

DELHI STATE INDUSTRIAL & INFRASTRUCTURE DEVELOPMENT CORPN. LTD.
PLOT NO. 74A, RING ROAD, LAJPAT NAGAR-III, NEW DELHI-24
OFFICE OF THE EXECUTIVE ENGINEER (CD-16)

Name of Work: Development of Treatment, Storage and Disposal Facility for Hazardous waste on BOT basis at Bawana in Delhi.

Subject: Pre – Bid queries and clarifications on the RFP for Development of Treatment, Storage and Disposal Facility (TSDF) for Hazardous Waste on BOT basis at Bawana in Delhi.

Tender ID: 2017_DSIDC_141733_1

RFP No.: 2/17-18

Clarifications to the queries raised by the bidder in the pre-bid conference held on 22.12.2017

SN	RFP Reference no., Section Nos.	Content of RFP requiring clarification	Queries/ Points requiring Clarification/ proposed changes	DSIIDC Response to the queries
(A)	M/s Bharuch Enviro Infrastructure Limited			
1.	Last date for submission of Bid: 08.01.2018	Last date for submission of Bid: 08.01.2018	The design, obtaining quote from specialist vendors for incineration plant and detailed costing of various components of the facility is very complex and require considerable time. Hence, we request you to kindly extend the bid submission deadline by 45 days from 08.01.2017, in order to enable us to submit comprehensive and competitive bid for this Project works.	Last date for submission of Bid has been extended and now the last date & time for submission of Proposal shall be 29.01.2018 upto 15.00 Hrs. Date & time of opening of Technical Bid shall be 29.01.2018 at 15.30 Hrs.
2.	Bid Security	Rs. 30 Lakhs to be paid through online mode (RTGS)	We request authority to make a provision to accept Bank Guarantee instead of online payment for Bid security.	No change in clause and as per RFP document only.

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3.	Clause 1.2.1 (Pg.3)	Carrying out collection, segregation..... its amendments thereof.	<p>1) We understand that Concessionaire is required to charge/collect quoted tipping fees directly from the Waste generator. Please confirm.</p> <p>2) If yes, will DSI IDC assure payment in timely manner by such waste generators?</p>	<p>Yes, the concessionaire shall charge/collect quoted tipping fees directly from the waste generator.</p> <p>The collection of payment from waste generators is the responsibility of the concessionaire. DSI IDC has no role in collection of payment from waste generators.</p>
4.	Clause 2.10	Documents to be uploaded	Since it is e-tendering, we understand that Bidder is not required to submit Original photocopies of the any uploaded bid documents until authority instruct L-1 bidder to submit the same. Please confirm.	No submission of any hard copy is envisaged at this stage; All bid documents shall only be uploaded.
5.	Clause 3.3.2 and Clause 3.3.3	Technical Qualification requirement and Financial qualification requirement	<p>1. Please confirm if we can consider qualification of associate/sister (group) companies.</p> <p>2. We, BEIL/BRCPL(a fully owned company of BEIL),have our own CHWT SDF (we have vast experience in design,</p>	<p>Associate company's qualifications can be considered, provided the associate company is part of the consortium and complies with the qualification requirements.</p> <p>Please refer clause no-3.3.2.2. under technical qualification requirement.</p> <p>Certificate from Pollution Control Board indicating capacity and other operational details required as per clause 3.3.2. of the RFP document.</p>

