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BEFORE THE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH, NEW DELHI

Original Application No. 199 of 2014

Almitra H. Patel & Anr.

... Applicant

Versus

Union of India & Ors.

... Respondents

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(Sanjoy Ghose)  
Addl. Standing Counsel (Civil)  
A-187, Defense Colony,  
New Delhi-110024  
GNCT of Delhi

New Delhi  
Dated:

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**PRINCIPAL BENCH, NEW DELHI**  
**Original Application No. 199 of 2014**

**Almitra H. Patel & Anr.**

**... Applicant**

**Versus**

**Union of India & Ors.**

**... Respondents**

**Affidavit of Mr. Chetan B Sanghi, aged 50 years, Pr. Secretary (Urban Development), Urban Development Department, 9<sup>th</sup> Level, 'C' Wing, Delhi Secretariat, New Delhi**

I, the above named deponent, do hereby solemnly affirm and state on oath as under:

1. That I am the Principal Secretary, Urban Development Department, GNCT of Delhi. I am aware of the facts as gained from the records of the department. I am competent to depose this affidavit. The Hon'ble Tribunal vide order dated 13<sup>th</sup> July, 2015 has passed certain directions.
  
2. I say that the Department of Urban Development is coordinating between the Local Municipal Bodies, who factually and legally are bound by each and every part of implementation of the Hon'ble Tribunal orders, as the subject matter of the case falls under their jurisdiction, the said bodies being statutory bodies and the legislature has empowered them to do so. Accordingly, the reports and statements of expenditure of the Local Bodies, namely the North Delhi Municipal Corporation, South Delhi Municipal

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Corporation, East Delhi Municipal Corporation, New Delhi Municipal Council, Delhi Cantonment Board are being submitted. The reports being submitted pertain to the Action Plan for management and handling of municipal solid waste regarding collection, storage and disposal and also regarding MSW disposal plant either RDF or waste to energy or any other plant provided in the state.

3. I say that the said reports include the Action Plan for municipal solid waste regarding collection, storage and disposal and also regarding MSW disposal plant either RDF or waste to energy or any other plant provided in North Delhi Municipal Corporation is hereby annexed as **Annexure A.**
  
4. I say that the said reports include the Action Plan for municipal solid waste regarding collection, storage and disposal and also regarding MSW disposal plant either RDF or waste to energy or any other plant provided in South Delhi Municipal Corporation is hereby annexed as **Annexure B.**
  
5. I say that the said reports include the Action Plan for municipal solid waste regarding collection, storage and disposal and also regarding MSW disposal plant either RDF or waste to energy or any other plant provided in East Delhi Municipal Corporation is hereby annexed as **Annexure C.**

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6. I say that in so far as New Delhi Municipal Council concerned Detailed Project Report for solid waste management, collection, storage and disposal and also regarding MSW disposal plant either RDF or waste to energy or any other plant in the NDMC area is annexed as **Annexure D.**
  
7. I say that the said reports include the Action Plan for municipal solid waste regarding collection, storage and disposal and also regarding MSW disposal plant either RDF or waste to energy or any other plant provided in Delhi Cantonment Board is hereby annexed as **Annexure E.**
  
8. I say that in all the reports received from the Corporations, requirement of land from different agencies such as DDA, Development Department, etc. has been cited.
  
9. I say that a meeting will be convened shortly calling all the stake holders including the Land Owning Agencies to address the issue.
  
10. I say that GNCT of Delhi as well as local authorities shall abide the directions as passed by the Tribunal in accordance with law, from time to time.

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11. I say that during the meeting held on 27.07.2015, it is stressed upon to all the corporations to examine in non-tradition method of solid waste management and disposal and a long term plan is prepared taking into account the present constraints.

12. I say that it has also been stressed upon the corporations/agencies that they should also explore the new technique available in other countries where the need of landfill sites has reached zero level.

~~W. J. 30.7.15~~  
DEPONENT

**Verification :**

Verified at New Delhi, on this        day of July, 2015 that the contents of this affidavit are true and correct as gained from the record. No part of it is false and nothing material has been concealed therefrom.

~~W. J. 30.7.15~~  
DEPONENT

Annexure 'A'

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NORTH DELHI MUNICIPAL CORPORATION  
OFFICE OF THE CHIEF ENGINEER (DEMS)  
8<sup>TH</sup> LEVEL CIVIC CENTRE MINTO ROAD NEW DELHI-110002

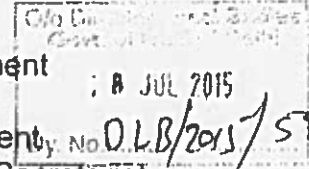
No. D.213 /CE/(DEMS)/NDMC/2015/

Dated 28/7/15

To,

1. The Pr. Secretary (UD)  
Govt. of NCT of Delhi  
Urban Development department  
10<sup>th</sup> level, C-wing, Delhi Secretariat  
I.P. Estate, New Delhi-110002

2. The Secretary, Environment  
Govt. of NCT of Delhi  
Department of Environment  
6<sup>th</sup> Level C- Wing, Delhi Secretariat  
I.P. Estate, New Delhi-110002



Sub:- **STATUS REPORT WITH REGARD TO THE COLLECTION, STORAGE AND DISPOSAL OF MUNICIPAL SOLID WASTE IN THE MATTER OF DAVINDER KUMAR Vs UNION OF INDIA & ORS AND ALMITRA H PATEL & ANR. Vs UNION OF INDIA ORS, O.A NO. 21 OF 2013 AND 199 OF 2014 IN PURSUANCE OF THE ORDERS OF THE HON'BLE NATIONAL GREEN TRIBUNAL NEW DELHI DATED 13.7.2015, IN NORTH DELHI MUNICIPAL CORPORATION (NORTH DMC).**

Sir,

In the aforesaid matter the Hon'ble National Green Tribunal vide its orders dated 13.7.2015 inter-alia directed are as under:-

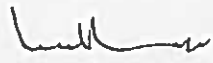
"... All the states should positively file their status report with regard to the collection, storage and disposal of Municipal Solid Waste in the entire state. Further they should clarify, if any, MSW disposal plant either RDF or Waste to Energy or any other more plants have been provided in the state or they are in the proposal stage in that behalf.

Let the Secretary, Environment and Secretary, Urban Development of each state to file their affidavits personally and if not filed within three weeks from today, the Secretary concerned shall personally be liable for payment of cost, which will be imposed and the amount would be the extent of Rs, 50,000/- each....."

In this regards a meeting was held on 22.7.2015 at 3:30 PM under the chairmanship of Pr. Secretary (PWD/UD) Govt. of NCT Delhi at 5<sup>th</sup> Level, Delhi Secretariat New Delhi-110002. This meeting was attended by the officers of all concerned department. During the course of the meeting it was decided that the status report with regard to the collection, storage and disposal of Municipal Solid Waste be sent to the office of Pr. Secretary and Secretary Environment by North Delhi Municipal Corporation.

Accordingly the status report with regard to the collection, storage and disposal of Municipal Solid Waste as prevailing in the North Delhi Municipal Corporation (North DMC) is enclosed herewith for taking further necessary action please.

Encl: - As above.

  
CE (DEMS) North DMC

ADLB

DS (MB)

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STATUS REPORT WITH REGARD TO THE COLLECTION, STORAGE AND DISPOSAL OF MUNICIPAL SOLID WASTE IN THE MATTER OF DAVINDER KUMAR Vs UNION OF INDIA & ORS AND ALMITRA H PATEL & ANR. Vs UNION OF INDIA ORS, O.A NO. 21 OF 2013 AND 199 OF 2014 IN PURSUANCE OF THE ORDERS OF THE HON'BLE NATIONAL GREEN TRIBUNAL NEW DELHI DATED 13.7.2015, IN NORTH DELHI MUNICIPAL CORPORATION (North DMC).

In the aforesaid matter the Hon'ble National Green Tribunal vide its orders dated 13.7.2015 inter-alia directed are as under:-

"... All the states should positively file their status report with regard to the collection, storage and disposal of Municipal Solid Waste in the entire state. Further they should clarify, if any, MSW disposal plant either RDF or Waste to Energy or any other more plants have been provided in the state or they are in the proposal stage in that behalf.

Let the Secretary, Environment and Secretary, Urban Development of each state to file their affidavits personally and if not filed within three weeks from today, the Secretary concerned shall personally be liable for payment of cost, which will be imposed and the amount would be the extent of Rs. 50,000/- each....."

The status report with regard to the collection, storage and disposal of Municipal Solid Waste as prevailing in the North Delhi Municipal Corporation (North DMC) is as given below:-

1. COLLECTION/STORAGE OF MUNICIPAL SOLID WASTE (MSW)/garbage.

At present about 3100 MT of garbage (MSW), about 2000 MT of Construction and Demolition (C&D) Waste/Malba and 300 MT of silt is collected daily. About 3100 MT of garbage/MSW is collected from about 486 Nos. of Storage/Receptacles/Collection Centres (Dhalaos/Dustbins/ steel bins /Open sites) existing at different places in all six zones of North DMC, namely City Zone, Sadar Pahar Ganj Zone, Karol Bagh Zone, Civil Line Zone, Rohini Zone and Narela Zone. This MSW does not include waste picked up by Rag pickers/kabariwala at the door step and Collection Centers. This waste generated by the citizens is deposited in the receptacles either by the citizens themselves or through private 'waste collectors' and the same is taken to Sanitary Land Fill site at Bhalswa, Integrated Waste Processing/Disposal Facilities at Narela-Bawana, Waste to Energy Plant Okhla and Compost Plant Okhla for processing/disposal.

