Conceptual Plan

Introduction

General

- As per the EIA Notification 2006, All the building construction projects/Area Development projects and Township Projects comes under schedule 8.All the projects which have built up area ≥20000 m^2 and <1, 50,000 m^2 they come under schedule 8 (a).
- Total Built up area of the proposed hospital Project is 55,048.734 m^2. Which comes under schedule 8 (a) of listed schedules to Notification and has to obtain the Environment Clearance from SEIAA/MoEF&CC.

Brief About Project

- This is a 568 Bedded (200 Existing + 368 Proposed) super specialty hospital. Bhagwan Mahavir Hospital was inaugurated on 25th September, 2003 with OPD services in basic branches i.e. Medicine, Surgery & O&G and other major specialties like ENT, Skin, Ortho, Eye, Dental, and Pediatrics were added over a period of time. Indoor services with facility of 60 beds were started on 5th September, 2005 which was extended to 130 beds in 2007-08, 170 beds in 2009-10. Presently, total bed strength of the hospital is 200.
- BMV hospital is multispecialty secondary level hospital providing quality preventive, promotive and curative & palliative health services to the adjoining and distant areas of Delhi and NCT
- The hospital besides providing outdoor consultation and dispensing, has indoor facility for 200 patients. It is 24 hours casualty services including emergency operative facility, laboratory and x-ray investigations. The maternity (Labour room) and new born care (Nursery) services and operative delivery services are also available round the clock.
- Considering the above, the existing land use is not expected to get altered due to construction of proposed project. Copy of land allotment letter attached

Annexure 1: Allotment Letter from DDA

- The existing buildings were constructed and also became operational prior to the publication of EIA Notification 2006. Therefore, the existing buildings did not attract applicability of to obtain Environmental Clearance from SEIAA/MoEF& CC and no environmental clearance was issued to PWD department. Accordingly, the issuance of certified monitoring report by Regional Director of MoEFCC is not applicable for the existing buildings. Howver, Consent to operate and occupational certificate for the existing building has been obtained from the concerned authorities.

Annexure 2- Consent to Operate and Occupational Certificate from DPCC

Site Surroundings and Connectivity

Location

The proposed site is connected to all the transport facilities. It is surrounded by residential areas sainik vihar, rishi nagar, pundrik vihar, lotus enclave, Punjabi bagh, shakarpur etc. within 2 km of the area..

The geo graphical co-ordinates of site are given in table 1.

Table 1: Co-ordinates of the Site

Points	Lattitude	Longitude
Centre of The plot	28°41'18.70"N	77° 7'4.41"E
Corner-1	28°41'22.64"N	77° 7'7.87"E
Corner-2	28°41'14.65"N	77° 7'6.89"E
Corner-3	28°41'15.39"N	77° 7'0.95"E
Corner-4	28°41'18.70"N	77° 7'4.41"E

Site is well connected to transport facilities as well as surrounded by densely populated areas. Project site is adjacent to the sector road (Rd No. 42/Guru Harkrishan Marg) and near to railway colony (south). Site surroundings and Connectivity details of the project are given in below table.

Site surroundings and site connectivity is shown in below table

Table 2 : Site Surroundings and Connectivity

S.No.	Particulars	Name	Distance 'n' Direction (approx.)
1.	Nearest Railway Station	• Shakur Railway station • New Delhi Railway Station • Mangoli Railway station	1.30 km in SE 11.41 km in SE 5.91 km in W
2.	Nearest Airport	• IGI international Airport • Safdarjung airport	14.78 km in S 14.80 km in SE
3.	Nearest Populated Area	• Rishi Nagar • Rani Bagh • Shakur Basti • Surya Enclave	0.81 km in E 0.90 km in ENE 1.29 km in SE 1.50 km in SSW
4.	State Boundary	• Delhi-UP state Boundary • Delhi-HR State Boundary	13.91 km in NE 15.94 km in W
5.	Nearest Roads	• Guru Harkrishan Marg • NH-9	0.12 km in S 1 km in NNW

		• Rohtak Road	1.60 km, SSW
6.	Nearest School	• Keshav Mahavidyalya • KIIT world school • Max Fort School	0.22 km in E 0.30 km in NNW 0.84 km in NW
7.	Forest	• Central Ridge Reserve Forest	9.43 km in SE

***(Source: Google Earth* Pro)**

Google map and topographical map showing site and surroundings within 500 mtrs, 10 km and 15 km are attached.