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			construction and O&M of TSDF) at Ankleshwar, operated by us since 1998. Since, this is our own facility, we will be able to submit certificate/consent from GPCB (Gujarat Pollution Control Board) and experience certificate from CA (Chartered accountant) as well as certificate from IIT-Delhi for approval of design and construction of TSDF works executed by us. Please confirm if you will consider the same.	
6.	Appendix XV Project Information Memorandum Clause 1.1.2	Waste Quantification	We request authority to provide quantity of HW generated at numbers of industry and CETP in the cluster of DSIIDC. This will enable us to determine transportation cost for HW.	List of industrial estates and CETP along with hazardous Waste generation has been provided as Appendix 1
7.	Appendix XV Project Information Memorandum Clause 1.1.2	Waste Quantification Table	In the table, Total qty of HW generated in Delhi is 4198 MT given. Kindly provide qty of waste assured by DSIIDC.	Waste quantity data has been provided based on records from DPCC. Details provided in Appendix 1. However, bidders are encouraged to conduct their own due diligence.
8.	Appendix XV Project Information Memorandum Annexure - 1	Topographic survey map of the site and Indicative site layout	Kindly provide Topographic survey map and indicative site layout in Autocad format. This will enable the bidders to work out the quantity related to earthworks and costs associated with thereof.	Topographic survey map in Autocad format has been provided. Bidders are encouraged to make their own site layout plan as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

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9.	Appendix XV Project Information Memorandum Article 5	Clause 5.1 Performance Security of Rs. 1 Cr Valid throughout concession period	<ol style="list-style-type: none"> 1. We request you to reduce the amount of Performance bond. 2. Besides, we request to keep performance security till commissioning and successful operation of the project upto 6 months from the date of commissioning, as concessionaire is required to invest his monies for 50% of the capital cost in this project. 3. Performance Security of Rs. 1 Cr Valid upto successful operation of the plant for 6 months from the date of commissioning. 	No change in clause and as per RFP document only.
10.	Appendix XV Project Information Memorandum Article 7	Grant for capital cost and Milestone table for release of grant for capital cost	<ol style="list-style-type: none"> 1. We request you to provide grant more than 50% of capital cost since huge investment is required. 2. Milestone for release of payment is required to be amended since huge investment (50% of capital cost) from bidder side is involved. 3. We request to amend the stages for release of payment as follows. <ol style="list-style-type: none"> a. Stage 1 – 60% b. Stage 2 – 20% c. Stage 3 – 12.5% d. Stage 4 – 5% e. Stage 5 – 2.5% 	No change in clause and as per RFP document only.
(B)	M/s Saurashtra Enviro Projects Pvt. Ltd.			
11.			We handling TSDf facility on BOO (Built, Own and Operate basis) so authorization from Pollution Control Board need to be	Certificate from Pollution Control Board indicating capacity and other operational details required

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			consider as qualification in place of work order / work completion.	as per clause 3.3.2. of the RFP document.
12.			Kindly provide Detail Topographical Survey, HFL Level of proposed facility	Topographic survey map in Autocad format has been provided.
13.			Kindly provide source of water available or would be available for facility	Bidder has to conduct their own due diligence.
14.			Kindly provide source of electricity point available or would be available for facility	Bidder has to conduct their own due diligence.
15.			Kindly provide is their any rules of vehicle movement timing in the Delhi state for Hazardous Waste Transportation from industries to facility.	Bidder to conduct their own due diligence.
16.			Kindly provide current available clearance/status of existing Bawana Industrial Area to understand applicability of Public Hearing for proposed facility.	Necessary clearances shall be obtained by the successful bidder on their own.
17.			As per the clause : Project Information Memorandum 1.3 Transportation of HW The transportation distance to be covered by hazardous waste range from 15 km to 45 km. District wise transportation rate will be fixed for transportation of hazardous waste to TSDF at Bawana. We request you to consider rates as per tonne per KM by fixing for all transformation charges	The tipping fee quoted by the bidder in the financial format should include transportation cost for collection from industries within 20 Km from TSDF. For collection & transportation of hazardous waste beyond 20 km, additional cost will be calculated using following formula:

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				<p style="text-align: center;"><u>D*2*P*X</u></p> <p style="text-align: center;">A*C</p> <p>Where:</p> <p>D: Additional distance travelled by the vehicle beyond 20 km</p> <p>P: Price of Diesel will be the price on first day of every month</p> <p>X: Quantity of Hazardous waste collected & transported from individual industry</p> <p>A: Distance travelled by a vehicle (Km) in one litre</p> <p>C: Carrying capacity of the vehicle</p>
18.			We request you to consider 9-12 months for all clearances instead of 6 months of award of work	No change in clause and as per RFP document only.
19.			Kindly provide any CETP available nearby proposed facility. Can we sent generated	Bidder to conduct their own due diligence.

