Annexure - 1

EXECUTIVE SUMMARY

1.0 ABOUT THE PROJECT:

- The proposed project is a redevelopment project on property bearing c.s. no. 2/358,2A/358 at Malbar Cumbala Hill division situated at Nepean Sea Road & L.D. Ruparel Road, Mumbai
- ❖ The project site falls in Jurisdiction of MCGM.
- The site is in residential zone as per MCGM (Development Plan Department). Majority of the land surrounding the site is residential.
- The terrain of the project site & its surrounding area is plain. The site is devoid of any rocky outcrops and is not covered by any notified forests. The project plot has very sparse vegetative cover of common & local shrubs.
- The plot area of proposed project is 1172.71 sq.mt., which is in CRZ II area on the landwards side

2.0 PROJECT DETAILS:

Name and Location	"Proposed redevelopment on property bearing c.s. no. 2/358,2A/358" at Malbar – Cumbala Hill division situated at Nepean Sea Road & L.D. Ruparel Road, Mumbai					
Total no. Of workers during the construction	150					
Project cost	Total Cost of the project 42 Cr only.					
Project infrastructure	Proposed Building details: Sr. Component Details No.					
•	1	Proposed	1 st Basement + Lower ground floor + Upper ground floor + 1 st to 5 th floor: Podium + 6 th floor: Service floor + 7 th to 20 th floor: Upper Residential floors			

Project Area Details			_					
			Sr. No.	Compor	nents		Details	
			1	Total Plo	ot Area		1172.71 sq.mt.	
			2	Deduction	ons		419.52 sq.mt	
				Net Plot	Area		753.19 sq.mt	
			3	Permissible FSI			3.00 & 1.33	
			4	Permissible Built up Area			3417.56 sq m	
			5	FSI Consumed			2.89 sq.mt	
			6	Total Built up area as per FSI			4,582.68 sq.mt	
			7	Total Built up area as per Non FSI		5,824.59 sq.mt		
			8	Building	Building Height		69.90 mtrs	
			9	Parking a	area		4531.16 sq.mt.	
Vehicular Parking	Parki	ng Sta	itement:					
Details			Required parki				Parking Area on stilt	
			39 Nos.			Sq.mt. 4531.16 Sq.mt.		
Water Requirement &	Water		iwam ant f	ou the nuc	ject and sourc			
Sources	vv ater	requ	n ement 1	or the pro	ject and sourc			
		Sr. No		iption Quantity of water required KLD		Source		
,		1.	-	uction Phase				
		a.	Domes		12 10-20 (Depending upon the		M.C.G.M	
		b.	Constr	uction			Water Tanker	
			activity	y				
	ĺ				construction			
					activity)			
		2.						•
		a.	Domes		13		M.C.G.M	
		b.	Flushi	ng	6	, 7	Freated sewage from STP	
	-	vage Generation:						
Sewage generation	Sewag	ge Ger	ici ation.					
Sewage generation	Sewag	ge Ger	teration.) wantity of			
Sewage generation	Sewag Sr. No		cription		Quantity of Sewage erated (KLD)	Treatmo	ent/ Disposal	
Sewage generation	Sr.	Desc	eription		Sewage	The se	ent/ Disposal wage generated wil to existing municipal	

Sewage Treatment								
Power		Sr. No.	Description	Power requirement (Source: MSEB)				
		A	Construction phase	10 KW				
		В		Connected load	Maximum demand	D.G sets & Capacity		
			Operational phase	1200 KW	480 KW	1 DG Set of capacity 200 KVA		
Energy Saving practices	A E N	Architec Efficient Maximiz	tural Design: use of air-conditioning the the use of natural lightin			Energy Saving:		
	S N a F I	Solar pandost of ppliance RCC root Double in All the e	Saving Practices: tels will be installed the common area lightes like CFL, LED lamps are f slab is proposed to minimulated glass will be use external walls will be 4-in is envisaged	nd Solar lighting nize the heat gai ed	g panels will be in and internal	e provided in open area saving of the electricity		
Gaseous emissions			will be used only during ed. Hence pollution load					

Solid waste:

Solid Wastes During Construction Phase: -

The total quantity of solid waste is expected at 25 Kg /day. Out of which 18 Kg /day will be biodegradable and 7 Kg /day will be non-biodegradable garbage.

