

Appendix-1

STATUS OF ENVIRONMENTAL CLEARANCES

<u>MSW Processing Plant Facility & Sanitary Landfill Facility at Jamalpur & Jainpur, Ludhiana</u>		
<u>S. No</u>	<u>Approval / Clearance</u>	<u>Current Status</u>
1.	District Level Committee (DLC) Clearance	Site has been cleared by DLC
2	Site Authorization for Processing Facility & Sanitary Landfill Facility (Jamalpur) under MSW Rules from Pollution Control Board. (PPCB)	Site Authorization received on 25 Feb. 2011.
3	Site Authorization for Processing Facility & Sanitary Landfill Facility (Jainpur) under MSW Rules from Pollution Control Board. (PPCB)	Awaited.
4.	EIA Clearance under EIA Notification as per The Environment Protection Act -1986	Form-1 and TOR for EIA-EMP Study is applied to State EIA Authority (SEAA) and MoEF.

Appendix-2

DISTNACE BETWEEN PROCESSING FACILITY SITE & ALL CLUSTER ULB

LUDHIANA CLUSTER	WASTE QTY (TPD)	ULB's CATERED BY TRANSFER STATION	WASTE QTY (TPD)	DISTANCE FROM PROPOSED TS (KM)	TRANSFER STATION	DISTANCE FROM PROCESSING SITE (KM)	PROCESSING SITE	DISTANCE OF DISPOSAL SITE	DISPOSAL SITE
Ludhiana (M Corp.)	960	Khanna (M Cl)	41.0		KHANNA	42	JAMALPUR LUDHIANA	0	JAMALPUR LUDHIANA
Doraha (M Cl)	5.5	Payal (M Cl)	2.0	17					
Jagraon (M Cl)	21	Total MSW at TS	43						
Khamanon (NP)	2.5								
Khanna (M Cl)	41	Jagraon (M Cl)	21.0		JAGRAON	38.0			
Machhiwara (NP)	5.2	Mullanpur Dakha (NP)	4.2	12					
Malaudh (NP)	2	Total MSW at TS	25.2						
Mullanpur Dakha (NP)	4.2								
Payal (M Cl)	2	Doraha (M Cl)	5.5	DIRECT TRANSPORTATION		21			
Raikot (M Cl)	7	Ludhiana (M Corp.)	960			0			
Sahnewal (NP)	5	Malaudh (NP)	2			30			
Samrala (M Cl)	5.5	Sahnewal (NP)	5			14			
Phillaur (MCI)	6.28	Khamanon (NP)	2.5			48			
		Machhiwara (NP)	5.2			46			
		Samrala (M Cl)	5.5			34			
		Raikot	7			38			
		Phillaur	6.28			15			
		Total	998.98						
		TOTAL MSW	1067.2						

Appendix-3

ESTIMATED TOTAL PROJECT COST

ESTIMATED TOTAL PROJECT COST WITHOUT POWER PLANT		
Code	Item	Total Cost INR
1	Collection and Transportation	
1.1	Primary Collection	41564500
1.3	Secondary transportation vehicles	30550000
1.4	Transfer Stations including segregation of sand and earth (5 Nos) - (4 no 500 TPD , additional 1 no 200 TPD at zone D after 2020) - @ 2crores for 500 TPD capacity	0
2	Processing & disposal sites at Jamalpur	
2.1	Weigh Bridge at Jamalpur (2 way)	1000000
2.2	Segregation facility at Jamalpur- receiving Hopper 750 TPD	30000000
2.3	Trammel 35 tons/hr 2 nos and 10 ton/hr -1 no	7500000
2.4	Conveyor to processing facilities	3000000
	Processing & disposal sites at Jainpur	
2.5	Weigh Bridge at Jainpur	1000000
2.6	Segregation facility at Jainpur- receiving Hopper	15000000
2.7	Trammel 20 tons/hr 2 nos	4000000
2.8	Conveyor to processing facilities	2000000
3	Compost Facility at Jamalpur Site	
3.1	Civil works	35013500
3.2	Mechanical Equipments at Compost Facility	26500000
	Compost Facility at Jainpur Site	
3.3	Civil works	18034750
3.4	Mechanical Equipments at Compost Facility	17000000
4	Plastic waste recycling unit upto pellatisation	10000000
5	Recycling- Fluff recovery unit	
5.1	JCB, natural drying pad, air dryers, pollution control equipment, shredder (25 t/hr), mechanical sieve, compactor, briquette/bailing equipment, storage sheds, etc.	60000000
6	Construction and demolition waste recycling facilities 50 t/hr capacity	
6.1	Crusher, RCC Platform, Feed hopper, Grizzly feeder, JCB, Vibro screens, etc.	50000000
7	Landfill Facilities	
7.1	Landfill Facility Construction at Jamalpur site	363587717
7.2	Landfill Facility Construction at Jainpur site	167046406
8	Power Plant (10 MW)	0
9	Collection & Transportation cost of other ULBS	30958000
	Total Cost	913754873
	Environment Awareness and training (1%)	9137549
	Risk management and Insurance (1 %)+0.5%	13706323
	Base Project Cost	936598745
	Contingency 5% of above components	46829937
10	Supervision Cost at 0.76 % of Construction Cost, including Contingencies	7474058
	Project Cost after Contingency and Supervision	990902740
11	Fees for Financial Services @ 0.75% Of Project Cost after Contingency and supervision	7431771
12	Project Development Fee @ 4.5% of Estimated Total Project Cost	47041940
	Estimated Total Project Cost	1045376451

Appendix-4

TIPPING FEES INDEX

Tipping Fee (s) quoted by the Selected Bidder [X1, (X2,n) and X3] shall be applicable for the Financial Year in which COD-CTP&D is achieved. This Tipping Fee shall be increased every 2 years starting from the Financial Year of COD-CTP&D till the end of the Concession Period.

For any given Financial Year (t) during the Term, X1, (X2,n) and X3 shall be revised as follows:

$$X_{(t)} = X_{(t-2)} * [50\% * \text{Inflation CPI-IW}_{(t)} + 50\% * \text{Inflation-WPI All commodities}_{(t)}]$$

Where:

‘X’ means the Tipping Fee(s) i.e. X1, (X2,n) and X3, as the case may be;

‘t’ would represent the years i+2z, with ‘i’ representing the Financial Year of COD-CTP&D and ‘z’ is a whole number;

‘X’ means the Tipping Fee(s) i.e. X1, (X2,n) and X3, as the case may be

Inflation CPI-IW_(t) = Percent increase in All India Consumer Price Index for Industrial Workers between December (t-1) and December (t-3).

Inflation WPI-All Commodities_(t) = Percent increase in Wholesale Price Index for All commodities(monthly average) between December (t-1) and December (t-3).