पर्यावरण समिती, पुणे महानगरपालिका जा.क्र:-आय ई सी /समिती/ - ५ दिनांक:- १३-१०-२०१७

मा. कार्यकारी अभियंता बांधकाम परवाना विभाग पुणे महानगरपालिका

विषय : प्रस्तावित प्रकल्प " राजगृही रेसिडेन्सी " साठी पर्यावरण अटी समाविष्ट करणेबाबत.

संदर्भ : १)पर्यावरण समिती बैठक क्र. २, दि. ०४-१०-२०१७. २) पर्यावरण कक्ष जा. क्र. पर्या-२६ दि. ०४-१०-२०१७.

शासन निर्णय क्रमांक टीपीएस -१८१६/प्र क्र ४४३/१६/ वियो /पुणे व कोंकण विभाग / नवि-१३, दि २८-६-२०१७ अन्वये प्रस्तावित प्रकल्प " राजगृही रेसिडेन्सी ", स. न. ६३/१/१/, ६३/१/२ व ६३/२ कोंढवा, बाबत पर्यावरण कक्ष, पुणे म. न. पा. यांनी तपासणी करून Category-3 अंतर्गत पर्यावरण समितीकडे शिफारस केली आहे.

दि. ०४-१०-२०१७ रोजी पर्यावरण समिती च्या बैठकीमध्ये झालेल्या चर्चेनुसार पर्यावरण अटींस अनुसरून सदर प्रकल्पास शिफारस करण्यात आली आहे.

तरी वरील शासन निर्णयानुसार प्रस्तावित प्रकल्प " राजगृही रेसिडेन्सी " ला बांधकाम परवानगी देतांना सोबत जोडलेल्या अटींचा समावेश करण्यात यावा.

कळावे,

पर्यावरण अधिकारी तथा सदस्य सचिव, पर्यावरण समिती पुणे महानगरपालिका

प्रत:

मे. वेलबिल्ड मर्चंट्स प्रा. लि. स. न. ६३, व्ही आय. टी. होस्टेल , शांतीनगर सोसायटी गंगाधाम - कोंढवा रोड पुणे – ४११०४८

सोबत पान क्र. 1 ते 23



Integration of Environmental Conditions for Project Category- 3

As per Directives of Government of Maharashtra, Notification No. TPS-1816 / CR443/16/DP/Pune&Konkan/UD-13 Dated 28/6/2017

Name of Project: "Rajgruhi Residency"

S.No. 63/1/1, 63/1/2, 63/2, Kondhwa, Pune

- Ref: 1) Recommendation by Environment Cell of PMC Parya-26 dated 04-10-2017.
 - 2) Environment Committee meeting No. 2 dated 04-10-2017.

The proposal was considered as per Notification No. TPS-1816 / CR443/16/DP/ Pune &Konkan/ UD-13 Dated 28/6/2017, by the Environment Cell of PMC and recommended the project for prior Integration of Environment Conditions to Environment Committee of PMC. The Environment Committee has recommended the Integration of Environmental Conditions into the project. The project may be put up for further building permission process of PMC.





Consolidated Statement of Project For Recommendation To Environment Committee (Category 03)

(As per Directives of Government of Maharashtra ,Notification No TPS-1816 CR443/16/RP/Directive /UD-13 issued under Section 154(1) of Maharashtra Regional and Town Planning Act 1966) Brief Information Submitted by M/s Wellbuild Merchants Pvt. Ltd.as-

		Basic Information	
1.		Previous EC dated on 10/12/2015	Revised Application
2.	Name Of Project	"Zodiac Residency"	"RajGruhi Residency"
3.	Name of Project	M/s Wellbuild Merchants Pvt.	M/s Wellbuild Merchants
Γ.	Proponent, address &	Ltd.	Pvt. Ltd.
	Email Id	• Name :Mr. Yuvraj Sitaram	Name :Mr. Yuvraj Sitaram
	Ellian Id	Dhamale	Dhamale
	1	• Address: S. No. 63, VIT Hostel	• Address: S. No. 63, VIT
		(RajGruhi Residency) Near	Hostel (RajGruhi
1		Shantinagar Society,	Residency) Near
		Gangadham-Kondhwa Road,	Shantinagar Society,
		Pune-48.	Gangadham-Kondhwa
		• Email ID	Road, Pune-48.
		:yuvraj.dhamale@yahoo.com	• Email
		Mobile Number:8888322222	ID:yuvraj.dhamale@yahoo.
			com
			Mobile Number:8888322222
4.	Name of Consultant,	Dr. Prashant Banne & Mr. Sundar	Name: Mr. Sundar
	Contact and & Email id	Jagadale .	Jagadale/Miss Rupali
		M/s. Saitech Research &	Chandrekar
	*	Development	M/s JV Analytical Services
		Organization	Address:40/A,
		Address; Plot No. 16B, Banai-	SamayBuilding,BhauPatil
		Mahipati Nivas,	Road, Bopodi, Pune. 411020
		Aptenagar, Near new vashi naka,	Tel No +91-20-
		Kolhapur – 416 001	65108506/9822052142
		Tel No +91-20-65108506	Mail id
		Mail id:	:enviconmail@gmail.com
	•	enviconmail@gmail.com	enviconmail@rediffmail.com
	1	enviconmail@rediffinail.com	jvlabpune@gmail.com Sr. No. 90 in List 'A' of
5.	Accreditation of	Sr. No. 129 in List 'A' of O.M.	
	consultant (NABET/QCI	of MoEF,	O.M. of MoEF, GoI, New Delhi Dated 08/08/2017
	Accreditation)	GoI, New Delhi Dated	Demi Dated 08/08/2017
		05/12/2015/ Sr. No.72, Dated	
	1 7 7	08/01/2015 NA	Yes
	Is Environmental	I NA	SEAC- III- 2014/C.R. 194/TC-
	clearance obtained		3
	earlier	,	Dated 10/12/2015
	If yes (Details)	S. No. 63/1/1, 63/1/2 & 63/2,	S. No. 63/1/1, 63/1/2 & 63/2,
	Location of the project	S. No. 63/1/1, 63/1/2 & 63/2, Kondhwa, Pune	Kondhwa, Pune
	Taluka Village RCH4	Kondiwa, rune	ixonunwa, i une
	Village RUMA		