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## 2. TRANSPORTATION OF MUNICIPAL SOLID WASTE.

North DMC outsourced the work of Municipal Solid Waste of three zones namely City Zone, Sadar Pahar Ganj Zone and Karol Bagh Zone through Concessionaires for collection, segregation, transportation and disposal from receptacles to Sanitary Land Fill sites and compost/processing plants.

The work of Collection & Transportation of Municipal Solid Waste of Narela Zone is being carried out by departmental staff and machinery.

North DMC also outsourced through concessionaire the work of door to door collection, segregation and transportation of MSW in Civil Line Zone and Rohini Zone. Under this project the concessionaire has set up compost plant, and Engineered Sanitary Land Fill site at Narela-Bawana. This project is in operation. The RDF material is also being segregated from Solid Waste and the same is storage at site for further its utilization at Plant Narela Bawana.

## DISPOSAL OF MUNICIPAL SOLID WASTE

Presently about 3100 MT of garbage, 2000 MT of C&D Waste/Malba and 300 MT of Silt are collected daily and the same is disposed/processed at the following facilities.

S. No.	Name of facilities	Disposal/Processing of Waste (Approx.)		
		MSW (In MT)	Malba (In MT)	Silt (In MT)
1.	Sanitary Land Fill Bhalswa, North DMC.	1200	100	300 = (100+200) 100 MT and 200 MT of silt is being received at SLF Bhalswa daily from North DMC and PWD respectively.
2.	Integrated Waste Processing/ Disposal Facilities at Narela-Bawana.	1500	Nil	Nil



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	North DMC.			
3.	Waste to Energy Plant, Okhla (SDMC).	400	Nil	Nil
4.	(C&D) Waste/Malba/ Debris Plant, at Burari near Jahagir Puri.	Nil	1900 (350+1550) About 350 MT and 1550 MT of Malba is being received at C&D Waste Plant, Burari daily from City Zone, Sadar Pahar Ganj Zone, Karol Bagh Zone and PWD, DMRC, CPWD etc respectively.	Nil

From the chart given above it is evident that out of 3100 MT of MSW about 63% is processed at Integrated Waste Facility Narela-Bawana and Waste to Energy Plant Okhla and about 37% is dumped at Sanitary Land Fill site Bhalswa.

**STATUS OF EXISTING FACILITIES:-**

**A. SANITARY LAND FILL SITE BHALSWA.**

North Delhi Municipal Corporation has only one Sanitary Land Fill site Bhalswa is situated near Mukarba Chowk and has an area of approximately 40 acres. This site was started during the year 1994 whereas the Municipal Solid Waste (Management & Handling) Rules 2000 came into force during the year 2000. Basically, the Sanitary Land Fill Bhalswa is a dumping site and is not a secured Sanitary Land Fill site. The operation includes disposal of waste, leveling and providing cover over it with inert material. This Sanitary Land fill site though got exhausted long time back and the height of fill at present is about 45mtr above the general ground level, but due to non availability of any other alternate site, the present site is being continued, by raising the level of filling above the general ground level. Things have now come to such a pass that it is now getting difficult with each passing day to operate the present land fill site

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but having no other option this site has to be continued even at the risk of loss of human life and property.

Due non-availability of land for disposal of waste, efforts are being made to use this site by increasing the height of filling above general ground level and to develop this site in the shape of a Hillock. The methodology used for this type of filling is that first working cells are earmarked and all around these cells and embankment is created by excavating the stabilized garbage. Over this garbage filling of Malba/Debris or any hard material is done and once the surface gets hard enough, Water Bound Macadam (WBM) road is laid for movement of Refuse Removal Vehicles. Once the cell is ready filling of garbage can be started and each time a cell gets filled up to the built up road level, again the embankments height is raised and filling of garbage taken up. The kachha open drains on periphery of SLF site is also constructed for collection of waste water of SLF site for disposal. The process is repeated several times till the gradient from the approach road permits. By adopting this method, the life of land fill site is gets enhanced.

**b). INTEGRATED WASTE PROCESSING / DISPOSAL FACILITIES AT NARELA-BAWANA.**

Integrated Waste Processing/Disposal Facilities is setup at Narela-Bawana. The capacity of this plant is to handle 2500 MT of garbage per day. The plant capacity is being gradually increased according to the waste generation time to time and at present daily in take average is around 1500 MT per day. The plant is being operated by M/s Delhi Municipal Solid Waste Services Limited.

**c). CONSTRUCTION AND DEMOLITION (C&D) WASTE /DEBRIS/ MALBA PLANT AT BURARI.**

Construction and Demolition (C&D) Waste plant has been installed at Burari near Jahangir Puri. This C&D Waste Plant having capacity of 2000 MT of C&D Waste/Malba/Debris per day for processing/recycling of the same. This plant is being operated by M/s ILFS at their own cost.

**FUTURE PLAN FOR MANAGEMENT AND HANDLING OF MUNICIPAL SOLID WASTE USING MODERN TECHNOLOGIES.**

**FUTURE GENERATION OF MSW AND PROPOSED DISPOSAL.**

It is estimated that by 2024 the total quantum of waste collected shall be 14300 MT per day, out of which North DMC shall collect approx 5000 MT per day. Forecast for increase in Population and Municipal Solid Waste, in Delhi during 2015-2024 is as follows, to give an overview:

Year	2015	2020	2024
Population of the state of Delhi	198,50,240	223,16,664	245,08,689
MSW Collected (TPD)	9,427	11,883	14,302
MSW Collected per capita (Kg per day)	0.475	0.532	0.584

Source:- Master Plan report for Delhi by COWI (April 2004).

From the above forecast it is evident that the MSW generation in Delhi shall grow at a very fast rate, whereas due to rapid urbanization of the city the availability of land for setting up MSW processing plants has decreased. For the processing of the projected quantities of wastes that would be generated and other types of waste, it is proposed to set up processing facilities which are given below:-

S. No.	Name of facilities	Disposal/Processing of Waste (Approximately per day)			
		MSW (In MT)	Malba (In MT)	Silt (In MT)	Ash/ Reject (In MT)
1.	Proposed Site <u>Sultanpur Dabas</u> (Bawana)				
	i. Waste to Energy Plant.	1000			
	ii. Compost Plant.	500			
	iii. Engineered SLF site.				450 + 150 = 600
2.	Proposed Site near Puthkurd.				
	i. C&D Waste Plant.		500		

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3.	Proposed Site behind APMC Compost Plant on GT Karnal Road and near village Hamirpur.  (i) Waste to Energy Plant.	500			
4.	Site no. B along side of under construction of 30 meter wide Road and adjoining proposed Electric Sub Station in Rani Khera.  (i) Engineered Sanitary Land Fill for rejects, silt and misc. wastes.			300	150 + 300 = 450
6.	Site no. C, left side of proposed 30 meter wide road in Rani Khera.  (i) Waste to Energy Plant.	500			
7.	Site near village Rani Khera  (i) C&D Waste.		1000		
8.	Already existing Integrated Waste Processing/Disposal Facilities at Narela-Bawana  Waste to Energy Plant  Compost Plant.  Engineered Land Fill.	2000  500			750
9.	Already existing C&D Waste at Burari.		2000		
GRAND TOTAL		5000	3500	300	1800

#### WASTE TO ENERGY PLANT:-

On account of scarce availability of land, there is a need to set up Waste to Energy Plant which can consume large amounts of garbage as well as generates electricity also. The only Integrated Waste Processing/Disposal Facilities is setup at Narela-Bawana. The capacity of this plant is to handle 2500 MT of Waste per day. The plant capacity is being gradually increased according to the waste generation time to

time and at present consumes approximate 1500 MT of garbage on a daily basis which amounts to approximately 50% of the total waste collected in North DMC.

North DMC proposes to establish additional processing and Waste to Energy Plants for disposal of MSW at following locations:

- i. Proposed site near Sultanpur Dabas Integrated Waste Facility Capacity – 1000 TPD (Waste to Energy Plant) + 500 TPD (Compost Plant).
- ii. Proposed Site behind APMC Compost Plant on GT Karnal Road and near village Hamirpur – 500 TPD (Waste to Energy Plant).
- iii. Proposed Site no. C, left side of proposed 30 meter wide road in Rani Khara. 500 TPD (Waste to Energy Plant).

DISPOSAL OF REJECT/ RESIDUE:-

During the course of incineration of garbage at the Waste to Energy Plant, the residue which amounting to approximately 30-40% of the total garbage consumed is required to be dumped on secured Sanitary Land Fill site. The requirement of land for disposal of Residue/ reject is estimated as follows:

Year	2015	2024
Waste Generation (MT Per day)	3100	5000
Quantity processed (MT Per day)	1950	5000
Remaining (Unprocessed) (MT Per day)	1150	0
Residue (%) from processed	40%	30%
Quantum of Residue (MT Per day)	800	1500
Total to be disposed at Land Fill Sites (MT Per day)	1950	1500

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For disposal of Residue and MSW the following land/ sites are proposed:-

- a. Engineered Land fill site at Sultanpur Dabas (Bawana) Capacity – 650 TPD
- b. Engineered Sanitary Land Fill Site no. B along side of under construction of 30 meter wide Road and adjoining proposed Electric Sub Station in Rani Khera-450 TPD.