Annexure 3- Google map showing site and surroundings within 500 mtrs

Annexure 4-Toposheet map showing site and surroundings within 10 and 15 km

Salient features of the Site

The salient features of the hospital project are as follow.

Table 3 : Salient Features

S.No.	Description	Proposed
1.	Plot Area	40,043.25 m^2
2.	Proposed Built Up Area (Existing + Expansion)	55,048.734 m^2 (Existing- 36,859.758 m^2 , Expansion- 18,188.976 m^2 **)**
3.	Number of Beds	Total- 568 beds 200 (Existing) + 368 (Proposed)
4.	Maximum Height	29.15 meters (hostel, G+7)
5.	Maximum No. of Floors	G+7 Floors (Residential), B+G+5 (Hospital)
6.	Cost of Project	Approx.Rs.172 Crores
7.	Expected Population (Existing + Expansion)	3978
8.	Total Water Requirement	613 KLD
9.	No. of RWH Proposed	9
10.	Parking Proposed	511 ECS
11.	Solid Waste Generation	2,043 kg/day (Existing)
12.	Power Source & Requirement	Source-BSES Existing- 1,313 kVA (1182 KW) Expansion - 1,501 kVA (1351 kW).
13.	D.G. Set Back Up	2,250 (3*750 kVA each)

Area Details

Site is having plot area of 40,043.25 m^2 (9.89 Acre).The existing hospital building having residential as well as hospital block. The existing building is having 200 bed facilities and new 368 beds are being proposed. Modernisation well as vertical expansion of existing blocks and one new OPD's construction will take place, however there is no change in residential block and hostel area. Total built up of existing + expansion area is 55,048.734 m^2

Area details are given in below table.

Table 4: Detailed area Statement

S.No.	Particulars	Existing Area (m^2)	Expansion Area (m^2)	Total Area (m^2)
1.	Plot Area			40,043.25
2.	Permissible Area for Hospital (H)			29,219.56
3.	Permissible area for Residence (R)			10,423.70
4.	Permissible Ground Coverage for Hospital (@40% of PA)			16,017.3
5.	Additional Permissible GC for MLCP (@5% of PA)			2,002.1625
6.	Permissible FAR (ROW 30 mtrs & above) @ 3.75			1,50,162.1875
	Permissible FAR for Residential area (25%)			13,863.52
7.	Proposed Ground Coverage for Hospital (@ 26.83 % of PA(H))	6,331.01 -	1511.33	**7,842.34**
8.	Proposed Ground coverage for Residential (@ 12.6 % of PA(R)) • Quarters (Type-I-V) • Hostel • Servant Quarter	1,320.40 654.1258 474.9 191.28	 - - -	**1,320.40** 654.1258 474.9 191.28
9.	Proposed FAR for Hospital	26,396.72	13,466.59	**39,863.31**
10.	Proposed FAR for Residential • Quarters (Type I-V) • Hostel • Servant Quarter	**10,463.038** 6,334.398 3,746.72 381.92		**10,463.038** 6,334.398 3,746.72 381.92
11.	**Built Up Area**	**36,859.758**	**18,188.976**	**55,048.734**

12.	Service area (Free of FAR)		4,722.386	4,722.386
13.	Internal Road Area	2,364.56 (residential)	5,987.99 (hospital)	8,352.55
14.	Parking Area Open (hospital) Open (residential) Covered Garage (Residential)	 4,167.23 (184ECS) 889.64 (33 ECS) 3,082 (139 ECS)	 1,448.23 (63 ECS) 7,165.6 (447 ECS) (MLCP)	
15.	Landscape Area (@ 32.13 % of PA)	5,045.17	7,828	12,873.17
16.	Maximum Height of the Building (Hostel) (G+7)			**29.15 mtrs**

The site layout is attached.