Migh

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8.	,	The state of the s		
<i>.</i>	Note on the initiated	Wing R 12174 2		XXII
	work (If applicable)	Wing - B: 12174 m ²		Wing - A: 19264 m ²
		Total A + B = 31438 m	2	Wing - B: 12174 m ²
		(As per previous EC da	tod on	Total A + B = 31438 m^2
		10/12/2015) (after gran	t of EC	(As per previous EC dated
	LOI/NOC from	anter gran	torEC)	on 10/12/2015)
	MHADA/Other	Not Applicable		1
	approvals (If Applicable))		. NA .
	Total Plot Area(sq.m.)	18000.00 m ²		
	Deductions	6866.76 m ²		18000.00 m ²
		0000.70 III		6723.25 m ²
	Net Plot area in sqm	11133.24m ²		
	Permissible FSI	21397.24m ²		11276.75 m ²
	(Including TDR etc.)	21397.24m ²	,	$35079.20 \text{ m}^2 + (170.32 \text{ m}^2)$
	(melading 1DK etc.)			club house)
	Proposed Built up Area			$= 35249.52 \text{ m}^2$
	(FSI & Non FSI)	56950.7m ²		72032.18 m ²
	(1.21 % Non FSI)	(FSI Area 20795.93 m ² +N	IONI Bar	$(FSI - 35078.27 \text{ m}^2 + (170.32)$
		Area 36155.31 m ²)	ION FSI	m^2 club house)= 35248.59 m^2
18.9	Taki			Non - FSI - 36783.59 m ²)
	Total ground	4802.60 m ²		3020.40 m ²
	coverage(m2) & its	(26.68 % of total Plot Area		16.78% of Total Plot area
	%(Note: Percentage of	18000.00 m ²)		(18000.00 m^2)
	plot not open to sky)			26.78 % of Net Plot area
-				(11276.75 m^2)
	Estimated cost of the	129 cr		158 Cr.
	project			136 Cr.
-]	Court cases pending if	No		No
	any			140
	No. of building & its confi Total Buildings = 3	iguration (s):	(s):	uilding & its configuration uildings = 4
	Name of Wing	No. of Floor	Name Wir	No of The
- 11			· Wing	- A 4 P +Amenity+20Fl
- 11	Wing - A	3P+Amenity+17	6	11 +1 Amenity+20FI
			Wina	D 4 D 14
- 11	Wing - B	20.1	Wing	
- 11	Willia - B	3P+Amenity+20		
11				
\parallel	Wing - C	3P+Amenity+17	Wing	
L				F1
	-		Wing -	D 4P +Amenity+20 F1
IN	Number of tenants and			
S	hops	Total Tenements - 210 No	T	otal Tenements -352 Nos.
				CO2 1103.
re	esidents usels 0 Me	Residential Users: 1050 N	os. To	otal Users:1760 Nos.
10	esidents users D Me	" "		
	12/22 C	N		
	17/ 550 /51			A TOTAL STREET
	- S			ATTIVE SAME
	3 - 25		TIT	
	1-276/	MI.Y.	4 w	18/ 181