**STATUS OF AVAILABILITY OF LAND FOR DEVELOPMENT OF SLF SITES AS WELL AS SETUP OF PLANT FOR PROCESSING OF MSW AND DEBRIS/C&D WASTE/MALBA.**

To implement the aforesaid Action Plan, the requirement of the land is absolutely essential for North DMC. While the North DMC is trying its utmost to get the lands allotted from DDA/GNCTD not much progress has been made. The status as on date is as under:-

i. **RULE POSITION:-**

As per rules it is the responsibility of DDA to select / identify, acquire the land for land fill sites and to take clearance from Delhi Pollution Control Committee, Central Pollution Control Board, Ridge Management Board, Environment Department and Central Empowered Committee, appointed by the Apex Court etc for disposal/ processing of MSW and handover the same to North DMC free of cost and free from all encumbrances.

ii. **ORDERS OF THE HON'BLE SUPREME COURT OF INDIA**

In the Writ Petition CWP No. 888/1996 in the matter of Almitra H. Patel and Anr Vs U.O.I. & others; relating to Solid Waste Management in India, the Hon'ble Supreme Court of India in its decision dated 15.2.2000 gave directions to this effect that:

*"We direct that sites for landfills will be identified bearing in mind the requirement of Delhi for the next twenty years within a period of four weeks from today by the exercise jointly conducted by Union of India through the Ministry of Urban Development, Government of National Capital Territory of Delhi, Commissioner, MCD, and Chairman, NDMC and other heads of statutory authorities like the DDA etc. These sites will be identified keeping in mind the environmental considerations and in identifying the same Central Pollution Control Board's advice will be taken into consideration. The sites so identified shall be handed over to the MCD and or NDMC within two weeks of the identification, free from all encumbrances and without MCD or the NDMC having to make any payment in respect thereof.*

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We further direct Union of India through Ministry of Urban Development, Government of National Capital Territory of Delhi, Commissioner, MCD, Chairman, NDMC and other statutory authorities like DDA etc. to identify and make available to the MCD and NDMC within four weeks from today sites for setting up compost plants. Initially considering the extent of solid waste, which is required to be treated by compost plants, the number of sites, which should be made available, will be eight. Such sites shall be handed over to the MCD/NDMC free of cost and free from all encumbrances within two weeks of identification. MCD and NDMC shall thereupon take appropriate steps to have the compost plants/processing plants established or caused to be established and to be in operation by 30th September, 2000"

iii. LANDS ALLOTTED BY DDA/GNCTD.

In compliance of the aforesaid directions the following lands were allotted/handed over by the Delhi Development Commissioner and Delhi Development Authority to erstwhile MCD for development into SLF sites and for setting up Compost/Processing plants against the requirement of 1500 acres land for the next 20 years, out of which the requirement of land of North DMC is about 600 Acres. Status of land is as under:-

Sl. No.	Name of site	Area (in Acre)	Present status comments
1.	On Narela Bawana Road in North Delhi	150	This site has been handed over by DDA to erstwhile MCD. The project of processing /disposal of waste at this site is in operational.
	Total	150	Effective land made available to North DMC for processing/disposal of MSW is 150 acres against the requirement of land 600 Acres.

In addition to the above the following two sites have been allotted/ handed over to North DMC by DDA 16.6.2014. Details of the same are as under:-

S.No.	Location of site	Approx. area (in acres)	Purpose
1	Site no. 1-4 Industrial area near Rani Khara, Rohini Phase-IV, Delhi.	3.55	It is proposed that this site will be used for setting up plant for processing /disposal of Construction and Demolition (C&D) Waste/Malba.
2.	PVC Bazar Project, Tikari Kalan, Rohtak	4.00	It is proposed that this site will be used for setting up of plant for processing / disposal of

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	Road, Zone-L.		Horticulture Waste, processing/ recycling of Plastic Waste and E- Waste.
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In addition to the above the following three sites have also been proposed to be allotted/handed over to North DMC by DDA. Details of the same are as under:-

S. No.	Name of proposed site	Area (In Acres)	Purpose
1.	Site no. A, adjoining proposed site of Slaughter House and behind Delhi Metro Railway Land in Rani Khera.	5.96	Research & Development (R&D) Recycling of Waste
2.	Site no. B along side of under construction of 30 meter wide Road and adjoining proposed Electric Sub Station in Rani Khera.	33.24	Engineered Sanitary Land Fill for disposal of rejects, silt and misc. wastes.
3.	Site no. C, left side of proposed 30 meter wide road in Rani Khera.	16.28	Waste to Energy Plant.

**TRANSFER OF ISSUE OF ALLOTMENT OF LAND FROM HON'BLE SUPREME COURT TO HON'BLE DELHI HIGH COURT.**

i. In the matter of Almitra H. Patel and Anr Vs U.O.I. & others W. P. (C) No. 888 of 1996, the issue pertaining to allotment of land for SLF sites for Municipal Corporation of Delhi (MCD) was transferred to Hon'ble High Court of Delhi by the Hon'ble Supreme Court of India on 19.7.2000 with the request to expeditiously hear and dispose of the matter preferably within three months.

ii. The Hon'ble High Court in the said matter bearing W. P. (C) No. 5236 of 2010 constituted a committee under the chairmanship of Secretary (UD) GNCTD comprise of



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a senior officer each from DDA, MCD, Ministry of Urban Development, Land & Building Department, Ministry of Environment GNCT of Delhi. The committee has recommended 31 sites for Solid Waste Management Facilities, out of these 31 sites, 18 sites fall in SDMC jurisdiction, 8 sites fall in North DMC jurisdiction and 5 sites fall in EDMC jurisdiction. List of these 31 sites is annexed herewith as Annexure-"A" (Colly).

Out of 8 sites falling in North DMC following 2 sites as shown in TABLE NO. 1 are best suited for processing/disposal of Municipal Solid Waste under the jurisdiction of North Delhi Municipal Corporation. The details of the same are as under:-

TABLE NO. 1

S. No	Name of Site	Approx. Area of land (In Acres)	Ownership of land	Purposes	Jurisdiction of Corporation	Remarks
1.	Site near Sultanpur Dabas (Bawana)	9.5	Gaon Sabha	Integrated Waste Processing/ Disposal Facilities	North DMC	GNCTD should hand over the land to North DMC.
2.	Site behind APMC compost Plant on GT Karnal Road and near village Hamirpur	27.5	Private	Processing/ Disposal of MSW	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.

In addition to the above, the following three sites as shown in TABLE NO. 2 have also been proposed to be allotted/handed over to North DMC by DDA for Solid Waste Management. Details of the same are as under:-

TABLE NO. 2

S. No.	Name of proposed site	Area (In Acres)	Purpose
1.	Site no. A, adjoining proposed site of Slaughter House and	5.96	Research & Development (R&D)

	behind Delhi Metro Railway Land in Rani Khera.		Recycling of Waste
2.	Site no. B along side of under construction of 30 meter wide Road and adjoining proposed Electric Sub Station in Rani Khera.	33.24	Engineered Sanitary Land Fill for disposal of rejects, silt and misc. wastes.
3.	Site no. C, left side of proposed 30 meter wide road in Rani Khera.	16.28	Waste to Energy Plant.

In view of above, it is humbly requested the Hon'ble Court to may kindly be directed the DDA and GNCTD to allot/handover the aforesaid proposed sites as shown in Table no. 1 and Table no. 2 to North Delhi Municipal Corporation (North DMC) for Solid waste Management facility in first instance on urgent basis, as there is no land available for these purposes.



Ex. Engineer (SLF)  
Bhalswa, North DMC

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Annexure-'A" (Colly)

Sub: - BEFORE THE HON'BLE HIGH COURT FOR DELHI TITLED AS ALMITRA H. PATEL AND ANR. V/S UNION OF INDIA & OTHERS, CWP NO. 5236/2010.

Ref: - LIST OF 31 SITES IDENTIFIED/RECOMMENDED BY THE COMMITTEE.

S. No	Name of Site	Approx. Area of land (In Acres)	Ownership of land	Purpose	Jurisdiction of Corporation	Remarks
1.	Site near village Ghitorni	184	Forest Deptt.	Processing/di sposal of inert material/ C&D Waste	SDMC	GNCTD should hand over the site to SDMC.
2.	Site near village Mandi/ Jounapur	59	Forest Deptt.	Processing/di sposal of inert material/ C&D Waste	SDMC	GNCTD should hand over the site to SDMC
3.	Site near Jounapur Pahari on Mandi road	100	Gaon Sabha	Processing/di sposal of inert material/ C&D Waste.	SDMC	GNCTD should hand over the site to SDMC
4.	Bhatti Mines	2500	Forest Deptt.	Processing/di sposal of MSW/Inert Material	SDMC	About 500 acres of land be allotted/handed over to SDMC by GNCTD.
5.	Site extension of existing SLF site Okhla Ph-I on the land of CONCOR and CCI.	129.35	CONC OR/ CCI/No rthern Railway	Most suitable for Integrated Waste Processing/ Disposal Facilities	SDMC	DDA should hand over the land to SDMC.
6.	On Takhand land near SLF Okhla	36	DDA	Most suitable for Integrated Waste	SDMC	DDA should hand over the land to SDMC.