SN	RFP Reference no., Section Nos.	Content of RFP requiring clarification	Queries/ Points requiring Clarification/ proposed changes	DSIIDC Response to the queries
			waste water to nearby CETP for process after achieving level of norms of CETP.	
20.			Please guide how Pollution Control Board will be expects to reissued authorization and consider a proposed TSDF facility for all applicable members for disposal of Hazardous Waste.	As per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, it is mandatory for the generator of the hazardous waste to dispose the hazardous waste to an authorized disposal facility.
21.			If proposed facility of DSIIDC not fulfill a required Hazardous waste rules 2016 / MoEF&CC / PCB clause and not granted EC, so what would be line of action in such event.	The Government of Delhi has provided the site for construction of TSDF.
22.			If any subsidiary available for such a project from different state departments than who will have the ownership of this subsidiary.	Question not clear
23.			We request you to provide grant extension on bid submission deadlines upto 45 days (i.e. 23.02.2018)	Last date for submission of Bid has been extended and now the last date & time for submission of Proposal shall be 29.01.2018 upto 15.00 Hrs. Date & time of opening of Technical Bid shall be 29.01.2018 at 15.30 Hrs.
24.			Kindly provide Geotechnical site investigation report of proposed facility	Bidder to conduct their own due diligence
(C)	M/s SMS Ltd.			
25.	Bid Submission Page No i	Bid submission date 08.01.2018 (Up to 15:00 hrs)	As per Tender documents Bidder should conduct its own investigations & analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, Statements	Last date for submission of Bid has been extended and now the last date & time for submission of Proposal shall be 29.01.2018 upto 15.00 Hrs. Date & time of

SN	RFP Reference no., Section Nos.	Content of RFP requiring clarification	Queries/ Points requiring Clarification/ proposed changes	DSIIDC Response to the queries
			and information related to quantum of Hazardous Waste contained in this RFP/PIM/CA. Considering the Scope of Work, the provided time for working is not sufficient and required minimum 45 days for working on this project, hence request to consider our request and provide extension of 45 days after pre bid reply.	opening of Technical Bid shall be 29.01.2018 at 15.30 Hrs.
26.	Bid Security Page no i. And clause 2.1.5 on page no 6	Rs. 30,00,000/- (Rupees Thirty Lakh only) The Bidder shall submit as part of its Bid, a Bid Security of Rs.30 Lakhs through online payment (NEFT/RTGS)and shall be deposited in favour of DSIIDC Ltd, in the account no - 65093389072 IFSC Code - SBIN0050284, State Bank of India, Branch - Wazirpur Indl. Area, Delhi - 110052.	Request to allow to submit the Bid security in the form of Bank Guarantee If agreed, then also provide the validity period of BG.	No change in clause and as per RFP document only.
27.	Page 16 Clause 5.1 Performance Security	Rs.1 Crore (Rupees One crore only),	Kindly reduce it to Rs. 0.3 Crore instead of Rs.1.0 Crore, so that Bid security can be converted into Performance Security.	No change in clause and as per RFP document only.
28.	Page 9	“Scheduled Project Completion Date” shall mean Fifteen months from the Effective Date.	Kindly amend to Twenty Four (24) Months, as the scope involved to take all approvals and also Define Effective Date shall be date after getting all clearances and local approval.	No change in clause and as per RFP document only.
29.	Page 40	ARTICLE 9: EVENTS OF	The days provided for failed to adhere of	No change in clause and as per

