No information could be provided for quantum of sludge but it was informed that sludge is used for horticulture.
  9. One sample of effluent was taken at the inlet of STP and outlet of STP by DPCC Lab. Results of the sample taken depicts that the Motel is meeting the effluent standards.
  10. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
  11. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
  12. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
  13. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
  14. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.

## Inspection Report of Sub Committee II in respect of Bulk Waste Generators in South Delhi Municipal Corporation Area

[W.R.T Orders of Hon'ble National Green Tribunal Dated 10.01.2017 in OA No. 199 of 2014 in the matter of Almitra H. Patel Vs UOI & Ors and OA No. 281 of 2016 in the matter of Kudrat Sandhu Vs Govt of NCT & Ors]

**Date of Inspection: 07.02.2017**

### 1. General Information

- (a) **Name and Address of the Establishment:** Unison Hotels Ltd.( The Grand),  
Vasantkunj, Phase-II, Nelson Mandela Road, New Delhi- 70  
(Bulk Waste Generator) Vasant Kunj
- (b) **Owner /Partner / Managing Director's Name and Telephone No.** : Mr. Umesh Saraf
- (c) **Month & Year of Establishment** : 1999
- (d) **Name and Designation of the Person(s) Contacted at the site** : Mr. Om Prakesh (Director of Engineer)
- (e) **Size of Premises (in Square Meter)** : (i) Plot Area- **40000 Sqmtr.** (ii) Built up Area- **12000 Sqmtr**

### 2. Type of Establishment

- (Bulk Waste Generator) (Main Activities / Units / Facilities (No of Rooms / Beds etc.)) : Hotel  
No. of Rooms = 390, Banquet hall – 04 (550 Persons)  
Restaurant = 07 (681 Persons), Party Lawn = 2 (450 Persons)  
Terrace = 700 Persons

### 3. Status of Licenses

- (a) **Environmental Clearance** : Information not provided
- (b) **Consent under the Air & Water Acts** : Yes [Valid upto 28.01.2020]
- (c) **Municipal Corporation License** : Yes [Valid upto- **31.03.2018**]
- (d) **Certificate from Fire Department** : No Information provided

### 4. Water and Waste Water

- (a) **Source of Water Supply** : (i) Bore well - 06 Nos [Registration from CGWA-Yes]
- (b) **Water Consumption / Requirement and Waste Water Generation**

S.No.	Purpose /Use	*Average Water Consumption/ Requirement (in Liters /day)	**Peak Water Consumption/Requirement at full capacity (in Liters /day)	Waste Water Generation at full capacity (in Liters /day)
(i)	Domestic	100 KLD		
(ii)	Air Conditioning /Cooling Plant or Boiler Feed	100KLD	390x2x180= 140400	
(iii)	Kitchen	100 KLD	450+550+700+681= 2381x70=166670	307070x0.8=245656
(iv)	Laundry	1.5 KLD		
(v)	Swimming Pool	4.5 KLD		
(vi)	Horticulture / Gardening	250 KLD		
(vii)	Others			
	<b>Total Quantity</b>	<b>556 KLD</b>	<b>307.070 KLD</b>	<b>245.656 KLD</b>

\*As per information furnished by the unit

\*\*Estimated as per Standards of CPHEEO, 1999 manual

### 5. Waste Water Management

#### (a) Waste Water Treatment System

Waste Water Treatment System Provided	Provided for Treatment of Waste Water Generated from	Capacity (in KLD)	Type of Treatment & Technology used (Biological / Physicochemical Process)	Main Constituent Units	Status of ETP/STP (Operational/ Not Operational)
Effluent Treatment Plant (ETP)	Laundry				<b>Non operational</b>
Sewage Treatment Plant (STP)	Hotel Premises	750 KLD (as per Adequacy Report)	Biological Process	O/G trap, Eq. tank, Aeration Settling tank etc.	Operational

- (b) Mode of Disposal of Treated Waste Water : Gardening etc.
- (c) Whether All Sections connected to ETP/STP : Yes
- (d) Whether Adequacy Report of ETP/STP submitted : Yes
- (e) Whether Effluent sample taken by DPCC laboratory : No
- (f) Whether Effluent analysis report from DPCC lab is Meeting the Prescribed Standard : N. A. , Since no sample taken during inspection
- (g) Whether Flow Meter Installed at Inlet and Outlet of ETP/STP: Yes (Only at Outlet but faulty)
- (h) Whether Separate Energy Meter provided for ETP/STP : No
- (i) Whether Log Book of ETP / STP is being maintained : Not properly maintained
- (j) ETP / STP Sludge generation : Quantity 4 Kg /day  
 Mode of Disposal : (i) Disposed along with Solid Waste  
 (ii) **Used as Compost in Horticulture**
- (k) Reuse of Treated Waste Water : (i) Gardening / Horticulture 200 KL/Day  
 (ii) Air Conditioning Plant / Cooling Tower 50 KL/Day  
 (iii) Boiler ..... Liters /day  
 (iv) Flushing (Toilets) 50 KL/Day  
 (v) Any other 50 KL/Day  
**Total Quantity: 350 KL/day**