Annexure 5 : Site Layout Plan

Floor Area Ratio Details

A) Residential Building

Table 5: Ground coverage & FAR Details for the Residential (Existing)

Type	*Ground Coverage (m2)*	*No. of Units*	*Area (m2)*	*No. of Blocks*	*Total area (m2)*
Type I	*101.82*	*8 (G+3)*	*358.16*	*4*	*1,432.64*
Type II	*123.65*	*8 (G+3)*	*445.27*	*3*	*1,335.81*
Type III	*153.67*	*8 (G+3)*	*533.716*	*3*	*1,601.148*
Type IV & Garage	*133.38*	*8 (G+7)*	*837.92*	*1*	*863.07*
Type V	*141.61*	*8 (G+7)*	*863.07*	*1*	*1,101.73*
Hostel	*474.9*	*8 (G+7)*	*3,746.726*	*1*	*3,746.73*
Servant quarter	*191.28*	*4(G+1)*	*190.96*	*2*	*381.92*
Total Area	***1,320.31***				***10,463.048***

B) Hospital Building

Table 6-Ground coverage & FAR Details for the Hospital (Existing + Expansion)

Floors	*Ground Coverage (m2)as per old sanctioned old drawing*	*Ground coverage (Proposed)*	*FAR Area (m2) as per old sanctioned old drawing*	*FAR Area (m2) Proposed*
Basement			*3,908.95*	*0*
Gr. Floor	*6,331.01*	*1,511.33*	*6,331.01*	*1,511.33*
First Floor			*5,477.78*	*1,451.19*

Second Floor			*5,394.53*	*941.65*
Third Floor			*2,666.83*	*3,252.99*
Fourth Floor			*2,617.62*	*2,812.52*
Fifth Floor			*0*	*3,496.91*
Total Area	***6,331.01***	***1,511.33***	***26,396.72***	***13,466.59***

Population Density

During the Construction Phase

The total manpower requirement during construction phase of the expansion area will be an approximate 80-120 person which includes workmen, labourers, supervisors, engineers, architect and manager.

During Operational Phase

The total population of the project (Existing + Expansion) will be **3978** persons that include residents; staff as well as Visitor population .The detailed population breakup including Staff members as well as visitors is given in the Table 7

Table 7 : Population Break Up

S.No.	Particulars	Existing	Expansion	Total Population
A)	**Hospital Blocks**			
1.	No. of Beds (Patients)	200	368	568
2.	Regular Staff • Doctors • Administrative Staff • Nurses/Ward Boys	454	280	734
3.	Attendants	200	368	568
4.	OPD	800	600	1400
	Sub- Total (A)	**1654**	**1616**	**3270**
B)	**Residential Block**			
1.	Residents (104 D.U.)	520		
2.	Doctor's Hostel (1bed/room)	28		
3.	Dormitories (2bed/room)	98		
4.	Visitors (@10% of Population)	52		
5.	Kitchen Staff	10		
	Sub-Total (B)	**708**		**708**
	Total Population (A + B)			**3978**

Land Details

Land has been allotted for the construction of Hospital Building. Allotment letter has been attached as annexure 1.

Topography

There are no significant physiographic features seen at the project site or the surroundings. The entire area is monotonously flat. The project area possesses plain terrain. Highest elevation levels is 216 mtrs & the lowest levels is 214 mtrs.

Water Requirement and Source

Construction Phase

During the construction phase the water requirement (approx. 250-270 ML) will be met from Private water or treated wastewater from nearby CSTP. No ground water will be extracted. Hence, there will be no impacts on ground water environment during construction phase.

Operational Phase

Total water requirement for hospital Project (Existing + Expansion) is 613 KLD. Total domestic water requirement is approx 428 KLD. The fresh water will be obtained from water supply department of DJB. Detail of water requirements for various uses is given in below table. Efficient dual flushing fixtures will be provided for conservation of fresh water.

Water Balance diagram during Non Rainy season and Rainy season are shown below.