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		DEFAULT ANDTERMINATION	works shall be amend considering the Project Completion period of 24 Months after all clearances and approvals.	RFP document only.
30.	Page 30 Clause 6.1 d	DSIIDC and DPCC will instruct the Industrial Units, CETPs and other hazardous waste generators for disposal of the hazardous waste generated within their Jurisdiction to the TSDF at Bawana.	Request to Consider the NCR Region and provide the blanket permission to consider for waste collection of NCR region.	No change in clause and as per RFP document only.
31.	Page 1	Data provided by DPCC indicates that approximately 4198 tonnes per annum of hazardous waste is generated in Delhi, of which 2318 tonnes of hazardous waste is generated per annum from industrial units and 1880.4 tonnes of HW is generated from 13 CETPs. Out of 4198 tonnes, total 3277 tonnes of hazardous waste will be received at TSDF,	Kindly provide the following A. List of Industries and Category of Industries. B. Provide the finger Print Analysis (FPA) or Characteristic of waste from indurties and CETP units. C. Capacity of all 13 CETP and types of CETP without outlet actual parameters	List of industrial estates and CETP along with hazardous Waste generation has been provided as Appendix 1. Bidder to conduct their own due diligence for FPA.
32.	Page 2	DSIIDC proposes to enter into an Agreement with the	Kindly clarify the contract Agreement to be sign on stamp paper of Rs. 500 or to pay	All expenses shall be borne by the successful bidder. Bidder to

SN	RFP Reference no., Section Nos.	Content of RFP requiring clarification	Queries/ Points requiring Clarification/ proposed changes	DSI IDC Response to the queries
		Successful Bidder	stamp duty, if yes then how much to considered.	conduct their own due diligence.
33.	Page 2 Scope of work	To obtain all applicable permits and clearances required for construction and operation of TSDF	We understand that DSI IDC shall paid all the expenses for such permits and clearances for the same, as this should be in the name of DSI IDC and bidder only help for technical and documentation. Please clarify.	All permits and clearances shall be obtained by the successful bidder. All expenses for the same shall be borne by the successful bidder.
34.	Page 1 Clause 1.1	DSI IDC proposes to develop a TSDF through Public Private Partnership on Build, Operate and Transfer (BOT) basis on the land measuring 14 Acres at Bawana, Delhi, for Hazardous Waste generated from Industries and CETPs located in Delhi.	Kindly clarify whether Environmental clearance and other local approvals is taken or not to develop the project on such 14 Acres land.	All permits and clearances shall be obtained by the successful bidder.
35.	Page 4 Clause 1.5	A flat escalation @ 7% in tipping fees shall be considered per annum for the calculation of tipping fees and the same shall be revised accordingly every year w.e.f. after 1 year post achievement of COD.	Request to provide the escalation @ 7 % in tipping fees , one (1) year after from the date of submission of Tender and not from the one (1) year post achievement of COD.	No change in clause and as per RFP document only.
36.	Page 4 clause 1.4	The concession period shall be 25 years from the date of	Kindly suggest can the contractor have to form Special Purpose Vehicle (SPV) to	No change in clause and as per RFP document only.

