

EXECUTIVE SUMMARY

REDEVELOPMENT OF RESIDENTIAL PROJECT

AT

**C.S. NO.17/866 OF WORLI DIVISION, PLOT
NO.7/17, KHAN ABDUL GAFFAR KHAN
ROAD, WORLI, MUMBAI-400018**

BY

MR. SACHIV SAHNI

1. INTRODUCTION TO PROJECT

After recognizing the need for proposed redevelopment of dilapidated structure to new residential building on the plot bearing C.S. No.17/866 of Worli Division, Plot No.7/17, Khan Abdul Gaffar Khan Road, Worli, Mumbai-400018, the same is now being proposed to be redeveloped by the Mr. Sachiv Sahani. The proposal involves demolition of the existing Ground Floor + 1st Upper Floor old dilapidated building structure, declared as dilapidated vide Notice under Section 354 of the Mumbai Municipal Corporation Act, dated 10.01.2019.

The developer has proposed redevelopment to new residential building of 1st to 3rd Upper Basement + Ground floor + 1st to 10th Parking floors + Upper stilt level for amenities + 1st to 31st upper floor level for flats/ rooms for residential use. Total 34 nos. of flats are proposed as PAP, 08 nos of flats are proposed as MHADA hand over flats, 03 nos. of flats as rehabilitation flats and 12 nos. of flats will be sale flats. The proposal has received MHADA NOC for 3.00 FSI or FSI required for rehabilitation of existing occupiers plus 50% incentive FSI, whichever is higher, dated 24.09.2019. The plot falls in Residential zone as per old DP as well as revised sanctioned DP (1993) and is not under any reservation as per old DP.

The plot falls within 500 mtr. of HTL of Arabian Sea and is in CRZ-II as per approved CZMP for Mumbai. The plot under reference is on landward side of existing Khan Abdul Gaffar Khan Road in existence prior to 19/2/1991 as seen from the approved CZMP of Mumbai as well as 1967 DP of the area and it attracts provisions of CRZ Notification 2011. Hence the work is permitted subject to the approval of CRZ clearance. Thus property attracts the CRZ legislation, which is reflected in CZMP plan.

1. DESCRIPTION OF THE PROJECT

3.1 NATURE OF THE PROJECT

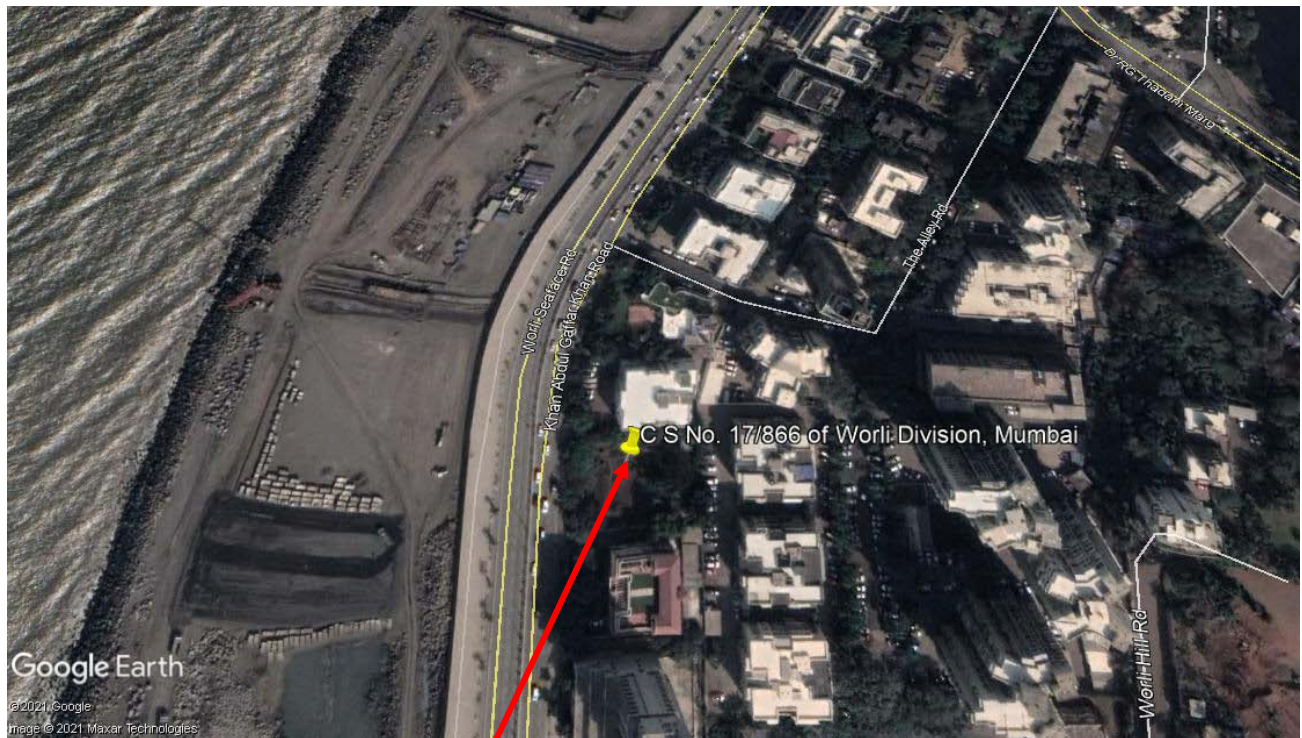
This is a proposed redevelopment of dilapidated structure to new residential building on plot bearing C.S. No.17/866 of Worli Division, Plot No.7/17, Khan Abdul Gaffar Khan Road, Worli, Mumbai-400018, in CRZ-II belt, as the same is situated within 500 mtr. from Arabian Sea. The plot under reference is on landward side of existing Khan Abdul Gaffar Khan Road in existence prior to 19/2/1991 as seen from the approved CZMP of Mumbai as well as 1967 DP of the area.