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	Ph-I			Processing/ Disposal Facilities		
7.	Site near Metro Station (under construction) opposite Kalandi Kunj	32	DDA	Processing /disposal of C&D Waste/inter material	SDMC	DDA should hand over the land to SDMC.
8.	Near Chatter Pur Phari	05	DDA	Processing/di sposal of C&D Waste/Inert material	SDMC	DDA should hand over the land to SDMC.
9.	Site near resettlement colony Madan Pur Khadar	200	Private	Integrated Waste Processing/ Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
10.	Site near Sewage Treatment Plant in Sector-16-D, Dwarka Phase-II.	10	DDA	Setting up of Compost Plant.	SDMC	Pending for future
11.	Site near IGNOU Back of Maidan Garhai	20	DDA	Decentralizati on of MSW Management.	SDMC	Pending for future
12.	Site near Rang Puri	20	Forest Depart ment	Decentralizati on of MSW Management	SDMC	Pending for future
13.	Site between Chawala Village and Najafgarh Drain	10	DDA	Decentralizati on of MSW Management.	SDMC	Pending for future

14.	Site near village Neelwal	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
15.	Site near village Hiran Kudna	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
16.	Site near village Nilothi	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
17.	Site near village Bakkarwala	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
18.	Site near village Saffidpur Ranholla	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
19.	Site near Sultanpur Dabas (Bawana)	95	Gaon Sabha	Integrated Waste Processing/Disposal Facilities	North DMC	GNCTD should hand over the land to North DMC.
20.	Site near Puthkurd	145	Private	Integrated Waste Processing/Disposal Facilities	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.

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14.	Site near village Neelwal	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
15.	Site near village Hiran Kudna	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
16	Site near village Nilothi	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
17.	Site near village Bakkarwala	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
18	Site near village Saffidpur Ranholla	Chunk Land	Private	Integrated Waste Processing/Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
19.	Site near Sultanpur Dabas (Bawana)	95	Gaon Sabha	Integrated Waste Processing/Disposal Facilities	North DMC	GNCTD should hand over the land to North DMC.
20.	Site near Puthkurd	145	Private	Integrated Waste Processing/Disposal Facilities	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.

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21.	Site behind APMC compost Plant on GT Karnal Road and near village Hamirpur	27.5	Private	Processing/ Disposal of MSW	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.
22.	Site on the Main Bhaktawar pur road near Palla Village	42.5	Private	Processing/ Disposal of C&D Waste	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.
23.	Site located near village Palla and Haryana Border	62.5	Private	Processing/ Disposal of MSW	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.
24.	Site near village Sadpur and Nizampur	Chunk Land	Private	Integrated Waste Processing/ Disposal Facilities	North DMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to North DMC.
25.	Site near PVC Godown on Tikri Road near village Mundka	Chunk Land	Private	Integrated Waste Processing/ Disposal Facilities	North DMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to North DMC.
26.	Site near village Bajitpur near Auchandi Road	08	Gaon Sabha	Processing of C&D Waste	North DMC	GNCTD should hand over the land to North DMC.
27.	Near Shastri Park (2 Acres)	02	DDA	Processing of C&D Waste	EDMC	This land has been handed over to EDMC by DDA.
28.	In front of DTC Bus Depot Yamuna Vihar	10	DDA	Solid Waste Management facility	EDMC	DDA should hand over the land to EDMC.

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29.	Site near Delhi Police Training Complex, Sonia Vihar (large chunk of land)	50	DDA	Integrated Waste Processing/ Disposal Facilities	EDMC	DDA should hand over the land to EDMC.
30.	Near Collage on Wazirabad Road (a large chunk of land)	10	DDA	Solid Waste Management facility	EDMC	DDA should hand over the land to EDMC.
31.	Site near Khichari Pur	2.5	DDA	Solid Waste Management facility	EDMC	DDA should hand over the land to EDMC.

Ex. Engineer (SLF)  
Bhalswa, North DMC



Annexure D

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Govt. of NCT of Delhi

27 JUL 2015

By No. DLE/2015/58914

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SOUTH DELHI MUNICIPAL CORPORATION  
OFFICE OF THE DIRECTOR (DEMS)  
2<sup>ND</sup> LEVEL CIVIC CENTRE MINTO ROAD NEW DELHI-110002

No. 983 /Dir. (DEMS)/2015/

Dated 27/7/15

To,

The Pr. Secretary (UD)  
Govt. of NCT of Delhi  
Urban Development department  
10<sup>th</sup> level, C-wing, Delhi Secretariat  
I.P. Estate, New Delhi-110002

The Secretary, Environment  
Govt. of NCT of Delhi  
Department of Environment  
6<sup>th</sup> Level C- Wing, Delhi Secretariat  
I.P. Estate, New Delhi-110002

Sub:- STATUS REPORT WITH REGARD TO THE COLLECTION, STORAGE AND DISPOSAL OF MUNICIPAL SOLID WASTE IN THE MATTER OF DAVINDER KUMAR Vs UNION OF INDIA & ORS AND ALMITRA H PATEL & ANR. Vs UNION OF INDIA ORS, O.A NO. 21 OF 2013 AND 199 OF 2014 IN PURSUANCE OF THE ORDERS OF THE HON'BLE NATIONAL GREEN TRIBUNAL NEW DELHI DATED 13.7.2015, IN SOUTH DELHI MUNICIPAL CORPORATION (SDMC).

Sir,

in the aforesaid matter the Hon'ble National Green Tribunal vide its orders dated 13.7.2015 inter-alia directed are as under:-

"... All the states should positively file their status report with regard to the collection, storage and disposal of Municipal Solid Waste in the entire state. Further they should clarify, if any, MSW disposal plant either RDF or Waste to Energy or any other more plants have been provided in the state or they are in the proposal stage in that behalf.

Let the Secretary, Environment and Secretary, Urban Development of each state to file their affidavits personally and if not filed within three weeks from today, the Secretary concerned shall personally be liable for payment of cost, which will be imposed and the amount would be the extent of Rs, 50,000/- each....."

In this regards a meeting was held on 22.7.2015 at 3:30 PM under the chairmanship of Pr. Secretary (PWD/UD) Govt. of NCT Delhi at 5<sup>th</sup> Level, Delhi Secretariat New Delhi-110002. This meeting was attended by the officers of all concerned department. During the course of the meeting it was decided that the status report with regard to the collection, storage and disposal of Municipal Solid Waste be sent to the office of Pr. Secretary and Secretary Environment by South Delhi Municipal Corporation.

Accordingly the status report with regard to the collection, storage and disposal of Municipal Solid Waste as prevailing in the South Delhi Municipal Corporation (SDMC) is enclosed herewith for taking further necessary action please.

Encl. As above

*[Signature]*  
Director (DEMS) SDMC 27/7/15

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**STATUS REPORT WITH REGARD TO THE COLLECTION, STORAGE AND DISPOSAL OF MUNICIPAL SOLID WASTE IN THE MATTER OF DAVINDER KUMAR Vs UNION OF INDIA & ORS AND ALMITRA H PATEL & ANR. Vs UNION OF INDIA ORS, O.A NO. 21 OF 2013 AND 199 OF 2014 IN PURSUANCE OF THE ORDERS OF THE HON'BLE NATIONAL GREEN TRIBUNAL NEW DELHI DATED 13.7.2015, IN SOUTH DELHI MUNICIPAL CORPORATION (SDMC).**

In the aforesaid matter the Hon'ble National Green Tribunal vide its orders dated 13.7.2015 inter-alia directed are as under:-

"... All the states should positively file their status report with regard to the collection, storage and disposal of Municipal Solid Waste in the entire state. Further they should clarify, if any, MSW disposal plant either RDF or Waste to Energy or any other more plants have been provided in the state or they are in the proposal stage in that behalf.

Let the Secretary, Environment and Secretary, Urban Development of each state to file their affidavits personally and if not filed within three weeks from today, the Secretary concerned shall personally be liable for payment of cost, which will be imposed and the amount would be the extent of Rs, 50,000/- each....."

The status report with regard to the collection, storage and disposal of Municipal Solid Waste as prevailing in the South Delhi Municipal Corporation (SDMC) is as given below :-

**1. COLLECTION/STORAGE OF MUNICIPAL SOLID WASTE (MSW)/GARBAGE.**

At present about 2700 MT of garbage (MSW), about 600-700 MT of Construction & Demolition (C&D) Waste/malba, 300 MT of silt and 600-650 MT of Ash (received from Waste to Energy Plant, Okhla) is collected daily. About 2700 MT of garbage/MSW is collected from about 1200 Nos. of Storage/Receptacles/Collection Centers (Dhalaos/Dustbins/ steel bins /Open sites) existing at different places in all four zones of SDMC namely Central Zone, South Zone, West Zone and Najafgarch

Zones. This MSW does not include waste picked up by the Rag pickers/kabariwala at the door step and Collection Centers. The waste generated by the citizens is deposited in the receptacles either by the citizens themselves or through private 'waste collectors' and the same is taken to i) Sanitary Land Fill site at Okhla ii) Waste to Energy Plant Okhla iii) Compost Plant Okhla iv) Sanitary Land Fill Site Bhalswa (North DMC) for processing/disposal.