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		commencement of Operation of Maintenance of TSDF. At the end of this period, the Concessionaire shall transfer the assets to DSIIDC free of charge in good condition	implement the Project, as we had to hand over after 25 years in good conditions.	
37.	Page 18 clause 3.4.1	The Financial Bids of those Bidders who's Technical Bids were declared non-compliant as Per Clause 3.4.2 or which failed the evaluation criteria as per Clause 3.4.2 shall not be opened.	The clause 3.4.2 says about: The Financial Bid must be uploaded in the format provided in Appendix XII and as per Appendix XII this format is for clarification, hence requested to clarify the clause 3.4.1	The Financial Bid must be uploaded in the PDF format after quoting their rates in accordance of the format provided in Appendix XI.
38.	3.4.2 page no 18	The Financial Bid must be uploaded in the format provided in Appendix XII.	Please clarify is in Appendix XII or Appendix XI as Appendix XII is clarification format.	The Financial Bid must be uploaded in the PDF format after quoting their rates in accordance of the format provided in Appendix XI.
39.	Page 48 and 49	APPENDIX XI: FORMAT OF FINANCIAL BID	Kindly clarify that the financial Evaluation will on Total of Capital cost for the project is INR + (A X B)+(CXD)+(E X F)	Financial evaluation will be on (A X B)+(CXD)+(E X F).
40.	Page 4 clause 1.5	Grant in Aid of 50% of capital cost of the project shall be paid to the concessionaire subject to a maximum amount of Rs.10 Cr (to be paid in 5 Installments	We request to provide in two instalment, so that the project can complete on time without and huddle and others financials issues.	No change in clause and as per RFP document only.

SN	RFP Reference no., Section Nos.	Content of RFP requiring clarification	Queries/ Points requiring Clarification/ proposed changes	DSIIDC Response to the queries
		as detailed in CA).		
41.	Page No 8 Clause No 6	The Concessionaire shall arrange electricity, water & other amenities required for the project. Nothing shall be paid extra on this account.	Request you to kindly provide the rate of electricity and water for use in such project. Also inform the distance from where we can arrange the water and Electricity.	Bidder has to conduct their own due diligence.
42.	Page no 2 clause 1.2.1	Receiving and Transportation (either directly or through its nominated/ contracted transporters) of hazardous waste from Generator's facility to the TSDF.	As Scope of the work also include Transportation of hazardous waste from generator facility and there is no option in Price Bid to Quote the Transportation cost. Also clarify how the financial evaluation will be done without transportation Cost.	<p>The tipping fee quoted by the bidder in the financial format should include transportation cost for collection from industries within 20 Km from TSDF.</p> <p>For collection & transportation of hazardous waste beyond 20 km, additional cost will be calculated using following formula:</p> $\frac{D*2*P*X}{A*C}$ <p>Where:</p>

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				<p>D: Additional distance travelled by the vehicle beyond 20 km</p> <p>P: Price of Diesel will be the price on first day of every month</p> <p>X: Quantity of Hazardous waste collected & transported from individual industry</p> <p>A: Distance travelled by a vehicle (Km) in one litre</p> <p>C: Carrying capacity of the vehicle</p>
43.	Page 2 Clause 1.1.3 Site Details	The land is traversed by high tension electric cables	It was observe during site visit that High Tension line is crossing near proposed site. Kindly provide the KVA rating of the HT Line crossing across the proposed site and nature of the line (Express feeder or Normal feeder)	Bidder to conduct their own due diligence.
44.	Page 2 Clause 1.1.3 Site Details	A 22 meter wide storm water drain (Bawana escape) is also traversing the entire width of the site on the north-west portion of the land. A green belthas been created on the North-West of the proposed facility. JJ Colony and DDA	<p>Kindly Clarify the following</p> <p>A. Storm Water drain is traversing the proposed site, kindly justify/clarify how to take the EC , as per the knock out criteria of CPCB for setting up of TSDF, states that there should not be any natural drain crossing across the plot boundary.</p>	The Government of Delhi has provided the site for construction of TSDF.