3.2 SIZE OF THE PROJECT

Total Area of the said plot is 1672.26 sq. mtrs. Cost of the Project is Rs. 305,00,00,000/- (Rupees Three Hundred and Five Crores Only) as per the valuation report.

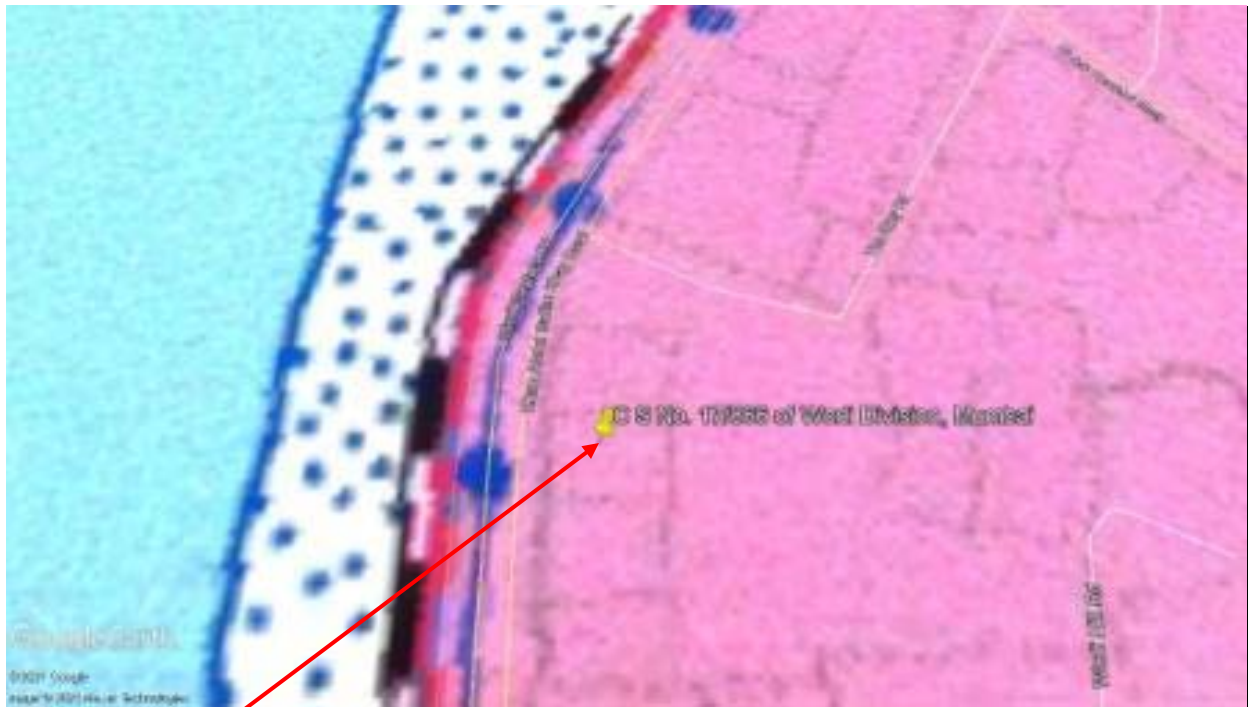
3.3 LOCATION

The C.S. No.17/866 of Worli Division, Plot No.7/17, Khan Abdul Gaffar Khan Road, Worli, Mumbai-400018, is in the southern part of the Mumbai city. The nearest railway station is Low Parel railway station located on western line at about 4.70 km from the site. All local trains ply at the frequency of about once per 3-4 minutes.