पूर्ण म्युनिसिपल कॉपोरेशन क्रा. १९५०

~ .	T		* EST 1950				
21.	Tenant density per hectare	250					95.55
22.	Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m				24 M w	vide DP road
23.	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12 m					9 m
24.	Existing structure(s) (as on date of application)		dings- Boys s Hostel & Admin 2 m²	1	No	t Applicab	le
5.	Details of the demolition with disposal(Ifapplicable)	3 Nos. Build Girls Hostel 9862 m² 5917 Cu.M-	lings- Boys Hoste & Admin Block - Debris will be to Demolition	1,	No	t Applicab	e .
6.	Total Water Requirement	Residential: Source: Pune Corporation	Municipal		Sou	sidential: arce: Pune l poration (F	
		During Fresh Water	g dry season 94.5m³/day(O ne Time)	1	S r. N o	Durin	g Dry Season
		Recycled Water (Flushing)	55.25m³/day		1	Fresh Water	158.4m³/da y(One Time)
		Recycled Water (Gardening)	8.00m³/day		2	Recycle d Water (Flushin g)	79.2m³/day
		HVAC Makcup Total Fresh water	NA		3	Recycle d Water (Gardeni ng)	12 m³/day
		Requireme nt	149.75m³/day		4	HVAC Makeup	NA
		Excess treated water	81.78m³/day		5	Total Fresh water	249.6m³/da
		Swimming Pool	NA		4	Require ment	,
		Fire fighting	200m ³		6	Excess treated water	122.64m³/d ay
	RACHAN	During V Fresh Water	Wet season 94.5m³/day (One Time)		7	Fire fighting (Cum)	300 m ³

- A-wh

10 PM	स्त्रागण व म्युनिसिक गॅक्पेरेशन १ १९५०	(4)
1/3/100	1950*	

	10501 31110				-		
	1050 * 31110	Recycled Water (Flushing)	47.25m ³	¹ /day	S r.	During	g Wet Season
		Recycled Water (Gardening)	0.00 m ³ /	/day	N o		158.4m³/d
		HVAC Makeup Total Fresh	NA		1	Fresh Water	ay (One Time)
		water Requiremen t	149.75n y	n ³ /da	2	Recycle Water (Flushin	d 79.2m³/da
		Excess treated water	89.78m ³	³/day	3	Recycle Water	NA
		Swimming Pool	NA			(Garden	.1
		Fire fighting	200m ³		4	HVAC Makeup	NA
					5	Total Fresh Water Require ent	237.6 m³/day
			,		6	Excess treated water	134.64m³/ day
					7	Fire fighting (Cum)	300 m ³
27.	Details about Swimming pool	NA			NA		
						opograp	hy And
				99.86		inage	99.860 m
1.	Highest Contour						94.100 m
2.	Lowest Contour			94.10			5.760 m
3.	Slope			5.760	111		
4.	Ratio			1:46 576.00	V 00000		1:46 576.00 cum
5.	Total cutting quantity			576.00			576.00 cum
6.	Subsoil quantity Small rocks quantity			0.00		_	0.00 cum
7. 8.	Required quantity of debris for	or backfilling cur	n.	480.00		1	480.00 cum
9.	Additional required quantity			96 c (Exce	cum ss)		96 cum (Excess)
10.	Disposal Method			strip a	long hery of	in green	To be filled in green strip along periphery of buildings.
	MERCH				-0-1	111	



11.	Is any Nala Passing through Site	. 1950	NO '	NO
12.	If yes Details		NA	NA

Section 2 & 4 Water Conservation, Waste Water Management, Rain Water Harvesting and Ground Water Recharge

During construction phase:					
Source of	Tanker				
Water	1				
Labour water	Domestic/ Dri	Domestic/ Drinking			
Requirement	requirement				
	1.54	, o m , day			
Construction	35 m³/day	1)			
water					
requirement		•			
During Opera	tional Phase				
Details	Dry Season	Wet Season			
Fresh water	94.5 m ³ /day	94.5 m ³ /day			
(in m³/day)		1.12 ,			
Recycled	55.25 m ³ /day	55.25 m ³ /day			
water					
(Flushing)					
Recycled	8.00 m ³ /day	NA			
water					
(Gardening)					
Clubhouse	-	s=*			
Swimming	NA	NA			
pool	,				
Total fresh	149.75	149.75			
water	m³/day	m³/day			
requirement	/	222 / 333			
(Fresh +					
clubhouse)					
Excess	81.78	89.78			
treated water	m ³ /day	m ³ /day			
Recycled	55.25 m ³ /day	47.24 m ³ /day			
Water Used	•	,			
Fire fighting		200 m ³			
	200 m ³				
•					

Tanker			
Tanker			
Tanker			
Domestic/ Drin	Domestic/ Drinking requirement		
: 6 m ³ /c	lay		
35 m³/day			
1			
	Wet Season		
249.6 m ³ /day	237.6 m ³ /day		
79.2m ³ /day	79.2m ³ /day		
× .			
12 m³/day	NA		
	1 2		
_	-		
NΔ	NA		
INA	IVA		
158 /m³/day	158.4 m ³ /day		
136.4III /day	136.4 III /uay		
	Ì		
100 (4 3/1	10161 311		
122.64m ³ /day	134.64m³/day		
01 0 311	3		
91.2m³/day	79.2m ³ /day		
	300 m ³		
300 m^3			
	: 6 m ³ /d 35 m ³ /day onal Phase Dry Season		

Rain Water Harvesting (RWH) & Storm water drainage

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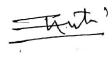