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		constructionis going on the northern side of the site. The Yamuna canal and Western Yamuna Canal Link Road is on the south west. River Yamuna is flowing about 13.5 Km from the site boundary.	B. NOC from JJ Colony and DDA Construction. Without the above it is not possible to take EC.	
(D)	M/s Ramky Enviro Engineers Limited			
45.			The area allotted for TSDF is 14 acres, Hi-tension lines are occupying for 4 acres.	TSDF is to be developed in the available land acquired for development.
46.			There is a drain passing through the site. Is there any scope of drain diversion by the government or DSIIDC	Bidder to conduct their own due diligence.
47.			There is no mention of the waste escalation	No change in clause.
48.			Waste volume is 4000 TPA. Assuming minimum waste escalation the available land is for a limited time period. Is there any provision for the additional land.	There is no provision for the additional land at this stage.
(E)	M/s Gujarat Enviro Protection & Infrastructure (Haryana) Pvt. Ltd.			
49.	1.8	Schedule of Bidding Process	Bid Submission Deadline and opening of Technical Bids IS 08/01/2018 Bid submission deadline may please be extended for a month. i.e. Bid should be submitted by 08/02/2018	Last date for submission of Bid has been extended and now the last date & time for submission of Proposal shall be 29.01.2018 upto 15.00 Hrs. Date & time of opening of Technical Bid shall be 29.01.2018 at 15.30 Hrs.
50.	1.1.4	Topographic survey	PDF of topographic survey is provided May	Topography survey in Auto Cad

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			please provide Topography survey in Auto Cad format	format has been provided
51.		Ground Water	Water level has not been defined May please provide data on water table of the site	Ground water level data has been provided in Appendix II.
52.		Soil testing report	Report has not been shared May please provide soil testing report	Bidder to conduct their own due diligence.
53.	1.1.2	Waste Quantification	May please share exact details of the waste to be received along with industry data.	List of industrial estates and CETP along with hazardous Waste generation has been provided as Appendix 1 which is only indicative and bidders have to conduct their own due diligence in this regard.
54.	APPENDIX-XI	FINANCIAL BID FORMAT	Transportation cost and tipping fees to be separated and Transportation cost to be quoted in slabs. The basis for comparison can only be defined if tipping and transportation cost are quoted separately.	The tipping fee quoted by the bidder in the financial format should include transportation cost for collection from industries within 20 Km from TSDF. For collection & transportation of hazardous waste beyond 20 km, additional cost will be calculated using following formula: $D*2*P*X$ $A*C$ Where: D: Additional distance travelled

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				by the vehicle beyond 20 km P: Price of Diesel will be the price on first day of every month X: Quantity of hazardous waste collected & transported from individual industry A: Distance travelled by a vehicle (Km) in one litre C: Carrying capacity of the vehicle
55.	2.16.3	PERFORMANCE BANK GUARANTEE of 1 Cr. is too high	PBG may please be reduced to INR 20 Lakhs. Blocking funds for longer period doesn't look feasible.	No change in clause and as per RFP document only.
56.	Schedule B	All approvals and permissions are kept under bidder's scope.	DSI IDC should act as nodal agency in obtaining all the permissions and approvals from all concerned departments.	All permits and clearances shall be obtained by the successful bidder.
57.	Schedule B	Approvals from Government Departments.	In case of rejection of EC due to any reason, will the amount spent on this exercise till that point of time be reimbursed by DSI IDC ?	All permits and clearances shall be obtained by the successful bidder. All expenses for the same shall be borne by the successful bidder.
58.	1.2	15 months time has been defined to construct the facility including taking all approvals.	Extension for work completion (minimum 6 months) may please be granted for successful completion of site construction work. We anticipate approvals may take more time.	No change in clause and as per RFP document only.
59.	Site visit	DDA residential clusters and JJ Cluster is situated very near to		The Government of Delhi has provided the site for construction