2. TRANSPORTATION OF MUNICIPAL SOLID WASTE.

SDMC outsourced the work of Municipal Solid Waste of three zones namely Central Zone, South Zone, and West Zone through Concessionaires for collection, segregation, transportation and disposal from receptacles/Storage to Sanitary Land Fill sites and compost/processing plants.

The work of Collection and Transportation of Municipal Solid Waste of Najafgarh Zone is being carried out by departmental staff and machinery.

3. DISPOSAL OF MUNICIPAL SOLID WASTE

Presently about 2700 MT of Municipal Solid Waste(MSW) /garbage, 600/700 MT of Construction & Demolition Waste (C&D), about 300 MT of silt and about 600 MT of Ash are collected daily and the same is disposed/processed at the following facilities.

S. No	Name of facilities	Disposal/Processing of Waste			
		MSW (In MT)	Malba (In MT)	Silt (In MT)	Ash (In MT)
1.	Sanitary Land Fill <u>Okhla.</u>	500	600	200	600
2.	Waste to Energy	1250	Nil	Nil	Nil

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	Plant, Okhla.				
3.	Compost Plant Okhla	150	Nil	Nil	Nil
4.	Sanitary Land Fill Bhalswa, (North DMC)	800	100	100	Nil
	Total=	2700	700	300	600

From the chart given above it is evident that out of 2700 MT of MSW about 54% is processed at the Waste to Energy Plant Okhla, Compost Plant Okhla and about 46% is dumped at Sanitary Land Fill site Okhla and Sanitary Land Fill Site Bhalswa (North DMC).

#### STATUS OF EXISTING FACILITIES:-

##### a. SANITARY LAND FILL OKHLA PHASE-I.

SDMC has only one Sanitary Land Fill site Okhla Phase-I situated at Maa Anand Mai Road spread over an area of approximately 32 acres. This site was started during the year 1996 whereas Municipal Solid Waste (Management and Handling) Rules 2000 came into force during the year 2000. Basically, the the Sanitary Land Fill, Okhla is a dumping site and is not a secured Sanitary Land Fill Site. The operation includes disposal of waste, its leveling and providing cover over it with inert material. This Sanitary Land fill site though got exhausted long time back and the height of fill at present is about 50mtr above the general ground level, but due to non availability of any alternate site, the present site is being continued, by raising the level of filling above the general ground level. Things have now come to such a pass that it is now getting difficult with each passing day to operate the present land fill site. Since there is no other option this site has to be continued even at the risk of loss of human life and property.

Due non-availability of land for disposal of waste, efforts are being made to use this site by increasing the height of filling above general ground level and to develop this site in the shape of a Hillock. The methodology used for this type of filling is that first working cells

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are earmarked, around these cells and embankment is created by excavating the stabilized garbage. Over this garbage filling of Malba/Debris or any hard material is done and once the surface gets hard enough, Water Bound Macadam (WBM) road is laid for movement of Refuse Removal Vehicles. Once the cell is ready filling of garbage can be started and each time a cell gets filled up to the built up road level; again the embankments height is raised and filling of garbage taken up. The kachha open drains on periphery of SLF site is also constructed for collection of waste water of SLF site for disposal. The process is repeated several times till the gradient from the approach road permits. By adopting this method, the life of land fill site is gets enhanced.

**b. WASTE TO ENERGY PLANT OKHLA.**

There is only one Waste to Energy Plant at Okhla having capacity of 1950 MT of MSW per day to produce 16 MW of power is being operated by Timar Pure Okhla Waste Management Company Private Ltd. (Managed by M/s Jindal Urban Infrastructure Ltd under the administrative control of Power Department of GNCTD). It is also submitted that after processing the waste at Waste to Energy plant Okhla, about 30-40 % residues is returned back at Sanitary Land Fill site Okhla Ph-I for disposal.

**c. COMPOST PLANT OKHLA.**

One Compost Plant Okhla, having capacity of 200 MT of MSW per day for converting into compost is being operated by M/s ILFS at their own cost.

**FUTURE PLAN FOR MANAGEMENT AND HANDLING OF MUNICIPAL SOLID WASTE USING MODERN TECHONOLOGIES.**

**FUTURE GENERATION OF MSW AND PROPOSED DISPOSAL**

It is estimated that by 2024 the total quantum of waste collected shall be 14300 MT per day, out of which SDMC shall collect approx 4500 MT per day. Forecast for increase in Population and Municipal Solid Waste, in Delhi during 2015-2024 is as follows, to give an overview:

Year	2015	2020	2024
Population of the state of Delhi	198,50,240	223,16,664	245,08,689
MSW Collected (TPD)	9,427	11,883	14,302
MSW Collected per capita (Kg per day)	0.475	0.532	0.584

Source: - Master Plan report for Delhi by COWI (April 2004)

From the above forecast it is evident that the MSW generation in Delhi shall grow at a very fast rate, whereas due to rapid urbanization of the city the availability of land for setting up MSW processing plants has decreased. For the processing of the projected quantities of wastes that would be generated and other types of wastes, it is proposed to set up processing facilities which are given below:-

S.No	Name of facilities	Disposal/Processing of Waste (per day)			
		MSW (In MT)	Malba (In MT)	Silt (In MT)	Ash/ Reject (In MT)
1.	Proposed site at extension of existing SLF site Okhla Phase-I on the land of container depot/CCI. 1. Waste to Energy Plant. 2. Compost Plant 3. C& D Waste Plant 4. Engineered SLF Site	2100  500  0	500	200	600

2.	Proposed site on Takhand Land near SLF Okhla Phase-I. 1. Compost Plant. 2. Engineered land fill for rejects, silt and misc. waste	500			150 (Rejects)+ (Misc)
3.	Ghummanhera site. 1. C&D Waste Plant.		1000		
4.	Near Village Bakar Wala. i. C&D Waste Plant.		500		
5.	Proposed Site near village Ghitorni.		500		
6.	Site near Jounapur Pahari on Mandi road		1000		
7.	SLF Bhalswa (North DMC)			100	
8.	Already existing Waste to Energy Plant At Okhla	1200			
9.	Already existing Compost Plant At Okhla	200			
GRAND TOTAL		4500	3500	300	750

#### WASTE TO ENERGY PLANT:-

On account of scarce availability of land, there is a need to set up Waste to Energy Plant which can consume large amounts of garbage as well as generates electricity also. The only Plant at Okhla consumes approx. 2000 MT of garbage on a daily basis which amounts to approx. 25% of total waste generated in the city. Out of 2000 MT of garbage about 1300 MT of garbage per day is received at

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Waste to Energy Plant, Okhla from SDMC. In addition the setting up of more Plants would be able to consume large amounts of garbage.

i) SDMC is evaluating the possibility of setting up another Plant somewhere in Najafgarh area which can take care of the garbage generated in the two zones namely Najafgarh and West Zones of SDMC. Setting up of such a project in Najafgarh Zone area would do away with large distances that have to be covered by the trucks such as the lead from Najafgarh, West Zones to landfill site at Okhla or the Sanitary Landfill site at Bhalswa. The to and fro movement of trucks results in air pollution which can very well be avoided in case the Waste to Energy Plant is set up in Najafgarh Zone. Setting up of the Plant would be subject to necessary clearances from the concerned departments involved such as Airport Authority, Central Pollution Control Board etc.

ii) SDMC also proposes to establish additional Waste to Energy Plant on the proposed site adjoining existing SLF site Okhla Phase-I on the land of CONCOR/CCI/Railway/DDA.

#### **DISPOSAL OF REJECT/ RESIDUE:-**

During the course of incineration of garbage at the Waste to Energy Plant, the residue which amounts to approx. 30-40% of the total garbage consumed is required to be dumped on secured sanitary landfill site. For the present the inerts generated at the Waste to Energy Plant, Okhla are dumped at the SLF, Okhla. The existing landfill site at Okhla is approx. 150' high as stated in para above.



The requirement of land for disposal of Residue/ reject is estimated as follows

Year	2015	2024
Waste Generation (MT Per day)	2700	4500
Quantity processed (MT Per day)	1450	4500
Remaining (Unprocessed) (MT Per day)	1250	0
Residue (%) from processed	40%	30%
Quantum of Residue (MT Per day)	580	1350
Total to be disposed at Land Fill Sites (MT Per day)	1250	1350

For disposal of Residue and MSW the following land /sites are proposed:-

- i. Engineered Land-fill site at proposed site extension of existing SLF site Okhla Phase-I on CONCOR/CCI land. (Capacity 780 MTD);
- ii. Engineered Land-fill site at proposed site on Takhand Land near SLF Okhla Phase-I. (Capacity 150 MTD + MISC).
- iii. Engineered Land-fill site at proposed site near jouna pur pahari on Mandi road for rejects, silt and misc. waste and for C&D Waste. (Capacity 1000 MTD + MISC).