7. 1950×31100	Level of the Ground water table	10 m BGL	10 m BGL
	Pre Monsoon		
	Post Monsoon		,
	Size and no. of RWH tank(s)	NA	NA
	Capacity of RWH tanks	NA	NA
	Location of the RWH tank(s)	NA.	NA
	Number of recharge pits Provided	02 No's.	02 No's.
*	Size of recharge pits	1.5X1.5X1.5m	1.5X1.5
	Natural water drainage pattern	1.50 m dia & 1.50 m	1.50 m
	Volume of the recharge pit	Pipe Drain	Pipe
	Rain water Harvesting capacity	5.30 cum	5.30
	Estimated Run off	NA	NA
	Size of SWD	150mm,200mm & 250 mm Dia. Pipe drain	150mm, 200mm
	Quantity of storm water:	274.4 m ³ /Day	291.0m ³ / day
			,

d Wastewater			
	generation in KLD:	137.03 m³/day	213.84 m³/day
STP	hnology:	MBBR	MBBR
Capa	y of STP(CMD):	140 m ³ /day	250 m ³ /day
Size	STP Dimensions	10 m x 8 m	12.8 m x9.4 m
Loca	n of STP	Refer drainage layout	Refer drainage layout
	ary allocation (Capital od O&M cost)	Capital Cost: Rs 35 lakh O & M Cost: Rs	Capital Cost: Rs 74.84 lakh O & M Cost:
		8.13 Lakh/year	Rs 9.21 Lakh/year
STP Capa Size Loca Buda	hnology: y of STP(CMD): STP Dimensions n of STP ary allocation (Capital	MBBR 140 m³/day 10 m x 8 m Refer drainage layout Capital Cost: Rs 35 lakh	MBBR 250 m³/day 12.8 m x9.4 Refer drainal layout Capital Cos Rs 74.84 lak O & M Cos Rs 9.21









7.





Details	During Construc tion In Kgs	During Operat ion In Kgs	Disposal Method
Total Waste Generatio			
Quantity of top soil to be preserved		-	Use For Landsca ping
Disposal of constructi on waste Debris		-	Use for Leveling
Biodegrad able Waste	18.0 kg/day	330.75 kg/day	Organic Waste Converto
Non Biodegrad able Waste	12 kg/day	141.75 kg/day	SWACH
E waste	-	-	-
Biomedic al Waste		•	-
Hazardous Waste	-		-
STP Sludge		28 kg/day	Used as Manure after treatmen t in OWC
Area Requirem ent for OWC		50.00 m ²	

Section 3: Solid waste Management

]	Details	During Constructi on	During Operati on	Disposal Method
		In Kgs	In Kgs	
	tal iste neration			
top be	antity of soil to	576	-	Use For Landscapi ng
Dis	posal of estruction vaste	480	-	Use for Leveling
	degrada Waste	18.0 kg/day	585.9 kg/day	Organic Waste Convertor
	n degrada Waste	12 kg/day	251.10 kg/day	SWACH
Εw	aste	-	-	-
Bio Was	medical ste	-	-	-
Haz Was	zardous ste	-	-	-
STF	P Sludge		50 kg/day	Used as Manure after treatment in OWC
	a uiremen OWC		50.00 m ²	





Area Requirement:

1. Location:

2. Total Area provided for the storage & treatment of the solid waste: 50.00 m²

3. Budgetary Allocation: Capital Cost: 12.85 Lakhs

O & M cost: 2.27+1.25 Lakh/year

Area Requirement:

1. Location:

2. Total Area provided for the storage & treatment of

the solid waste: 50.00 m² 3. Budgetary Allocation:

Capital Cost: Rs 18.18 LakhO & M Cost: Rs.2.76 Lakh/year

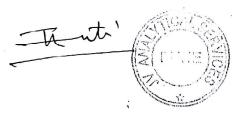
Section 5 Energy

Details	During Construction ,		During Operation		
Connected Load	40 KW	40 KW	2055.89 KW	1368 KW	
Maximum Demand={connected load* U.F.} / P.F.	-	- ,		1231 KW	
DG Set	1 nos. x150 KVA	1 nos. x125 KVA	1 nos. x 275 KVA	2 nos. x 275 KVA	
No. Of Transformers	-	-	3 nos. x 630 KVA	3 nos. x 630 KVA	
Source	MSEDCL	MSEDCL	MSEDCL	MSEDCL	

The following Energy Conservation Methods are proposed in the project:

- Solar Water Heating Systems Will be Done for Bathrooms
- Solar Lights will be provided for common amenities like street lightings & Garden lightings
- CFL & LED based lighting will be done in the common areas, landscape areas, signage's, Entry Gates and boundary compound walls etc.
- Auto timer switches will be provided for street lights, Garden lights, Parking & staircase lights & other Common area Lights for saving electrical energy.
- Water Level Controllers with timers will be used for water pumps.
- Overall Energy Saving is-18%









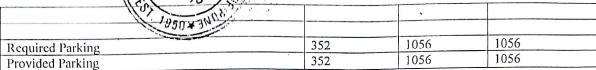
Compl	iance with Er	nergy Conservation Building Code (ECBC)	2007	
Sr.	Section	Requirement	Remark.	
No.	No			
10	6.2.1	Solar water heating for minimum 20% design capacity	Complies & Sheet Enclosed.	
11	6.2.2	Equipment efficiency standards	Complies & Sheet Enclosed.	
12	7.2	Lighting controls to be controlled by photo sensor or time switch	Complies	
14	7.2.1.4	Exterior lighting to be controlled by photo sensor or time switch	Complies	
15	7.3	Interior lighting power to be with in specified limits	Complies	
16	7.4	Exterior lighting power to be with in specified limits	Complies	
17	8.2.1.1	Maximum allowable power loss from transformer	Complies	
19	8.2.3	Power factor be maintained between 0.95 and unity	Complies	
20	8.2.4	Check metering	Complies	