Table 8 : Total Water Requirement during Operational Phase for the Existing Area

S.No	Description	Total Population	Unit water Consumption LPCD	Water Requirement		Total Water Requirement (KLD)
				Flushing Use (KLD)	Domestic Use (KLD)	
1.0	*Hospital*					
	Patients	200	340	30.00	60.00	90.00
	Staff	454	45	9.08	11.35	20.43
	Attendants	200	86	5.20	12.00	17.20
	Visitors +OPD	800	15	4.00	8.00	12.00
2.0	*Residential*					
	Residents	520	86	13.52	31.20	44.72

	Doctor's Hostel	186	86	3.28	7.56	10.84
3.0	*Dining Block*					
	Staff	10	45	0.20	0.25	0.45
	Food Facility		35	3.78	9.45	13.23
	Visitors	52	15	0.26	0.52	0.78
	Domestic Water					***209.65***
4.0	***Other Uses***					
	Landscape area (5,045.17 m2)		1ltr/sq.mtr			5.05
	DG cooling (3× 750 kVA)		0.9l/kva/hr			12.15
	HVAC (300 TR)		10lt/TR/hr			30
	Total (KLD)					***256.85 say 257 KLD***

Table 9-Total Water Requirement during Operational Phase of Total (Existing + Expansion)

S.No	Description	Total Population	Unit water Consumption LPCD	Water Requirement		Total Water Requirement (KLD)
				Flushing Use (KLD)	Fresh Use (KLD)	
1.0	*Hospital*					
	Patients/IPD	568	340	85.20	170.40	255.60
	Staff	734	45	14.68	18.35	33.03
	Attendants	568	86	14.77	34.08	48.85
	Visitors +OPD	1400	15	7.00	14.00	21.00
2.0	*Residential*					
	Residents	520	86	13.52	31.20	44.72
	Doctor's Hostel	186	86	3.28	7.56	10.84
3.0	*Dining Block*					
	Staff	10	45	0.20	0.25	0.45
	Food Facility		35	3.78	9.45	13.23
	Visitors	52	15	0.26	0.52	0.78
	Domestic Water					***428.49***
4.0	***Other Uses***					
	Landscape area (12873.17 m^2)		1ltr/sq.mtr			12.87

	DG cooling (3× 750 kVA)		0.9l/kva/hr	12.15
	HVAC (1100 TR)		10lt/TR/hr	110
	OT, blood bank, lab. & laundry (@3.5 kg lenen per bed)	3.5*568beds	25l/kg/day 49.7	49.7
	Total (KLD)			***613.21 say 613KLD***

Table 10- Wastewater Calculation with respect to ETP

S.No.	Description	Quantity (KLD)
01	Fresh and flushing water requirement for the hospital including: • IPD (@15% of total IPD water requirement) • OPD (@10% of total OPD water requirement) • OT, Blood bank, Laboratory Laundry-568 beds (25 lt/kg/bed) (1988 kg)	 38.34 2.1 49.7
02	Wastewater going to ETP @ 80% of (38.34+2.1 KLD) & 100% of (49.7 KLD)	82.05 say 82 KLD
03	Capacity	**98 KLD**

Table 11- Wastewater Calculation with respect to STP

S.No.	Description	Quantity (KLD)
01	Fresh water requirement for the hospital Excluding (@15% IPD, and 10% OPD,) (285.81-38.34-2.1)	245.37
02	Flushing water requirement for the hospital Excluding (@15% IPD, and 10% OPD) (142.69 -16.49-0.99)	102.25
03	Wastewater Generation @ (80% of Freshwater + 100% of Flushing)	298.5 say 299 KLD
04	**STP Capacity**	**360 KLD**