#### STATUS OF AVAILABILITY OF LAND FOR DEVELOPMENT OF VARIOUS FACILITIES FOR SOLID WASTE MANAGEMENT

To implement the aforesaid Action Plan, the requirement of the land is absolutely essential for SDMC. While the SDMC is trying its

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utmost to get the lands allotted from DDA/GNCTD not much progress has been made. The status as on date is as under:-

i. RULE POSITION:-

As per rules it is the responsibility of DDA to select / identify, acquire the land for land fill sites and to take clearance from Delhi Pollution Control Committee, Central Pollution Control Board, Ridge Management Board, Environment Department and Central Empowered Committee, appointed by the Apex Court etc for disposal/ processing of MSW and handover the same to SDMC free of cost and free from all encumbrances.

ii. ORDERS OF THE HON'BLE SUPREME COURT OF INDIA

In the Writ Petition CWP No. 888/1996 in the matter of Almitra H. Patel and Anr Vs U.O.I. & others; relating to Solid Waste Management in India, the Hon'ble Supreme Court of India in its decision dated 15.2.2000 gave directions to this effect that:

*"We direct that sites for landfills will be identified bearing in mind the requirement of Delhi for the next twenty years within a period of four weeks from today by the exercise jointly conducted by Union of India through the Ministry of Urban Development, Government of National Capital Territory of Delhi, Commissioner, MCD, and Chairman, NDMC and other heads of statutory authorities like the DDA etc. These sites will be identified keeping in mind the environmental considerations and in identifying the same Central Pollution Control Board's advice will be taken into consideration. The sites so identified shall be handed over to the MCD and or NDMC within two weeks of the identification, free from all encumbrances and without MCD or the NDMC having to make any payment in respect thereof.*

*We further direct Union of India through Ministry of Urban Development, Government of National Capital Territory of Delhi, Commissioner, MCD, Chairman, NDMC and other statutory authorities like DDA etc. to identify and make available to the MCD and NDMC within four weeks from today sites for setting up compost plants. Initially considering the extent of solid waste, which is required to be treated by*

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*compost plants, the number of sites, which should be made available, will be eight. Such sites shall be handed over to the MCD/NDMC free of cost and free from all encumbrances within two weeks of identification. MCD and NDMC shall thereupon take appropriate steps to have the compost plants/processing plants established or caused to be established and to be in operation by 30th September, 2000"*

#### LANDS ALLOTTED BY DDA/GNCTD

In compliance of the aforesaid directions, the following lands were allotted/handed over by the Delhi Development Commissioner and Delhi Development Authority to erstwhile MCD for development into SLF sites and for setting up Compost/Processing plants against the requirement of 1500 acres land for the next 20 years, out of which the requirement of land of SDMC is about 500 Acres. Status of land is as under:-

Sl. No.	Name of site	Area (In Acre)	Present status comments
1.	On Jaitput/Tajpur road behind Badarpur Thermal Power House in Central Zone.	24.60	This site had been handed over by Development Commissioner, Delhi to erstwhile MCD but could not be put to use for SLF, because of high density of population in the vicinity. Now this site is to be utilized for disposal/ processing of C&D Waste/ Malba/ Inert/ Silt/ Ash. ✓
2.	Near village Ghumman Hera, in Najafgarh Zone.	140.00	This site has been handed over by Development Commissioner, Delhi to erstwhile MCD, but this site falls in the Air Funnel and as such cannot be used for disposal of MSW. However this site is proposed to be utilized for setting up of plant for processing/ disposal/ recycling of Construction and Demolition (C&D) Waste /Malba. ✓
3.	Near Village Bakkarwala in	10.00	This site has been handed over by DDA to erstwhile MCD but the site

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	West Zone		cannot be put to use for processing of MSW because of high density of human habitation in the vicinity. However this site is proposed to be utilized for processing/recycling of C&D Waste/Malba.
Total		174.60	Effective land made available to SDMC for processing/ disposal of MSW is NIL against the requirement of land 500 acres.

In addition to the above the following two sites have been allotted/handed over to South Delhi Municipal Corporation (SDMC) by DDA on 16.6.2014. Details of the same are as under:-

S.No.	Location of site	Approx. area (in acres)	Purpose
1	Site at Location-A, Sector-24 Dwarka.	5.0	It is proposed that this site will be used for setting up of Zero Waste Management.
2.	Site at Location-B, Sector-29, Dwarka	5.0	It is proposed that this site will be used for setting up plants for processing/ disposal/re-cycle of Horticulture waste, Plastic Waste and Crematorium for small animals.

**TRANSFER OF ISSUE OF ALLOTMENT OF LAND FROM HON'BLE SUPREME COURT TO HON'BLE DELHI HIGH COURT.**

i In the matter of Almitra H. Patel and Anr Vs U.O.I. & others W. P. (C) No. 888 of 1996, the issue pertaining to allotment of land for SLF sites for Municipal Corporation of Delhi (MCD) was transferred to Hon'ble High Court of Delhi by the Hon'ble Supreme Court of India on

19.7.2010 with the request to expeditiously hear and dispose of the matter preferably within three months.

In spite of the fact that the Committee constituted under the Chairmanship of Secy.(UD), GNCTD in the matter of Almitra H. Patel and anr. Vs UOI and others WPC No. 5236 of 2010, identified 31 sites spread all over Delhi to set up various Solid Waste Management facilities. Out of these total 18 sites fall in areas catered to by the SDMC, 08 by North Delhi Municipal Corporation and 05 by EDMC. List of these 31 sites is annexed herewith as Annexure 'A' (Colly).

In compliance of the orders of the Hon'ble Supreme Court of India dated 19.07.2010 and the directions of the Hon'ble Delhi High Court dated 19.11.2013 persistent efforts have been made in requesting the DDA and the GNCTD for allotment of suitable parcels of land for setting up of the facilities required for scientific disposal of the Municipal Solid Waste. In case, the requisite lands are handed over to the SDMC.

Out of 18 sites with SDMC, presently the two sites as shown in the TABLE NO.1 and two sites as shown in the TABLE NO.-2 given below are best suited for processing/disposal of Municipal Solid Waste and for processing/disposal of Construction and Demolition (C&D) Waste/ inert/ Silt/ Ash under the jurisdiction of South Delhi Municipal Corporation. The details of the same are as under:-

TABLE NO.-1

S. No	Name of Proposed land/sites	Approx. area of land (in acres)	Ownership of land	Purpose	Remarks
1.	Proposed site extension of existing SLF site Okhla Phase-I on the land of CCI/CONCOR / DDA	(About 14.2+18.15+9 7.0) = 129.35 acres 97.2 ?? w/w/w	DDA	Integrated Waste Management facilities	DDA should hand over the site to SDMC.

2.	Proposed site on Tehkhand land near SLF Okhla Ph-I	About 36.0 acres	DDA	Integrated Waste Management facilities	DDA should hand over the site to SDMC.
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It is also submitted that another important aspect which goes in favor, to continue with the present site is that to open any new Sanitary Land Fill site it is seen that there had been public resistance and in most of the cases new sites could not be started. In the present case since there exists a Sanitary Land Fill site, its extension in the area occupied by DDA may not invite much public resistance and as such the present site could be extended.

In this regard, an appropriate policy decision is required to be taken to shift Inland Container Depot (ICD) from Okhla/Tuglakabad to an alternate location, some of the possible locations in NCR can be Dadri, Manesar, Bawal

Brief note on these sites is annexed herewith as annexure-"B" (colly):-

**TABLE NO.-2**

S. No	Name of Site	Approx. Area of land (In Acres)	Ownership of land	Purpose	Jurisdiction of Corporation	Remarks
1.	Site near village Ghitorni	184	Forest Deptt.	Processing/ disposal of C&D Waste/ Malba/ Inert Material/ Silt/Ash.	SDMC	GNCTD should hand over the site to SDMC.
2.	Site near Jounapur Pahari on Mandi road	100	Gaon Sabha	Processing/ disposal of C&D Waste/ Malba/ Inert Material / Silt/Ash.	SDMC	GNCTD should hand over the site to SDMC

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In view of above, it is humbly requested that the Hon'ble Court may kindly be directed the DDA and GNCTD to allot/hand-over the above two sites as shown in TABLE NO.1 and two sites shown in TABLE NO.-2 for integrated Waste Management facilities and construction and demolition (C&D) Waste/ inert material/ Silt/ Ash respectively to South Delhi Municipal Corporation in first instance on urgent basis, as there is no land available for these proposes.

Executive Engineer(SLF)  
Okhla, SDMC

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## Annexure-'A' (Colly)

Sub: - BEFORE THE HON'BLE HIGH COURT FOR DELHI TITLED  
AS ALMITRA H. PATEL AND ANR. V/S UNION OF INDIA &  
OTHERS, CWP NO. 5236/2010.