Solid Wastes During Operation Phase: -

The total quantity of solid waste is expected at 67 Kg/day. Out of which 18.9 Kg/day will be non-biodegradable and 48.1 Kg/day will be biodegradable garbage.

Disposal: -

Total Waste generated will be handed over to.

3.0 EXISTING ENVIRONMENTAL SETTING, IMPACT IDENTIFICATION AND ASSESSMENT:

3.1 ENVIRONMENTAL SETTING:

> Site Topography:

Proposed redevelopment project is on property bearing c.s. no. 2/358,2A/358 at Malbar – Cumbala Hill division situated at Nepean Sea Road & L.D. Ruparel Road, Mumbai

Geographical location of site:

Latitude

18°57'22.89"N

Longitude

72°47'58.49"E

Tehsil

Mumbai

District

Thane

State

Maharashtra

> Land use pattern:

The plot is situated on c.s. no. 2/358,2A/358 at Malbar – Cumbala Hill division, Mumbai. As per the survey remark, the plot under reference is affected by C.R.Z. and it falls under C.R.Z. II zone. The land under reference is situated in Residential zone as per Development Plan (DP) remarks. Majority of the land surrounding the site is developed residential.

Major Infrastructure around project area is as given below;

Transport Facilities:

- Road access: Nepean Sea Road & L.D. Ruparel Road, Mumbai
- Nearest Railway Station: Charni Road Railway Station which is away by 4 km approximately.
- Nearest Airport: Chhatrapati Shivaji International and Domestic Airport Area, Vile Parle, Mumbai, Maharashtra at 19.5 Km distance approximately
- Expressways: Western expressway is about 30 km and Eastern expressway is about 20 km.
- Bus Depot: Dariya Mahal bus stop with 1 km distance

Hospitals:

• St. Elizabeth Hospital- 1.1 km approximately

Fire Brigade:

• Fire & Emergency Station: Gowalia Tank Fire station at about 2.5 km

Police Station:

• Malabar Hill Police Station: 1.20 km approximately.

This redevelopment is mainly meant of residential construction. Due to construction activity, there shall some impacts on water and air environment, power requirement but it shall be mitigated by providing proper pollution control facilities. Power consumption shall be reduced by using energy saving practices. Impact on air quality shall be reduced by green belt development. The possible impacts and mitigation measures are discussed below.

3.2 ENVIRONMENTAL IMPACT IDENTIFICATION AND ASSESSMENT:

Air Pollution Assessment:

Air Pollution Control:

Sources of Air Pollution during Construction Phase: -

During construction phase, Dust, Particulate Matter is the main pollutant, which may be generated during construction activities. But as the building is at advance stage of construction, dust generation is not anticipated as a major source. Other emission sources are intermittent and include emissions of SO₂, NO_x and CO from materials transport of heavy vehicles on site etc.

Mitigation Measures: -

Precautions which would be taken to reduce dust generation during construction phase are mentioned as follows:

- 1. Proper upkeep and maintenance of vehicles
- 2. Offsite fabrication of structural components
- 3. Tarpaulin Dust covers will be provided on trucks that would be used for transportation
- 4. of materials prone to fugitive dust emissions.
- 5. Water sprinkling on ground and new construction will be done at regular intervals to
- 6. reduce spreading of dust particles.
- 7. Use of RMC instead of preparing concrete at site
- 8. Vehicles with valid PUC
- 9. DG sets: CPCB approved low sulphur fuel.