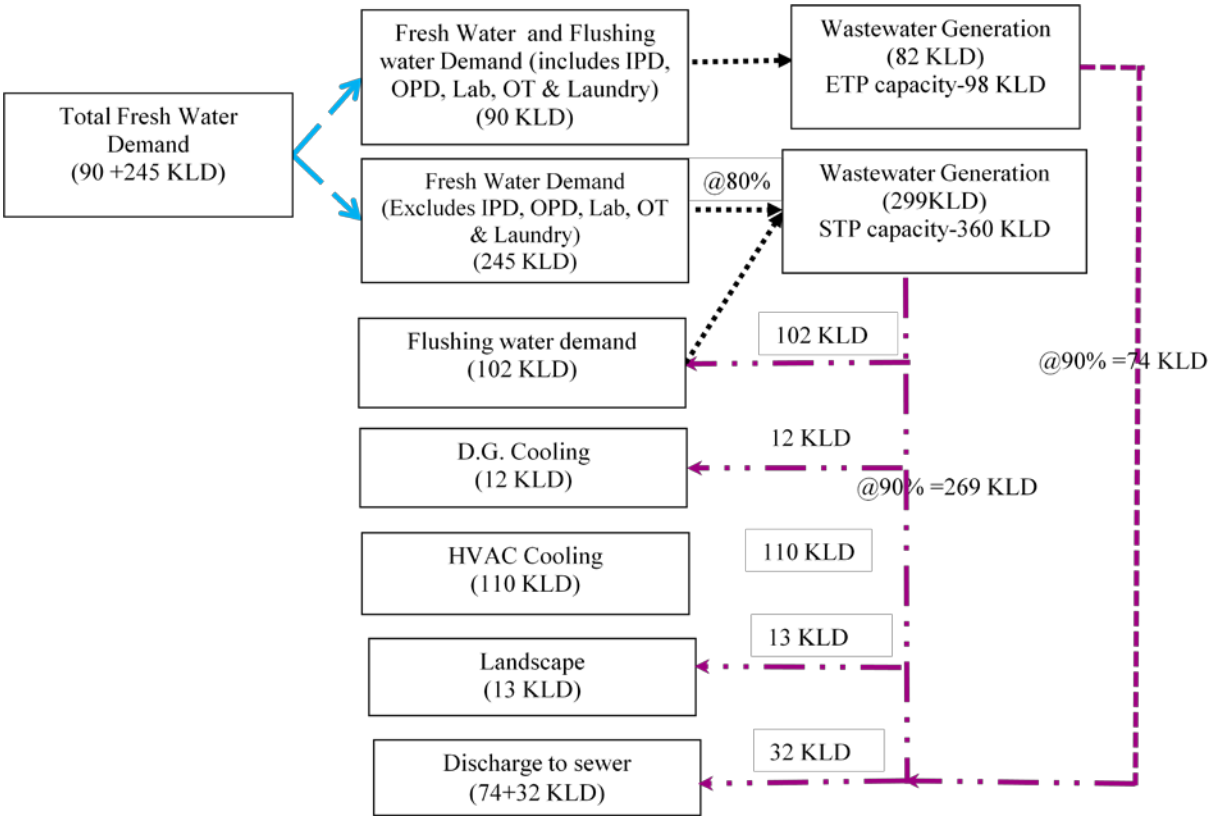

Figure 1-Water Balance Diagram during Non-Rainy Season

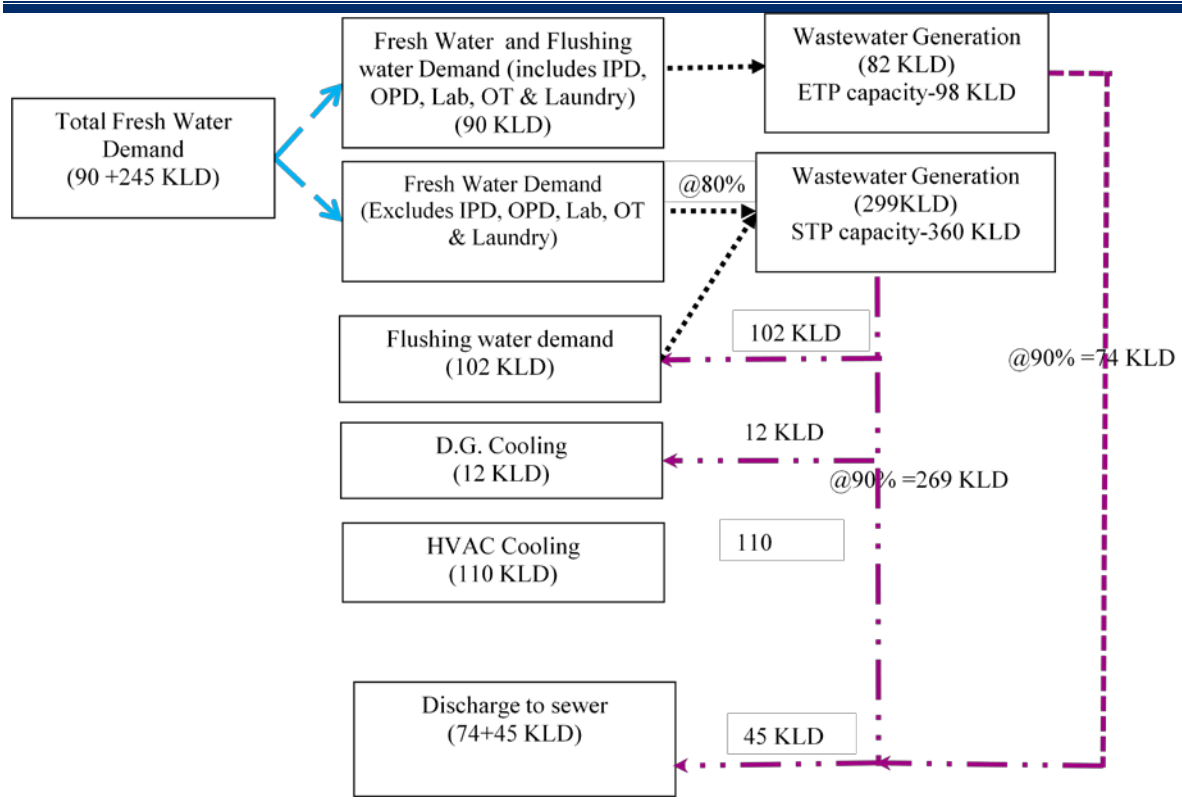

Figure 2-Water Balance Diagram during Rainy Season

Sewage Generation and Disposal

During Construction Phase

The quantity of sewage generation during the construction phase will be approx. 3.6 KLD. Thus the sewage will be treated by providing small septic tanks, soak trenches and sulabh shauchalaya type mobile toilets.

During Operational Phase

Quantity of sewage generated during operational phase shall be 299 KLD from Residential and hospital building and 82 KLD from lab, OT and laundry etc. Thus the sewage will be treated through sewage treatment plant of 360 KLD and ETP of 98 KLD capacity. The treated sewage will be re used for flushing (102 KLD) greenbelt development (13 KLD) and for HVAC & DG cooling (122 KLD). The surplus treated wastewater during dry season (106 KLD) and during Monsoon Season (182 KLD) will be discharge to nearby municipal sewer.

Sewage Treatment Technology

Membrane Bio Reactor (MBR)

For the Existing building, 3 Rainwater harvesting pits are proposed