S. No	Name of Site	Approx. Area of land (In Acres)	Ownership of land	Purpose	Jurisdiction of Corporation	Remarks
1.	Site near village Ghitorni	184	Forest Deptt.	Processing/di sposal of inert material/ C&D Waste	SDMC	GNCTD should hand over the site to SDMC.
2.	Site near village Mandi/ Jounapur	59	Forest Deptt.	Processing/di sposal of inert material/ C&D Waste	SDMC	GNCTD should hand over the site to SDMC
3.	Site near Jounapur Pahari on Mandi road	100	Gaon Sabha	Processing/di sposal of inert material/ C&D Waste.	SDMC	GNCTD should hand over the site to SDMC
4.	Bhatti Mines	2500	Forest Deptt.	Processing/di sposal of MSW/Inert Material	SDMC	About 500 acres of land be allotted/handed over to SDMC by GNCTD. X
5.	Site extension of existing SLF site Okhla Ph-I on the land of CONCOR and CCI.	129.35	CONCOR/ Northern Railway	Most suitable for Integrated Waste Processing/ Disposal Facilities	SDMC	DDA should hand over the land to SDMC.




6.	On Takhand land near SLF Okhla Ph-I	36	DDA	Most suitable for Integrated Waste Processing/ Disposal Facilities	SDMC	DDA should hand over the land to SDMC.
7.	Site near Metro Station (under construction) opposite Kalandi Kunj	32	DDA	Processing /disposal of C&D Waste/inter material	SDMC	DDA should hand over the land to SDMC.
8.	Near Chatter Pur Phari	05	DDA	Processing/di sposal of C&D Waste/Inert material	SDMC	DDA should hand over the land to SDMC.
9	Site near resettlement colony Madan Pur Khadar	200	Private	Integrated Waste Processing/ Disposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
10.	Site near Sewage Treatment Plant in Sector-16-D, Dwarka Phase-II.	10	DDA	Setting up of Compost Plant.	SDMC	Pending for future
11.	Site near IGNOU Back of Maidan Garhai	20	DDA	Decentralizati on of MSW Management.	SDMC	Pending for future
12.	Site near Rang-Puri	20	Forest Depart ment	Decentralizati on of MSW Management	SDMC	Pending for future
13.	Site between Chawala Village and Najafgarh	10	DDA	Decentralizati on of MSW Management.	SDMC	Pending for future

	Drain					
14.	Site near village Neelwal	Chunk Land	Private	Integrated Waste Processing/Di sposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
15.	Site near village Hiran Kudna	Chunk Land	Private	Integrated Waste Processing/Di sposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
16.	Site near village Nilothi	Chunk Land	Private	Integrated Waste Processing/Di sposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
17.	Site near village Bakkarwala	Chunk Land	Private	Integrated Waste Processing/Di sposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
18.	Site near village Saffidpur Ranholla	Chunk Land	Private	Integrated Waste Processing/Di sposal Facilities	SDMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to SDMC.
19.	Site near Sultanpur Dabas (Bawana)	95	Gaon Sabha	Integrated Waste Processing/ Disposal Facilities	North DMC	GNCTD should hand over the land to North DMC.
20.	Site near	145	Private	Integrated Waste	North DMC	Land be acquired by

	Puthkurd			Processing/ Disposal Facilities		DDA/GNCTD and the same be handed over to North DMC.
21.	Site behind APMC compost Plant on GT Karnal Road and near village Hamirpur	27.5	Private	Processing/ Disposal of MSW	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.
22.	Site on the Main Bhaktawar pur road near Palla Village	42.5	Private	Processing/ Disposal of C&D Waste	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.
23.	Site located near village Palla and Haryana Border	62.5	Private	Processing/ Disposal of MSW	North DMC	Land be acquired by DDA/GNCTD and the same be handed over to North DMC.
24.	Site near village Sadpur and Nizampur	Chunk Land	Private	Integrated Waste Processing/ Disposal Facilities	North DMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to North DMC.
25.	Site near PVC Godown on Tikri Road near village Mundka	Chunk Land	Private	Integrated Waste Processing/ Disposal Facilities	North DMC	About 100 acres of land be acquired by DDA/GNCTD and the same be handed over to North DMC.
26.	Site near village Bajitpur near Auchandi Road	08	Gaon Sabha	Processing of C&D Waste	North DMC	GNCTD should hand over the land to North DMC.
27.	Near Shastri Park (2)	02	DDA	Processing of	EDMC	This land has been handed

	Acres)			C&D Waste		over to EDMC by DDA.
28.	In front of DTC Bus Depot Yamuna Vihar	10	DDA	Solid Waste Management facility	EDMC	DDA should hand over the land to EDMC.
29.	Site near Delhi Police Training Complex, Sonia Vihar (large chunk of land)	50	DDA	Integrated Waste Processing/ Disposal Facilities	EDMC	DDA should hand over the land to EDMC.
30.	Near Collage on Wazirabad Road (a large chunk of land)	10	DDA	Solid Waste Management facility	EDMC	DDA should hand over the land to EDMC.
31.	Site near Khichari Pur	2.5	DDA	Solid Waste Management facility	EDMC	DDA should hand over the land to EDMC.

  
Ex. Engineer (SLF)  
S DMC

## Annexure-"B"(colly)

## SUB:-BRIEF NOTE ON TWO SITES.

## 1. SITE EXTENSION OF EXISTING SLF SITE OKHLA PHASE-I ON THE LAND OF CCI/ CONCOR/NORTHERN RAILWAY.

This site is located adjoining existing SLF site Okhla Phase-I, SDMC on the land of Cement Corporation of India Ltd. (CCI) and Container Corporation of India (CONCOR)/Northern Railway having area of about 129.35 acres on Maa Anand Mai Road.

The present site of CCI/CONCOR/Northern Railway can be patent site to continue use as Sanitary Land Fill site and for setting up of plant for processing/disposal of MSW in this area and as such our endeavor should be get the possession of entire 129.35 acres of land from CCI/CONCOR/Northern Railway.

Another important aspect which goes in favor to continue with the present site is that to open any new Sanitary Land Fill site it is seen that there had been public resistance and in most of the cases new sites could not be started. In the present case since there exists a Sanitary Land Fill site, its extension in the area occupied by CCI/CONCOR/Northern Railway may not invite much public resistance and as such the present site could be more viable.

It is also pertinent to mention here that it is observed that access of CONCOR is congested and most of the time there is traffic jam on the Maa Anand Mai Road due to plying of Containers Vehicles, resulting inconvenience not only to them, but also to the public at large.

Even from planning angle it is advisable that the CONCOR activities be setup out of the city/congested area, hence the CONCOR activities and its operation can be shifted to any other locations preferably in the NCR Borders/Delhi- Bombay Freight Corridor. This more will defiantly avoid movement of Heavy Containers on congested road and will also check the pollution level within the city. Besides this will also be for the benefits of public at large/local residents residing within the city.

It is also pertinent mention to here that the Secretary (Environment) Cum Chairman DPCC, GNCTD has sent a letter to the Chairman & Managing Director Container Corporation of India Ltd. vide his D. O. No. F10(176)/Env./ 2014/12410-12415 dated

1.8.2014 wherein it was mentioned that High Powered Committee under Chief Secretary is looking at various steps to reduce air pollution levels in Delhi. During one of the meetings it was informed that Hon'ble Supreme Court has passed orders to stop non destined traffic from entering Delhi. Traffic Police has also reported that location of ICD at Tuglakabad is promoting such traffic by movement of containers. It was also requested that necessary steps be taken for shifting of Inland container Depots (ICDs) from Okhla/ Tuglakabad and Ghazipur to NCR region and an action taken report may kindly be sent to his Department.

It is also pointed out that Additional Secretary to Hon'ble LG informed that minutes of the meeting under the Chairmanship of Hon'ble Lt. Governor on 1.8.2014 at 11:30 AM at Raj Niwas to discuss on the suggestions of made by High Power Committee on Air & Water Pollution through letter no. U.O. No. 20(3)/14-RN/251/20248-65 dated 6.8.2014.

*"Hon'ble Lt. Governor advised to encompass rain water harvesting and the imposition of a congestion tax on vehicles in crowded areas, into Committee's suggestions. Hon'ble Lt. Governor instructed PWD to explore the feasibility of providing U-turn and underpass near borders to turn back the non-d destined vehicles trying to enter the city and the Committee to examine the Law to force Container Corporation of India Ltd. (CONCOR) to shift the Inland Container Depots outside Delhi".*

It is also pertinent to mention that in the matter of Vardhaman Kaushik Vs. Union of India & Ors, O.A. No. 21 of 2014, the Hon'ble National Green Tribunal, Principal Bench, New Delhi vide its order dated 4.12.2014 and 19.1.2015 had issued various Directions, Vehicular Pollution and General directions. Out of General directions the direction no. 25 pertaining to the NCR Delhi, DDA, Railway Boards and SDMC and the same is reproduced below:-

*i ".... The NCR Delhi, DDA and Railway Boards shall consider shifting and / or bifurcating of three sites meant for Cargo containers i.e. Tughlakabad, Okhla and area close to Anand Vihar, where heavy containers depot have been located, 10 or 12 wheeler heavy trailers come to these areas and thus, cause serious traffic jams obstructing free flow of traffic, besides directly causing pollution I the air, If these*

*sites are shifted or bifurcated at least in the area in the outskirts of NCR in consultation with the other States will help greatly in improving the air quality of NCR Delhi..."*

ii.....No Report has been submitted with regard to our directions relating to Tughlakabad, Okhla and area closed to Anand Vihar. Compliance report in this behalf has also not been submitted.