Sources of Air Pollution during Operational phase: -

- 1. The gaseous emissions from vehicles
- 2. Emissions from DG sets while in operation only during power failure

Mitigation Measures: -

- 1. The traffic congestion will be avoided by proper parking arrangement and maintaining smooth traffic flow
- 2. Regular PUC checkup for vehicles
- 3. DG sets will be used only during power failure. In project area, hardly power cutting is occurred. Hence pollution load due D.G. Sets will be very much negligible.
- 4. CPCB approved DG sets only will be used.

- 5. Proper maintenance of DG sets shall be done and Low sulphur fuel shall be used
- 6. Tarpaulins will be used to cover trucks carrying debris
- 7. Using RMC to reduce air pollution

The proposed project will not have any direct impact on air environment after completion. To ease the traffic congestion project proponent will provide well organized parking arrangement within school premises.

> Noise Pollution Assessment:

Noise Pollution Control:

Sources of Noise Pollution during Construction Phase: -

During construction phase, sources of noise pollution will be due to operation of machinery like compressors, compactors, concrete plant, cranes etc. as well as transportation vehicles. This will cause nuisance to the occupants of the nearby area.

Mitigate measures: -

- Use of equipment generating noise of not greater than 90 dB (A).
- High noise generating construction activities would be carried out only during day time.
- Installation, use and maintenance of mufflers on equipment.
- Workers working near high noise construction machinery would be supplied with ear muffs/ear plugs.
- Proper upkeep and maintenance of vehicles
- Offsite fabrication of structural components

Sources of Noise Pollution during Operation Phase: -

No noise pollution will occur during operation phase except vehicular noise during drop and pick of school students.

Mitigate measures: -

The proposed project being construction project, the source of noise is mainly vehicular noise. The project proponents have proposed to provide well organized parking arrangement, which would help in reducing noise levels due to vehicular movement in the parking area. Provision of green belt around the Site which will reduce air pollution and also act as noise buffer

> Solid Waste Handling, Collection & Disposal:

During Construction Phase: -

Solid waste would be generated mainly due to excavation in form of rubble and soil. This soil and rubble would be used for levelling of ground. Solid waste will be disposed as per the local rules and for that Solid waste management certificate are obtained from relevant departments.

The solid waste generation due to workers dwelling on the site will be handed over to M.C.G.M for safe disposal.

During Operation Phase: -

Total solid waste generated will be handed over to M.C.G.M for safe disposal.

Water Pollution Control: -

Construction Phase: -

The sewage generated will be discharged into existing sewer line.

Operation Phase: -

The total quantity of sewage that is generated in the existing project is discharged into the existing sewer line. RWH will be done during operation and will be used for domestic purpose.

4.0 GREEN BELT DEVELOPMENT:

Project proponents have proposed an avenue tree plantation, which includes planting of non-deciduous, shady trees of local species. Total 38 Nos. of trees shall be planted on ground along the periphery of plot.

5.0 PROJECT BENEFITS:

The proposed project falls under Redevelopment of Cess structure under DCR 33 (7). According to the Structural Audit Report by M/s Profile Structural Consultants in July 2014 the existing structure was notified as unsafe. The project will also accommodate tenants from the existing CESS building to a better environment which will enhance their standard of living. It could be seen that the overall impact on Socio-Economic Environment is positive and permanent in nature.

CONCLUSION

The project proponent M/s **Topvalue Real Estate Development Limited** seems to be safety conscious and alert about environment and social safety.

We may conclude as under:

- This project is mainly meant for residential redevelopment
- The proponents are following all the Fire fighting safety rules and regulations as prescribed by local authority and CFO regulations NBC CODE 2005.
- Fire hydrant System as per I.S code.
- Fire detection system as per requirements of Chief fire officer.
- Portable fire extinguishers of IS specification
- Alternate source of power supply / D.G sets only during power failure
- Adequate underground and overhead separate water storage tanks
- Building is designed to meet requirements of seismic zone III of Mumbai District
- Rain water harvesting is proposed
- Solid waste will be handed over to M.C.G.M for proper disposal
- Noise is expected to be on higher side during construction phase. In the operational phase it will be mainly due to the vehicular movement but will be maintained within the prescribed limits
- Overall positive social impact