### 6. Air Pollution Aspects

S.No	Source of Air Pollution	No and Capacity	Fuel Used	Pollution Control Measures Taken	Remarks (If any)
1.	<b>Kitchen</b>	<b>07</b>	<b>PNG</b>	Hood and Suction arrangement provided to Channelize the kitchen emission over terrace	
2.	<b>Boiler</b>	<b>02</b>	<b>PNG+HSD</b>	Stack attached to wet scrubber	
3.	<b>Diesel Generator(s)</b>	<b>03x1250 KVA)</b>	<b>HSD</b>	DG sets are kept in acoustically treated enclosure and having adequate stack height	
4.	<b>Others</b>	<b>-</b>			

**7. Waste Management**

S. No.	Type of Waste	Quantity of Waste *Generated/ **Estimated (Kg/day)	Waste Management System at the premises site			Disposal Mechanism	
			Whether Proper Segregation is being done	Whether Containers are provided for storing the Waste	Whether Log Book for Waste generation and disposal is being maintained	Through Authorized Vendor (Copy of Authorization provided – Yes /No)(Name & Address of the Vendor)	Through Private Vendor (Copy of Bill Provided – Yes /No ) (Name & Address of the Vendor)
(i)	Municipal Solid Waste	(628.10 kg Per day (Estimated peak generation)**)*	No	No	No		No records made available
(ii)	Construction & Demolition Waste	No records made available					
(iii)	Domestic Hazardous Waste	No records made available					
(iv)	Hazardous Waste (Used /Waste Oil )	No records made available					
(v)	E-Waste	No records made available					
(vi)	Lead Acid Battery Waste	No records made available					
(vi)	Garden Waste	No records made available					
(vii)	Recyclable Waste	No records made available					

\*Based on the data furnished by the unit.

\*\*Based on the full occupancy + floating population figure adopted from MSW Manual 2000.

**8. Rain Water Harvesting System (RWHS) : No of RWHS Pits - 02**

**Observations/Issues of the inspection on 07.02.2017**

1. As informed by the Hotel, the Hotel was established in year 1999, Plot Area of the Hotel is 40,000 Sqmtr and Built up Area is 12,000 Sq mtr. Information not provided w.r.t. Environment Clearance.
2. The Hotel is having valid Consent to Operate under Air and Water Act which is valid till 28.01.2020.
3. Source of water from 06 bore wells. Registration obtained for all borewells from CGWA.
4. ETP & STP installed. The capacity of STP is 750 KLD (As per STP Adequacy Report). STP is biological type and same found operational however ETP found non-operational. Laundry wastewater is being sent to STP for treatment As per calculations of DJB, STP design capacity is more than the waste water generation during peak (No information is available in the CPHEEO Manual regarding water requirement by banquet halls however DJB has considered Banquet Halls at par with the Restaurants).

5. Flow meters were installed only at outlet of STP but same found non-operational. No separate energy meter provided for STP.
6. Though Log Book for operation of the STP has been maintained however lacks important information particularly w.r.t Quantity of waste water treated each day and sludge generated. Proper maintenance of the Logbook for operation of STP is required.
7. The information/record with regarding to water mass balance could not be provided during inspection however as informed treated effluent re used for gardening purpose, cooling tower, Flushing etc.
8. No information could be provided for quantum of sludge but it was informed that sludge is used for horticulture.
9. Unit has provided channelization system for kitchen emissions with adequate stack height. DG sets are having acoustic enclosure and adequate stack height.
10. Separate dustbin for bio-degradable or non-biodegradable MSW not provided within the premises. The MSW generated is given to private vendor (no copy of authorization from concerned Municipal Corporation was made available) who claims to dispose the same at Sanitary Landfill / Dhalao, but no such record made available.
11. Operation of STP including periodical O & M needs to be ensured for which (a) inflow / outflow meters reading, (b) Separate energy meter and (c) Quantum of sludge need to be recorded at frequent interval.
12. All the Environmental aspects like O&M of the STP, routine maintenance of Environmental compliances is performed by outsource agency, which does not have adequate knowledge of requirement.
13. Logbook /Formats for record keeping of all type of waste i.e. Municipal solid waste, C&D waste, E-waste etc & operation of STP is need to be standardized, so that the uniformity can be maintained.