Calculations for storm water load for expansion area

Roof-top area = Ground Coverage = 7,842.34 m^2

Green Area = 7,828 m^2

Total plot area = 40,043.25 m^2

Paved Area = Total Plot Area – (Roof-top Area + Green Area)
= 40,043.25 – (7,842.34 + 7,828)
= 24,372.91 m^2

Runoff Load

Roof-top Area = 7,842.34 × 0.045 × 0.8
= 282.32 m^3/hr

Green Area = 7,828 × 0.045 × 0.1
= 35.226 m^3/hr

Paved Area = 24,372.91 × 0.045 × 0.75
= 822.58 m^3/hr

Total Runoff Load = 1,140.13 m^3/hr
Taking 15 minutes Retention Time, Total volume of storm water = 1,140.13/4
=285.03 m^3

Taking the effective diameter and depth of a Recharge tank 4.5 m and 3 m respectively,
Volume of a single Recharge pit = π r^2h = 3.14 × 2.25 × 2.25 × 3 = 47.68 m^3

Rainwater Harvesting Pits calculated = 285.03/47.68 = 5.9
Total No. of rainwater harvesting pits proposed = 9 (6 Proposed + 3 Existing)

Parking Details

Adequate provision will be made for car/vehicle parking at the project site. There shall also be adequate parking provisions for visitors so as not to disturb the traffic and allow smooth movement at the site.