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		the site (200-300 meters)		of TSDF.
60.	Site visit	Approach Road	No approach road is seen near the site Approach road is passing through JJ cluster which is very congested and may effect the movement of Heavy vehicles. Is there any possibility to construct a road from Yamuna link road to the site?	Bidder to conduct their own due diligence.
61.	Site visit	Over the proposed site local farmers have sown seeds for some crop.	The local people should not protest against upcoming facility.	The Government of Delhi has provided the site for construction of TSDF.
62.	Site visit	TRANSMISSION TOWER: Specify the land that has to be left unconstructed for green belt.	400 KV Electric Transmission line is passing through the identified site. Does Pragati Power Plant have any objection in construction of such facility?	The Government of Delhi has provided the site for construction of TSDF.
Other Miscellaneous Corrections				
63.	Page 1-101 of concession agreement exists in place of page no. 1-98 as mentioned in index at (v).			
64.	Fraud and Corrupt Practices are mentioned at 3.7.1, 3.7.2, 3.7.3 on page no. 20-21			
65.	Financial bid shall be filled as per the format provided in RFP document and uploaded after converting it to PDF.			
66.	<p>Concession period defined in Article 2 should be read as</p> <p>The Concession hereby granted is from the period commencing from the Date of Appointment and ending on the Expiry Date ("the Concession Period") and includes construction period of 15 months and 25 years of operation and maintenance period; during which the Concessionaire is authorised to design, finance, construct, operate and maintain the TSDF in accordance with the provisions hereof.</p>			
67.	<p>Article 2 Clause 1.1, 1.2 and 1.3 should be read as clause 2-1, 2.2 and 2.3 of Project Information Memorandum.</p> <p>Article 3 Clause 1.1, 1.2 ,1.3 ,1.4 should be reread as 3.1, 3.2 and 3.3 and 3.4 of Project Information Memorandum.</p>			

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	Article 4 Clause 1.1, 1.2 and 1.3 should be reread as 4.1, 4.2 and 4.3 of Project Information Memorandum.			

Appendix I

Location wise Hazardous Waste Generation

District	S N	Industrial Arsea	Type of industries	Hazardous waste 2016 (TPA)	
East Delhi	1	Non Industrial Area	Automobile Servicing	35.65	
West Delhi	2	Anand Parbat Industrial Area	Printing, Metal Finishing, Electroplating	19.55	
	3	Kirti Nagar Industrial Area	Printing, Wire Drawing, Automobile Servicing, Manufacturing & Engineering works	24.578	
	4	Najafgarh Road Industrial Area	Printing, Automobile Servicing, Manufacturing & Engineering works	110.3	
	5	Nangloi Industrial Area	Printing, Manufacturing of Plastic & Engineering works	31.395	
	6	Naraina Industrial Area Phase - II	Printing, Manufacturing o Electrical parts & Engineering works	27.9	
	7	Tilak Nagar Industrial Area	Printing & Automobile Servicing	9.2	
	8	Udyog Nagar Industrial area	Printing, Automobile Servicing, Manufacturing of Auto parts & plastic items	61.345	
	9	Keshopur Industrial Area	Bike Repair (Without Washing)	2	
	10	Moti Nagar DLF Industrial Area	Printing, Wire Drawing, Automobile Servicing	304.665	
			Non Industrial Area		73.149
			Sub Total		664.082
	North Delhi	11	Badli Industrial Estate	Printing, Metal Finishing, Wire Drawing, Cold Re Rolling	30.576
12		Bawana Industrial Area	Printing, Wire Drawing, Automobile Servicing, Mfg. of Card Board & Corrugated Boxes	35.176	
13		G.T. Karnal Road Industrial Area	Printing, Automobile Servicing, Light Engineering Works	47.43	
14		Narela Industrial Area	Light Engineering Works, Manufacturing of Plastic Items, Electroplating	15.595	
15		Rajasthan Udyog Nagar Industrial Area	Wire Drawing, Automobile Servicing	28.64	
16		S.M.A Industrial Area	Pickling of Metal Sheet, Automobile Servicing, Light	22.582	