Sr No	Energy Conservation Measures	Saving%
1	Street /Landscaping Lights on Solar.	
2	Parking Floor / Staircase / Lift Lobby Lights on LED / T5 & with Timer.	18% per year
3	Elevator/Lift with energy efficient motor with VFD.	
4	Solar panel for Hot water in bathroom.	

section 9 Traffic management socio-economic aspects

Criteria	Car	Scooters	Cycles	
Residential Area= (FOR 100 SQ.M.=1:3-QCHAN)	352	1056	1056	





Parking efficiency	y statement for resid	dential Building			
Level	Required Equivalent Car Sapce	Provided car parking No. 4W	Requires Area foe proposed park as per	Proposed parking area (Sq.m)	Provided Equivalent Car Space (Sq.mt)
		-	MoEF norms	E	E
A	В	C	D	E	F/C
			=B*C	At actual	= E/C
No. of Vehicles for Covered Parking	30	352	10560.00	10560.00	30

SOCIO-ECONOMIC ASPECTS

Give details of the existing social infrastructure around the proposed project.

Sr. No.	Nearest Existing	Name/Type	Distance from project
	Social Infrastructure		(in kms)
1	Hospital	Sahyadri Hospital	3KM
2	Bank /ATM	Bank of Baroda ATM	1 Km
3	Police station	Kondhwa Police Station	1KM
4	Restaurant	Shee Chinese Restaurant	1 KM
5	Hotel	Hotel Gokul Pure Veg	1 KM
6	Entertainment centre	E-Square Konark	2 Km
7	Park/play ground	Mathurawala Sports Ground	4 Km
8	Religious place of worship	Ganesha Temple	2 Km
9	Health club	Krushnai Health Club & Clinic	2 Km

BUILDING MATERIALS

May involve the use of building materials with high-embodied energy. Are the construction material produced with energy efficient processes? (Give details of energy conservation measures in the selection o building materials and their energy efficiency)

Recycled Contents usage List

List Building Material that have recycled / waste products that are used to replace virgin raw materials :

Sr no	Particular	% per cent	
	R.C.C	20 %	
	Blocks	40%	
	Plaster:	15 %	

RAJGRUHI DE RESIDENCY

Fit.

11



Recycled content in aluminium windows	950 × 3M 25 %
Type of reinforcement steel used	Tor Steel FE 500
Type of door	Flush Doors
Type of flooring material	Vitrified Tiles and ceramic tiles
Type of glass	Low e glass

Section 10 Environmental Management Plan							
Sr. Pollution Control & Other Environment No. Infrastructure			Capital Cost In Rs. Lakhs		s Annual O & in Rs. Lakhs/year		
A} During Construction Phase:							
Water for Dust Suppression and barricading preservation	top soil	-	-		-	2.40	
Site Sanitation & Toilets		-	-		-	3.00	
B Environmental Monitoring			-		-	1.00	
Disinfection & Health Check ups		-	-		-	1.00	
Labour safety equipment and training	-					4.5	
Total (A)						11.9	
B} During Operation Phase:					v		
. Rain Water Harvesting		5.0	5.0		0.10	1.0	
. Sewage Treatment Plant		35.00	74.84		8.13	9.21	
. Organic Waste Composting		12.85	18.18		3.52	2.76	
. Tree Plantation			26.19		3.42	4.22	
. Energy saving		44.10	35.17		4.4	1.37	
Environment Monitoring				2.5	2.5		
Total (B)		118.45	159.38		22.01	21.06	
Total (A+B)		118.45	159.38		22.01	32.96	
Section 7 Green Cover							
Particulars			_				
Plot Area (after deductions)	1	11133.24 m ²			11276.75 m ²		
Mandatory open space Provided as per local DCR	1	1469.44 m ² 1,:			1,313.08 m ²		
20% Pervious area Required to be maintained on open	2	293.88 262			262.61 m ²		
% of pervious area provided on open space	2	20% 20%			20%		
List Of Existing Plantation for the Scheme: NA							
Total No. of trees to be transplanted	N	NA N			NA		
Total No. of trees to be cut	N	NA		NA			
Total No. of trees to be protected	N	NA N			1		
Total no. of trees required for plantation (species of MO)	EF 1	77		177			
Total no. of trees proposed for plantation	3	316			195		