Google Earth Image of the site

CZMP Plan showing location of reference Plot



SITE UNDERREFERENCE

3.4 SITE DESCRIPTION

The site under reference is affected by CRZ-II zone and the property falls on landward side of the authorized existing Khan Abdul Gaffar Khan Road. The property attracts the CRZ legislation as per CRZ Notification- 2011. The development site does not fall or contain the environmentally sensitive areas as specified in the Coastal Regulation Zone notification.

Town / Tehsil	:	Mumbai
District	:	Mumbai City
State	:	Maharashtra
Latitude	:	19° 0'3.40"N
Longitude	:	72°48'42.72"E

3.5 PROPOSED DEVELOPMENTS

3.5.1 AREA STATEMENT

A)	AREA STATEMENT	SQ.MTS.
1)	Area of plot	1672.26 m ²
2)	Balance area of plot	1672.26 m ²
3)	Permissible FSI	4.00
4)	Total Permissible Floor Area	6689.04 m ²
5)	Proposed BUA	6689.04 m ²
6)	Total BUA Including Fungible (Permissible/Proposed after deducting deficit to Rehab)	9028.92 m ²
7)	Total Parking provided	97 Nos.

2.5.2 UTILITIES

The Utilities required during the construction phase are water, power, fuel and Labour.

i) **WATER:** (Expected Consumption – total 17 cum/day)

For worker - 7 KLD

For construction - 10 KLD

Note: The actual quantity of water may depends upon the actual construction requirement

Water Balance (Operation Phase)

Sr. No	Component/Head	Occupant load	Water Requirement m ³ /day		Remarks
			Domestic	Flushing	
1.	Total residential population	400	36	18	@ 90/45 lpcd
2.	Total non residential population	130	2.6	3.25	@ 20/25 lpcd
3.	Total Quantity of Water Required	60 CMD			For a total population 530 Nos. of people.

4.	Sewage generation	54 CMD	The sewage will be treated in an STP of 80 CMD (Approximated)
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Source: - Water will be available from Mumbai (MCGM) for domestic use and from Tanker for construction purpose.

ii) **POWER**

During Constructional Phase–

Connected Load: 150KW (Estimated)

During Operational Phase–

Component	Values
Maximum demand kW	1.00 MW
D.G. sets (for emergency back up during power failure)	1 DG of 500 kVA

iii) **FUEL**

DURING CONSTRUCTION PHASE

Estimated energy shall be used.

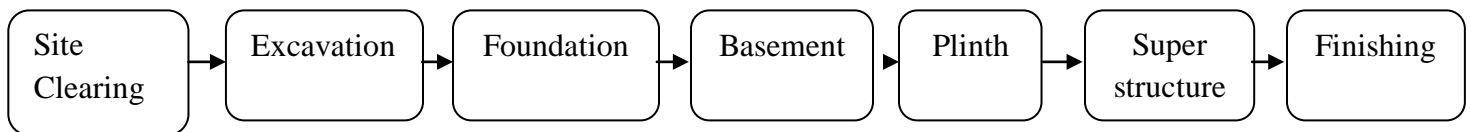
DURING OPERATION PHASE

Diesel will be required to run the D. G. Set in case of power failure, in emergency case only.

1. Storage: Diesel and oil will be stored as per guidelines from concerned authorities.
2. Fire and safety measures will be taken as per the guidelines from concerned authority.
3. All Safety and fire precautions will be followed.

2.6 CONSTRUCTION PROCEDURE

The outline of the construction procedure is described below schematically.



Note:

1. Parameters and Quality will be strictly adhered to as per the drawing approved by MCGM. Applicable regulations of government authorities will be followed.
2. Necessary safety precaution will be observed as per the guidelines during the construction phase.
3. Personal Protective Equipment (PPE) will be provided to the personnel involved in the construction activities.
4. Site barricading will be done to protect the surrounding area of the project site from nuisance /dusting.
5. All electrical connections & cables will be checked by authorized persons to ensure the safety of workers on field.
6. Water sprinkling will be done, wherever required to reduce the emission of fugitive in atmosphere. Jute barricading along plot boundary shall be provided to minimize noise level from construction activities.
7. The safety and security officers shall supervise the site.

3. ENVIRONMENTAL CONCERNS**3.1 AIR POLLUTION**

Fugitive Emissions i.e. Emissions from construction activities will mainly consist of dust. Movement of Heavy & light vehicles, for loading and unloading of Construction Materials, transporting people, will also add on to source of emissions.