Proposed project will be consists of Multilevel car parking, covered parking and open parking. The parking space criteria and area requirement provided are summarized in the below tables. Parking details are designed as per Delhi Building Bye Laws.

For Existing Area

Table 13-Parking Required (Existing)

For Hospital Building (Existing)	
Parking required as per the old norms of MPD 2001	0.67 ECS/100 m^2 of FAR
Parking required	0.67/100 × 26,396.72 = 178 ECS
For Residential Building (Existing)	
Parking required as per the old norms of MPD 2001	1.33 ECS/100 m^2 of FAR
Parking required	1.33/100 × 10,42894=139 ECS
Total Parking Required	**178+139 = 317 ECS**

Table 14-Parking Proposed (Existing)

For Hospital Building (Existing)	
Proposed area in open	4,232 m^2
Parking required for 1 ECS in open area	23 m^2
Parking Proposed	4,232/23 = 184 ECS
For Residential Building (Existing)	
Proposed area in open	889 m^2
Parking required for 1 ECS in open area	23 m^2
Parking Proposed in surface	889/23 = 39 ECS
Parking Proposed in covered garage	96 ECS
Total ECS Proposed	**319 ECS**

For Proposed Area

Table 15-Parking Required (Expansion)

For Hospital Building (As per the EIA guidance Manual from MoEF& CC)

Parking required (for Medical facility) No. of Bed Proposed Parking required (Public-Semi-Public offices)	1 ECS/5 beds = 368 beds = 83 ECS 1 ECS/50 m^2 of FAR = 13,466.59/50 = 269 ECS
Parking Required as per MoEF&CC	= 352 ECS
For Hospital Building (As per DDA)	
Parking required	1 ECS/50 m^2 of FAR
Parking required	**13,406.59/50 =268 ECS**

Table 16-Parking Proposed (Expansion)

For Hospital Building	
Proposed area in open	1,448 m^2
Parking required for 1 ECS in open area	23 m^2
Parking Proposed (surface)	**1,448/23 = 63 ECS**
Parking area in MLCP	7,165.6 m^2
Parking required for 1 ECS in MLCP	16 m^2
Parking Proposed in MLCP	**7,165.6/23 = 448 ECS**
Total ECS Proposed	**511 ECS**

Power Details

The power shall be supplied by BSES Delhi. The total connected load for existing area is 1,313 kVA (1182 KW) and for the expansion area is 1,501 kVA (1351 kW). Power shall be supplied by transformers of total 3000 capacity (3*1000 kVA each)

D.G. set details

In case of power failure, 3 DG sets of total capacity of 2,250KVA (3*750 kVA each)for will be provided as power back-up for building.

The DG sets will be provided with acoustic enclosure. Adequate stack heights of D.G. Sets will be provided as per the stipulated guidelines of Central Pollution Control Board (CPCB) to facilitate natural dispersion of exhaust gases as the calculation for the stack height is given below considering height of the building:.

The project will adopt a systematic approach for solid waste collection and disposal. Solid waste generated from the project will be collected properly and will be managed as per MSW Rules, 2000 amended in 2016.

The domestic solid waste will be generated by the occupants (Residential Apartments, hostel, dormitory) Visitors, Patients and staff pertains to the two categories, Bio-degradable and Non-biodegradable. These solid wastes will be collected separately by putting three types of separate bins at the source of generation. For the biodegradable waste yellow bins will be provided, for the recyclable waste black bins and for the non-recyclable waste red bins will be provided. It is estimated that maximum solid waste generation would be about 2,043 kg/day for existing and expansion; Following are the solid waste generation rate has been considered as is given in Table 17 and Table 18: Calculation of Solid Waste Generation (Expansion Area)

Table 17: Calculation of Solid Waste Generation (Existing Area)

Category	Counts (heads)	Waste Generated (kg/day)
Hospital & Residential Building's Waste		
Patient	200 @ 1.5 kg/day	300
Regular staff • Doctors/Administrative Staff/Nurses/Ward Boys/ Attendants/ Housekeeping & Engineering Staff	454 @ 0.25 kg/day	113.5
Attendants	200 @ 0.5 kg/day	100
OPD	800@ 0.15 kg/day	120
Residential		
Residents	646@0.5kg/day	323
Kitchen staff	10@0.25kg/day	2.5
Visitors	52@0.15kg/day	7.8
Total Waste Generated		**966.8 kg/day**