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Tree density

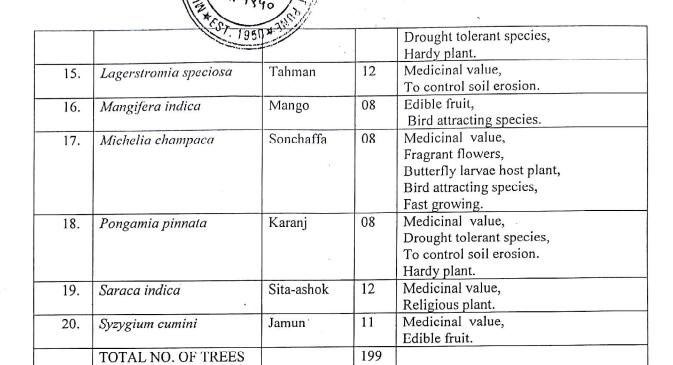
Tree dell	y.			As per tivic items
List Of	Proposed Plantation for the sche	eme:		
Sr.no.	Botanical Name	Common Name	Qty	Characteristics & Ecological Importance
1.	Ailanthus excelsa	Maharukh	08	Ailathus excelsa
2.	Albizia lebek	Shirish	08	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
3.	Anthocephalus kadamba	Kadamb	12	Medicinal value, To control soil crosion, Birds, squirrels, monkey eat fruits.
4.	Azardirachta indica	Neem	12	Medicinal value, To control soil erosion. To improve soil erosion
5.	Bauhinia blackiana	Kanchanraj	12	Every part of the plant is medicinal, Drought tolerant species.
6.	Bauhinia purpurea	Gulabi kanchan	12	Every part of the plant is medicinal ,Drought tolerant species.
7.	Butea monosperma	Palas	12	Medicinal value, Bird attracting species, To control soil erosion.
8.	Cassia fistula	Bahawa	12	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
9.	Choclospermum religiosum	Sonsawar	08	Medicinal value, Native species
10.	Cordia dichotoma	Bhokar	08	Medicinal value, Edible fruits
11.	Dalbergia sisoo	Shisav	12	Medicinal value, Bird attracting species
12.	Ficus arnottiana	Payar	08	Drought tolerant species, Bird attracting species. To control soil erosion.
13.	Ficus glomerata	Umber	08	Medicinal value, Edible fruits, Bird attracting species
14.	Ficus retusa	Nandruk	08	Medicinal value, Bird attracting species,

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As per PMC Norms



Landscape garden Plant List:-

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Danusca	ape garden Flant Dist		T	T
Sr.no.	Botanical Name	Common Name	Qty	Characteristics & Ecological Importance
1.	Azardirachta indica	Neem	05	Medicinal value, To control soil erosion. To improve soil erosion
2.	Bauhinia racemosa	Apta	05	Every part of the plant is medicinal, Drought tolerant species.
3.	Caryota urens	Fishtail palm	25	Grown in any type of soil. Very Hardy.
4.	Citrus species	Lemon	05	Medicinal value, Edible fruit.
5.	Dalbergia sisoo	Shisav	05	Medicinal value, Bird attracting species,
6.	Erythrina indica	Pangara	05	Fragrant flowers, Drought tolerant species, Birds attracting
7.	Gmelina arborea	Shivan	05	Medicinal value, Drought tolerant species, Bird attracting species.



8.	Mimosups elengii	Bakul	.17	Fragrant flowers, Medicinal value,
9.	Murraya koengii	Kadipatta	05	To control soil erosion. Medicinal value, Edible leaves.
10.	Muntingia calabura	Singapore cherry	05	Fragrant flowers, Bird attracting species.
11.	Nyctanthus arbortristis	Parijatak	05	Fragrant flowers, Medicinal value,
12.	Putranjiva roxburghii	Putrnjiva	05	Medicinal value, Drought tolerant species,
13.	Roystonia regia	Bottle palm	25	Ornamental plant, Medicinal value, Birds & bats eat fruits.
	Total No of Trees		117	

List of Shrubs:-

Sr. No	Botanical name	Common name
1	Nerium olender pink	Nerium single pink
2	Adathodavasica	Adulsa
3	Cassia auriculata	Tarwad
4	Cymopogonfloxsus	GavatiChaha
5	Plumbago capensis	Chitrak
6	Tabernaemontanacoronaria variegated	Variegated tagar
7	Stachytarphetaindica	Stachytarpheta Blue
8	Stachytarphetaindica	Stachytarpheta Red
9	Cestrum nocturnum	Ratrani
10	Belloperone gutta	Shrimp plant red
11	Jasminumsambac	Mogra
12	Hedychiumflavescens	Sontakka
13	Calliandraemarginata	Powder puff dwarf
14	Cassia biflora	Cassicabiflora
15	Ficus benjamina black	Ficus black
16	Ficus benjamina starlight	Ficus starlight
17	Alpinia specious	Alpinia yellow varigated
18	Euphorbia carcasana	Euphorbia
19	Psuedoerenthemum reticulum	Kodia Yellow
20	Heliconia psittacorum	Heliconia orange upright
21 .	Acalyphawilkesiana	Acalpha marble pink
22	Murraya exotica	Kamini

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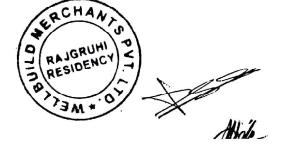