3.2 AIR POLLUTION MITIGATION

Sr. No.	Source	Mitigation	
1.	Vehicle	i]	Vehicles coming to the site will be ensured to be in good condition having PUC.
		ii]	Public awareness to use Green Fuel will be done.
2.	Solid Waste	i]	Proper segregation and collection of waste will be ensured.
		ii]	Location of loading and unloading will be fixed.
		iii]	Good Housekeeping practices will be ensured at the premises.

3.	Construction Activities	i]	Noise / Dust nuisance preventions by barricading site up to 5.0 meter height.
		ii]	Water sprinkling on dry site, sand.
		Iii]	Construction equipment with regular maintained

3.3 WATER POLLUTION

1] **Use:** - Water for domestic purpose will be procured from MCGM i.e. drinking water for staff and laborers working on the field whereas bore well water/Tanker water will be used for various constructions activities like, Concreting, Plastering, Flooring & Finishing etc.

2] **Effluent:** - There will be no generation of effluent from construction activities as the water used for concreting; Plastering, Flooring and Finishing etc. will get evaporated during drying or curing time. All the construction activities are physical in nature. The Domestic Effluent will be generated due to the persons working on the site who will require water for drinking, cleaning, etc.

Sewage generated during operation phase is estimated to 54 CMD which will be treated in the Sewage Treatment Plant. The treated water will be used for non domestic purposes such as gardening, flushing etc and excess treated water shall be discharged to Municipal drain.

3] **Treatment & Disposal:** - The Domestic Effluent generated in construction phase will be disposed off in existing MCGM Sewer.

4] **Rain Water Harvesting:** - The Plot was occupied by a declared dilapidated building and the same has been demolished due to its ruinous condition. A building is now proposed to be redeveloped. Roof rain water harvesting is proposed in the project. One rain water harvesting tank is proposed for reuse of rain water rather than flowing to the drain.

5] **Storm Water Discharge:**

Storm water drains will be constructed for proposed facility as per the norms.

3.5 NOISE LEVEL MITIGATION

Sr. No.	Source	Mitigation
1.	Near Residential Areas	i] Site Barricading will be done to protect the surrounding area. ii) Construction Activity will be carefully planned and carried out accordingly.
2.	Nearby Traffic	i] All the vehicles coming to the site will be ensured in good condition, having Pollution under Check (PUC).
3.	Construction Equipments	i] Regular maintenance to all the equipment at proper interval for efficient working ii] Appropriate PPE to be provided to workers

1] It is evident from the nature of operation (i.e. Construction) that the Concentration of suspended particulate matter would be higher.

2] Control of Emission: - Proper precaution will be taken to reduce the particulate matter by water sprinkling on the dry site area, barricading the periphery by corrugated tin Sheets of 5.0 mtrs height to protect the surrounding area from dusting. Also it will be ensured that the vehicles will carry PUC certificate. To minimize air pollution efforts shall be made by use of equipments, which are electric power driven.

3.6 SOLID WASTE MANANGMENT DURING OPERATIONAL PHASE

1] The solid waste generated during operation phase is proposed to be segregated as biodegradable & non-biodegradable waste within the premises.

2] Solid waste transfer station is proposed for collection, sorting, segregation, storage & transportation of biodegradable and non-biodegradable waste.

Calculation for quantum of solid waste to be generated in the building:

- Total no of residential population = 400 persons
- Generation of Total waste per person of residential population = 0.5 kg/ capita per day (as per provisions of NBC 2016, Part 9 section 3 under the heading As per assessment of per capita Waste Quantity – a) Residential Refuse : 0.3 to 0.6 kg/ capita per day)

- Thus total solid waste generation, for residential population will be 400×600 gms/person/day = 240.00 Kg
- Total no of non- residential population = 130 persons
- Generation of Total waste per person of Commercial population = 0.2 kg/ capita per day (as per As per assessment of per capita Waste Quantity – b) Commercial Refuse : 0.1 to 0.2 kg/ capita per day, of NBC 2016)
- Thus total solid waste generation, for Commercial/ Non Residential population will be 130×200 gms/person/day = 26 Kg
- Thus solid waste generated in the project will be 266.00 kg/day.
- Generation of organic waste = 40% of total waste (as per guidelines in As per assessment of per capita Waste Quantity, of NBC 2016)
- So total organic/Wet/ Bio degradable waste generated by the occupants = $266 \times 40\% = 106.40$ Kg by all occupants of the building.
- Total inorganic/Dry/ Non biodegradable waste generated will be 159.60 kg/ day.