Bio-Medical Waste - _____ kg/day

Table 18: Calculation of Solid Waste Generation (Existing + Expansion Area)

Category	Counts (heads)	Waste Generated (kg/day)
Hospital and Residential Building's Waste		
Patient	568 @ 1.5 kg/day	852
Regular staff	734 @ 0.25 kg/day	183.5

• Doctors / Administrative Staff / Nurses/Ward Boys / Attendants/ Housekeeping & Engineering Staff		
Attendants	568 @ 0.25 kg/day	142
OPD	1400@ 0.15 kg/day	210
Residential		
Residents	646@0.5kg/day	323
Kitchen staff	10@0.25kg/day	2.5
Visitors	52@0.15kg/day	7.8
Landscape Waste (5.09 Acre)	646@0.5kg/day	323
Total Waste Generated		**2043.8 kg/day**

Bio-Medical Waste (10 % of waste generated from beds) - 85 kg/day

Following arrangements will be made at the site in accordance to Municipal Solid Wastes (Management and Handling) Rules, 2016.

Bio-Medical Waste

Collection and Segregation of bio medical waste

- Collection of bio medical waste will be done as per the bio Medical waste (Management and Handling) rules 2016.
- General health-care waste will be collected the stream of domestic refuse for disposal.
- Sharps will be collected together, regardless of whether or not they are contaminated. Containers will be puncture-proof (usually made of metal or high-density plastic) and fitted with covers.
- Highly infectious waste will be, whenever possible, be sterilized immediately by autoclaving. It therefore needs to be packaged in bags that are compatible with the proposed treatment process: red bags, suitable for autoclaving, are recommended.
- Small amounts of chemical or pharmaceutical waste will be collected together with infectious waste.
- Waste will be collected and stored in colour coded bins.

Treatment of Waste

Treatment options for bio medical waste are
Here are mainly five technology options available for the treatment of bio-medical waste. They can be grouped as follows.

- Chemical processes
- Thermal processes
- Mechanical processes

of existing trees is 251, total number of trees to be retained is 240, trees to be cut are 11 and new trees proposed are 350.

- The plant species will be selected on the basis of Urban Standard Plantation norms and CPCB guidelines.
- Landscape Details are given in Annexure 6-Landscape Plan

Table 19

Annexure 6-Landscape Plan

Table 19: Landscape Area Details

Particulars	Details
Plot area	40,043.25 m^2
Landscape area Proposed	12,873.17 m2 (32.13 % of Plot Area)
As Per MoEF Guidelines	One tree per 80 m^2 of total area out of which minimum 50 % to be in the category of evergreen trees.
Trees Required	40,043.25/80= 501 Trees
Number Of Trees Proposed	**350 Trees (240 retained + 110 proposed)**

Table 20 : List of Trees

S.No.	Botanical name	Local name
1.	*Azadirachta indica*	Neem
2.	*Cassia fistula*	Amaltas
3.	*Delonix regia*	Gulmohar
4.	*Bauhinia purpurea*	Kachnar
5.	*B. Variegata*	Kachnar
6.	*Lagerstroemia flosreginae*	Pride of India
7.	*Grevillea robusta*	Silk oak
8.	*Callistemon lanceolatum*	Bottle Brush
9.	*Anthocephalus cadamba*	Kadam
10.	*Polyalthia longifolia*	Ashok
11.	*Putranjiva roxburghii*	Putrajiv
12.	*Sterculea alata*	Coconut Buddha
13.	*Bassia Latifolia*	Mahua
14.	*Alstonia scholaris*	Devil Tree
15.	*Michelia champaca*	Champak
16.	*Terminalia arjuna*	Arjun
17.	*Ficus retusa*	Ficus
18.	*Saraca indica*	Ashoka
19.	*Dalbergia sissoo*	Shisham
20.	*Maduca latifolia*	Madhu
21.	*Ficus infectoria*	Pilkhan