23	Ailamandanerifolia	Allamanda miniature
24	Hibiscus roseasinensis	Hibiscus white regular
25	Ceasalpiniapulchirrima	Shankasur
26	Ixora dufii red	Ixora deep red
27	Lagestromiaindica	Lagestromiaindica
28	Lantana camera	Tantani
29	Eranthemumlaxiflorum	Tagar blue
30	Galphimiaglauca	Canara bush
31	Vitex negundo	Nirgudi
32		Sagargota
33	Ziziphusmauritiana	Ber
34	Cassia tora	Takala
35	Passiflora edulis	Krushna kamal
36		Ran Jai

• NOC for the tree cutting/ transplantation/ compensatory plantation if any: NA

Checklist for the other necessary approvals

Sr.	Description	Status of	Name of the	Date of The
No		approval	competent	Issued Letter
	·		authority	
1.	CFO NOC for the above said building	Fire NOC	Pune Municipal	30.10.2014
	structure	Obtained	Corporation	
2.	HRC NOC for the above said building structure(s)(If applicable)		Not Applicable	
3.	NOC for the above said building structure(s)from the aviation authority(If applicable)		Not Applicable	₩ ,
4.	Consent for the water for the above said details	Water NOC Obtained	Pune Municipal Corporation	25-5-2016
5.	Consent for the Drainage for the above said details	Drainage NOC Obtained	Pune Municipal Corporation	19-5-2016
6.	Consent for the electric supply for the proposed demand	Not yet applied		
7.	Precertification for Green Building From Indian Green Building Council and other recognized institutes (If applicable)	Obtained	IGBC	June 2014
8.	Court Order (If applicable)		Not Applicable	
9.	Solid Waste Approval	Dry Waste disposal NOC obtained	SWACH	11/07/2017



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The proposal has been considered by Environment Committee in it's IInd meeting and decided to approve the Integration of Environment Conditions to the said project, subject to fulfillment of DCPR 2017 norms and in addition to the following terms and conditions:

S.No.	EC Condition for Construction Phase
i	Provision shall be made for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche and First Aid Room etc.
ii	PP has to abide by the conditions stipulated by Environment Cell and Environment Committee of PMC.
iii	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.
iv	The solid waste generated should be properly collected and segregated, dry/inert solid waste should be disposed off as per Solid Waste Management Rules - 2016
v	Disposal of C&D waste during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of PMC. All demolition and construction waste shall be managed as per the provision of the construction & Demolition Waste Rules 2016 and as per PMC norms.
vi	Water supplied by Municipal corporation shall not be used for construction.
vii	Arrangement shall be made that waste water and storm water do not get mixed.
viii	All the topsoil excavated during construction activities should be stored and used for horticulture / landscape development within the project site.
ix	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area shall be protected and improved.





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X	Plantations in Open Space/ Recreation Ground/ Landscape area shall include native plant species and should be done as per the list provided by Garden Department of PMC. At least 20% of the open spaces as required by the Building bye laws shall be pervious.
xi	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump/storage sites for such material must be secured so that they should not leach into the ground water.
xii	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
xiii	The Diesel Generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks if required and clearance from concern authority shall be taken.
xiv	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards
XV	Dust, Smoke & other air pollution prevention measures shall be provided as per CPCB/MPCB norms for the building as well as site
xvi	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.
xvii	PP shall use environment friendly materials in bricks, blocks and other construction materials for at least 20% of construction material quantity. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended from time to time.
xvii	Ready mixed concrete and other eco friendly construction technologies should be used in building construction.
xix	Structural design should comply with the requirements and laws pertaining to





	structural safety of the buildings. National Building Code should be followed.
xx	Storm water control and its re-use should be as per Central Ground Water Boar and BIS standards for various applications. Adequate provision for storage and recharge of water should be followed as per the Ministry of Urban Developmen Model Building Bye-laws.
xxi	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices followed.
xxii	Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project. The ground water extraction if any, should be in consultation with Ground Water Authority.
xxiii	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the PMC before the project is commissioned for operation. The unused treated effluent, if any should be discharged in the sewer line. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odor problem from STP. The parameters of treated sewage should conform to CPCB/MPCB norms.
xxiv	Prior approval of PMC's Drainage department for commissioning of STP is mandatory.
xxiv	Sludge should be removed periodically to ensure efficient treatment of sewage. Treated Sludge from sewage treatment shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) manual on sewage and sewage treatment systems.
xxy	The Project proponent should install a flow meter with totaliser to measure: A. Inlet of STP. B. Recycling Tank C. Surplus treated sewage before releasing in municipal drains
xxxvi	The Integration of Environment Conditions letter shall be published by the PP on the website/ webpage of the project.
xxxvii	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.



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xxxviii	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control systems
xxxix	ECBC compliance for the project should be in accordance with Maharashtra ECBC and it's rules as amended from time to time.
XXXX	Energy conservation measures like installation of CFLs/ LED's for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.
xxxxi	20% of water heating requirement of the project should be provided by use of solar water heaters/ other renewable energy systems. Installation of solar panels wind energy or hybrid renewable energy systems to be installed for 1% of connected load of the project.
xxxxii	Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low Sulphur diesel. The PP should take measures to reduce noise emanating from DG sets, place DG sets strategically to reduce the impact of noise. Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. The location of DG set and exhaust pipe height shall be as per CPCB norms.
	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site should be avoided through traffic control measures. Parking should be fully internalized and no public space should be utilized. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks
	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase. The PP should take measures so as to avoid disturbance to the surroundings. Any damage to public property immediately adjoining the site (Footpaths, Road surface, Trees etc at entry and exit points of the site) should be compensated for / rebuilt/ repaired in consultation with the PMC. Work should be carried out during day time only.