Measures for treatment of Solid Waste Generated on the site during operation phase

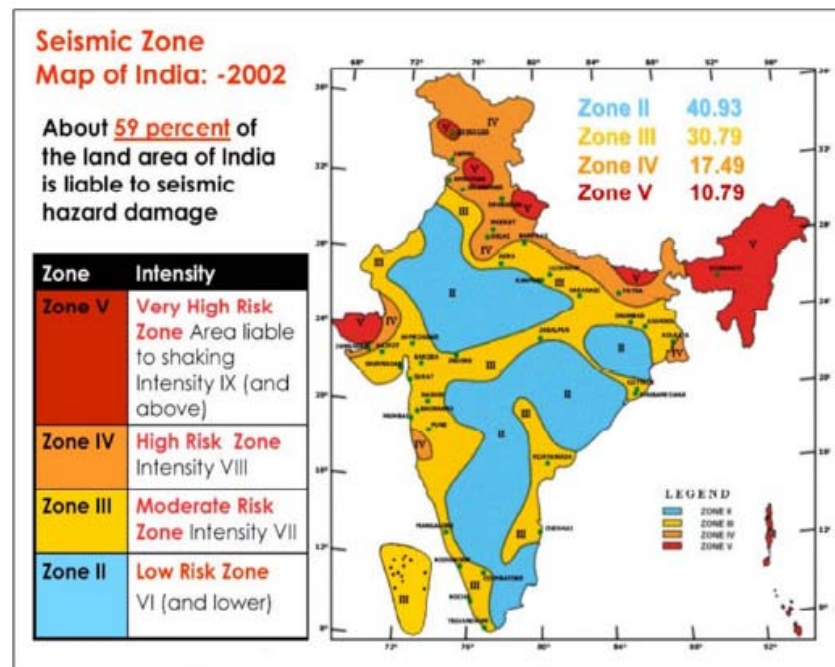
- Segregation of non biodegradable and biodegradable garbage on site.
- Bio degradable garbage: Treatment by means of composting/Organic Waste Convertor (OWC).
- Non- biodegradable garbage: Segregated into recyclable and non-recyclable waste.
- Recyclable waste: Handed over to vendors for recycling.
- Non-recyclable waste: Handed over to M.C.G.M.
- STP Sludge: Used as manure.
- The debris generated due to demolition and excavated materials have been disposed off to authorized Landfill sites with permission from M.C.G.M.

3.7 SEISMICITY:

Seismic zone map was initially based on the amount of damage suffered by the different regions of India because of earthquakes. Following are the varied seismic zones of the nation,

- Zone - II: This is said to be the least active seismic zone.
- Zone - III: It is included in the moderate seismic zone.
- Zone - IV: This is considered to be the high seismic zone.
- Zone - V: It is the highest seismic zone.

Proposed project and Study Area comes under Seismic Zone III.



4. PROJECT SCHEDULE AND COST ESTIMATES

The Proposed Project is redevelopment project and will be started as soon as required government NOC's and CRZ Clearance is received to start the work.

5. TRAFFIC MANAGEMENT

5.1 CONSTRUCTION PHASE

- Storage and Godown area will be properly identified, as per requirement.
- The area for loading and unloading will be located at proper demarcated location in the premises.
- Thus the traffic management on the project site will be easily and smoothly monitored without any hindrance to the regular flow of traffic on the main road.

5.2 OPERATIONAL PHASE

- About 97 cars are expected to be accommodated in the premises. The parking space will be provided in Three Basements + 1st to 10th Upper Floors. There is ample space in the building from west side gate for entry and exit of cars, thus maintaining the smooth movements of cars on the plot.

6. ENVIRONMENTAL, HEALTH AND SAFETY

6.1 SAFETY MEASURES ON SITE

1. Parameters and Quality will be strictly adhered to as per the drawings approved by MCGM.

2. Necessary regulations of government authorities will be followed.
3. Necessary safety precaution will be observed as per the guidelines during the construction phase. Appropriate Personal Protective Equipments (PPE) will be provided to all the personnel involved in the construction activities.
4. Site barricading up to height of 5.0 mtr will be done to protect the surrounding area of the project site from nuisance/ dusting.
5. All electrical connections & cables will be checked by authorized persons to ensure the safety of workers on field.
6. Water sprinkling will be done, wherever required to reduce the dusting in atmosphere.

7. **BENEFITS OF THE PROJECT**

- It will provide employment opportunities to the local people in terms of labour during construction and services personnel during operational phase.
 - Modern sanitation and infrastructure facilities will have minimal impact on living condition of local people.
 - The project will improve living standard and welfare of the area and local people.
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