DDA is directed to file its report positively before the next date of hearing . . . . ."

Let Notice be issued to the Northern Railway to be present on the next date of hearing.

The proposal can be implemented if CCI/CONCOR/Northern Railway can be persuaded to part with the land in exchange of any other suitable piece of land, for which DDA can be requested.

## 2. SITE ON TEKHAND LAND NEAR SLF OKHLA PHASE-I.

This site is located near existing SLF site Okhla Phase-I on Maa Anand Mai Road having area about 36 acres. The present site on Tekhand Land can be patent site to continue use as Sanitary Land Fill site and for setting up of plant for processing/disposal of MSW in this area and as such our endeavor should be get the possession of entire 36 acres of land from DDA.

Another important aspect which goes in favor to continue with the present site is that to open any new Sanitary Land Fill site it is seen that there had been public resistance and in most of the cases new sites could not be started. In the present case since there exists a Sanitary Land Fill site, its extension in the area occupied by DDA may not invite much public resistance and as such the present site could be extended.

The plot in question measuring 14.3 hect. at Tehkhand was auctioned by DDA for construction of 3500 EWS houses and 750 houses under higher income category under Public Private Partnership model to M/s. Kenneth Builders & Developers Ltd. and the physical possession of the same was handed over to them in the year 2006. The developer could not take up the construction work due to not getting all the necessary clearances from the concerned departments. As on date, the SLF no. 35374/2010 is pending before Hon'ble Supreme Court of India.

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The above said scheme now has been closed. The matter of payment of compensation remains which can be decided by the court and irrespective of which the land can be utilized for public facilities as stated above for which DDA can take appropriate steps before Hon'ble Court if require.



Ex. Engineer (SLF)  
Okhla SDMC





East Delhi Municipal Corporation  
Office of the Superintending Engineer (HQ)  
1<sup>st</sup> Floor, Plot No. 419, Udyog Sadan,  
Patparganj Industrial Area,  
Delhi-110092

Anneaux C

9905



No. SE/EMS/2015-16/D-47

Dated: 22.07.2015

To,

The Principal Secretary  
Urban Development, Govt. of Delhi  
9<sup>th</sup> Level, Delhi Secretariat  
New Delhi

Subject:- Action Plan for Management and Handling of Municipal Solid Waste Using Modern Technologies in East Delhi Municipal Corporation (EDMC) for submission before the Hon'ble National Green Tribunal at Delhi in the matter of Almitra. H. Patel & Anr. Vs Union of India and Ors. O.A. No. 199 of 2014.

Please find enclosed herewith Action Plan for Management and Handling of Municipal Solid Waste Using Modern Technologies in East Delhi Municipal Corporation (EDMC) for submission before the Hon'ble National Green Tribunal at Delhi in the matter of Almitra. H. Patel & Anr. Vs Union of India and Ors. O.A. No. 199 of 2014.

Encl As above

*Sd*  
Superintending Engineer (EMS)

Copy to:-

1. Member Secretary, Delhi Pollution Control Committee (DPCC), Department of Environmental, Govt. of NCT of Delhi, 4<sup>th</sup> Floor, ISBT Building, Kashmiri Gate, Delhi-110006
2. CE (EMS)
3. O/c

*Over*  
Superintending Engineer (EMS)

Subject:- Almitra H. Patel & Anr Vs UOI & Ors O.A. No. 199/2014 (NGT Case).

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## Action Plan for Municipal Solid Waste.

### CHAPTER - 1: INTRODUCTION

The task of managing Municipal Solid Waste (MSW) collection, transfer and transportation in EDMC as per MSW (M&H) rules 2000, is proving to be cumbersome for EDMC due to its densely populated and a lack of civic sense among the residents.

The Solid Waste Management comprises of collection, transportation and disposal of Municipal Solid Waste. Safai Karamcharies deployed by the EDMC do the sweeping, desilting of small drains (4' or below in Width & Depth) and collect the garbage/silt from various roads, side-lanes etc. and bring the same to the municipal receptacles. Garbage from dhalao is loaded to tipper truck through a loader. From these dustbins/dhalaos the garbage is transported to the SLF site situated at Ghazipur. The garbage is transported by tipper trucks from different parts, and the same is dumped and leveled at the SLF site. In addition EDMC also does construction and cleaning of community toilets complexes and public urinals. Street sweeping work is carried out manually and the swept material is deposited in dhalao located at different places under jurisdiction of EDMC.

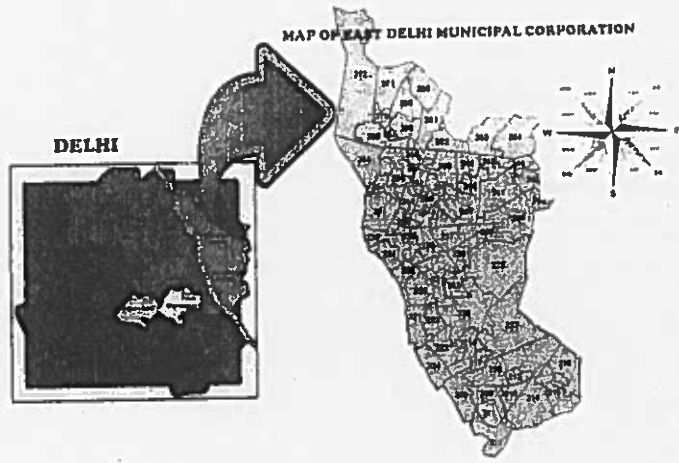
#### OBJECTIVE

- The Ideal objective is to achieve 100% segregations at household level and zero garbage at ward level
- Decentralize Solid Waste Management
- Reduce Transportation Cost & Environmental Degradation
- Avoid dumping of Garbage at Landfills to reduce GHG Emission
- Minimize Requirement of Land for waste handling

### CHAPTER - 2: CITY PROFILE

#### 2.1 General Profile (including city map):

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EDMC is an eastern suburb of Delhi. It forms a part of both East and Northeast Delhi. It is divided in two Zones, namely, Shahdara North & Shahdara South. Shahdara North has a total area of approx. 46.06 sq. km with a population around 17 lacs (1.7 million), whereas, Shahdara South has a total area of 59.92 sq. km. with the population around 22 lacs (2.2 million). The population density is over 37000 per sq.km.

2.2 Historical Profile: EDMC bounded by river Yamuna on one side and UP on other side. Part of the city is very old and haphazardly developed. This is thickly populated area having narrow lanes etc.

2.3 Tourist, religious or any other specific Profile of the city:

**Akshardam Temple located near Noida Crossing :-** The Swaminarayan Akshardham Temple, a 100 acre complex of Indian Art, culture and heritage is made of pink sandstone and white marble. Entry to the temple is free, but a ticket is charged if one wants to visit the exhibition halls and take the boat ride.

**Commonwealth Games Village:-** The 2010 Commonwealth Games Village was the athletes' residence for the 2010 Commonwealth Games in New Delhi. The village is spread over an area of 63.5 hectares

**Yamuna Sport Complex :-** The Yamuna Sports Complex is a sports complex located in New Delhi, India. Inaugurated in 1999, it hosts table tennis, Rugby 7's, Boxing, Wrestling. It is owned by the Delhi Development Authority. It was a venue for the 2010 Commonwealth Games

**Sanjay Lake:-** Long before the trans yamuna (now known as East Delhi) area, thus called because it lied across the Yamuna River from the main city of New Delhi, was colonized by the government, this was natural low-lying area, land depression where rainwater collected, which was also fed by excess run-off from a cut in the Hindon River.

The area had a number of villages like Patparganj in the floodplains of Yamuna and vast agricultural lands.

Initially the lake spread over 89 acres and together with the surrounding park it covered an area of 178 acres. However it was greatly shrunk after DDA started developing the area for its housing colonies, as colonies like Mayur Vihar, Indraprasta Extension (I.P. Extn.), and Patparganj DDA colonies started coming up in the 1980s and its catchment area was largely built over. Similarly, when National Highway 24 (NH 24) was built to connect the national capital to Capital of Uttar Pradesh state, Lucknow which cut through the lake, and the Nizamuddin bridge was built over the Yamuna and its northern portion was lost and lake was reduced to present 69 hectares (170 acres). In the following decades, as land pressure increased in East Delhi, the lake further shrunk due to unauthorised construction, encroachment and sewage from near by slums.

#### 2.4 Area and Population:

S.	Organisation	Area (in Sq Km)	Population (in Lacs)	Population Density (No.Per sq. km.)
1	NCT DELHI	1484.46	168[Approx]	11317
2	MCD	1399.26 (94%)	161.2 (96%)	11520
3	EDMC	105.98 (7%)	40.0 (24%)	37743
4	SDMC	656.91 (44%)	59.2 (35%)	9012
5	NDMC	636.37 (43%)	62.0 (37%)	9743

Area of the city/ town (under the jurisdiction of the local body) in Sq. Km.

#### Details of Population

Census Year	Population			Projected population
	1981	1991	2001	2011
Population	10.5 Lacs	16.6 Lacs	26.00 Lacs	40.00 Lacs
Decadal growth	-	6.1 Lacs	9.4 Lacs	14.00 Lacs