XLV	Six monthly monitoria
AL V	Six monthly monitoring reports should be submitted to Pune Municipal
	Corporation on 1st June & 1st December of each calendar year. The proponent
	shall upload the status of compliance of the stipulated EC conditions, including
	results of monitored data on their website and shall update the same
	periodically. The criteria pollutant levels and shall update the same
	periodically. The criteria pollutant levels namely PM10, PM2.5, SO ₂ , NO _X
	(ambient levels as well as stack emissions) or critical sector parameters,
1	indicated for the project shall be monitored and displayed on Project
	Proponent's website in the public domain.
777.777	
XLVI	In case of any change(s) in the scope of the project, the project would require a
	fresh appraisal by PMC.
XLVII	Under the provisions of Environment (Protection) Act, 1986, legal action shall
	be initiated against the project property if it was Countries and I de
	be initiated against the project proponent if it was found that construction of the
	project has been started without obtaining approval to the Integration of
	Environment Conditions to the said project.
XLVIII	The least Court of the Court of
VT AIII	The location of outdoor units for HVAC should be such that they do not cause
	noise disturbance to adjoining properties. Adequate measures should be
	undertaken to avoid noise pollution to adjoining users.
XLIX	The placement of STP tanks should be done in a manner that they are open to
	sky so as to facilitate better light and ventilation.
	again and ventuation.

S.No.	EC Condition for Post-Construction/Operation Phase
i	Project proponent shall ensure completion of all environmental infrastructure prior to occupation of the buildings. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional. The Environment Cell of Project Proponent shall operate the environmental services till handing over to the occupant/society. After that, the society/ occupant should take over the responsibility of all the environmental services of project.
ii	The occupant/ society shall set up a separate environment management cell/agency with qualified staff for implementation of the stipulated environmental services. Environment Management Cell/agency should submit half yearly compliance reports with respect to terms and conditions in hard and soft copies to the PMC on 1st June & 1st December of each calendar year. The monitoring reports should include certificate of continued compliance of the project for



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	environmental conditions parameters from Qualified Building Environmental Auditors.
iii	The occupant/ society shall allocate separate funds for implementation of environment management measures/ Environmental services along with itemwise breaks-up. These cost shall be included as part of regular society maintenance. The funds earmarked for the environment management measures shall not be diverted for other purposes and expenditure should reported to the PMC along with compliance reports.
iv	Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And no wet garbage will be disposed outside the premises. Non-biodegradable waste should be properly stored before it is handed over to authorized vendor.
V	A complete set of all the documents of the completed project to be submitted to PMC.
vi	In case of any change(s) in the scope of the project after occupancy certificate, the project would require a fresh appraisal of Integrated Environmental Conditions by PMC.
vii	The provision of solid waste (management) Rules 2016 and the e-waste(Management) Rules 2016, and the Plastic Waste Management Rules 2016 shall be followed. E- Waste shall be disposed through Authorized vendor as per E-Waste (Management and Handling) Rules 2016.
viii	During execution of agreement to sale/ conveyance/ deed of declaration/apartment deed, the project proponent shall mention about the various environment infrastructures (STP, Solar, OWC, Rain Water Harvesting etc) included in the project and include clause about further O & M of environment infrastructures would be responsibility of prospective purchaser/s/or occupant/s.
S.No.	General Conditions
1	The integration of environment conditions is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble Court will be binding on the project proponent. Hence the Integration of Environment Conditions does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.



2	In case of submission of false document and non-compliance of stipulated conditions, Authority/Environment Department will revoke or suspend the Integration of Environmental Conditions without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986
3	The Case of false declaration or Certification shall be reported to the accreditation body for blacklisting of Qualified Building Environment Auditors and financial penalty on the owner and Qualified Building Environment Auditors under relevant state laws.
4	Pune Municipal Corporation reserves the right to add any stringent condition or to revoke the conditions stipulated if they are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
5	In case of any deviation or alteration in the project proposed from those submitted to PMC, a fresh application/ amendment to the project should be made to PMC to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
6	No construction shall be allowed in contradiction to D.C. Rules and guidelines of Irrigation Department within blue line/ blueline-redline.
7	Any appeal against Approval to Integration of Environmental Conditions shall lie with the National Green Tribunal, Western Zone Bench, New Administrative Building, 1st Floor, B-wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
8	All the integrated environmental conditions stipulated in schedule A of Govt. of Maharashtra, Urban Development Department, Mumbai vide notification No.TPS-1816 / CR443/16/DP/Pune & Konkan/UD-13 Dated 28/6/2017 are binding on Project.



Member Secretary
Environment Officer
Pune Municipal Corporation