District	S N	Industrial Arsea	Type of industries	Hazardous waste 2016 (TPA)
			Engineering Works	
	17	S.S.I Industrial Area	Pickling of Metal Sheet, Automobile Servicing	26.66
	18	Mohan Co-operative Industrial Area	Miscellaneous	38.91
		Non Industrial Area		35.6
		Sub Total		281.169
North East	19	Shahdara Industrial Area (North of GT Road)	Wire Drawing, Automobile Servicing	2.08
		Non Industrial Area		26.8
		Sub Total		28.88
North West	20	Lawrence Road Industrial Area	Printing , Mfg of Polythin bags	1.66
	21	Mangolpuri Industrial Area	Printing, Automobile Servicing, Light Engineering Works	34.984
	22	Samaipur Industrial Area	Printing	0.56
	23	Wazirpur Industrial Area	Cold Re Rolling, Automobile Servicing, CETP	85.79
		Non Industrial Area		123.612
		Sub Total		246.606
New Delhi	24	Mayapuri Industrial Area	Printing, Automobile Servicing, Light Engineering Works	105.875
	25	Naraina Industrial Area Phase - I	Printing, Automobile Servicing, Light Engineering Works	57.84
		Non Industrial Area		99.613
		Sub Total		263.328
South	26	Non Industrial Area	Automobile Servicing	84.7
South West	27	Non Industrial Area	Automobile Servicing	80.919
South East	28	Mohan Co-operative Industrial Area	Printing, Automobile Servicing	41.77
	29	Okhla Industrial Area	Printing, Automobile Servicing	290.4025
	30	Okhla Flatted Factory Complex	Printing Work	1.37
	31	Okhla Industrial Estate	Printing, Automobile Servicing	6.025

District	S N	Industrial Arsea	Type of industries	Hazardous waste 2016 (TPA)
	32	Non Industrial Area		0
		Sub Total		339.5675
Central	33	Jhandewalan Falatted Factory Complex	Printing Work	0.02
	34	Shahzada Bagh Industrial Area	Printing, Manufacturing of Printing Material	14.06
		Non Industrial Area	Petrol Pumps cum Service Station	44.715
		Sub Total		58.795
Shahdara	35	Friends Colony Industrial Area	Wire Drawing, Printing	48.265
	36	Jhilmil Industrial Area	Wire Drawing, Service Station, Printing	43.382
	37	Patparganj Industrial Area	Service Station, Printing, Light Engineering	140.995
		Non Industrial Area		1.56
		Sub Total		234.202
		Total		2317.899
		CETP Sludge		1880.4
		Grand total in tonnes (approximately)		4197.76

Source: Data provided by DPCC from Hazardous waste authorisation renewal form (2011-2016(Jan))

Location wise Hazardous Waste Generation (CETP)

S. No.	Name of CETP	District	Sludge Generation (TPA)	Total Sludge accumulated till date 22/2/2014 (MT)	Sludge accumulation till July 2016 (MT)	Projected Sludge accumulation till Feb 2018 (MT)
1	Okhla	South East	149.196	1324	1684.557	1920.784
2	Naraina	West Delhi	126.624	1234	1540.008	1740.496
3	Mayapuri	New Delhi	47.196	270	384.057	458.784
4	Badli		105.744	574	829.548	996.976
5	Bawana	North Delhi	280.992	452	1131.064	1575.968

S. No.	Name of CETP	District	Sludge Generation (TPA)	Total Sludge accumulated till date 22/2/2014 (MT)	Sludge accumulation till July 2016 (MT)	Projected Sludge accumulation till Feb 2018 (MT)
6	G.T.K.		41.4	1080	1180.05	1245.6
7	Lawrence Road	North West	38.256	419	511.452	572.024
8	Mangolpuri	North West		320	320	320
9	Narela	North Delhi	158.136	1957	2339.162	2589.544
10	SMA		111.996	2078	2348.657	2525.984
11	Wazirpur	North West	738.216	5806	7590.022	8758.864
12	Nagloi		42.96	263	366.82	434.84
13	Jhilmil	Shahdara	39.684	144	239.903	302.736
Total			1880.4	15921	20465.3	23442.6

Source: DPCC

Appendix II

Ground Water Table Determination Report