

## OMR MALL DEVELOPERS P LTD ALLIED MAJESTIC PROMOTERS

18.05.2016

Shri A.N.Singh,
Member Secretary,
Ministry of Environment Forest and Climate Change,
Jor Bagh Road, New Delhi- 110 003

Sub: Submission of Revised Form 1, 1A, conceptual Plan and Annexure for the project.

#### Ref:

- 5<sup>th</sup> meeting of Expert Appraisal Committee (Infra-2) All Ship breaking yard including ship breaking unit, Common Hazardous waste Treatment, storage and Disposal facilities, Ports and Harbours, Aerial Ropeways, CETPs, Common Municipal Waste Management Facility, Building / Construction Projects, Township and Area Development Projects held on 29<sup>th</sup> April, 2016 Agenda No. 5.2.8 scheduled on 29/04/2016, File No. 21-75/2015-IA-III
- Minutes for 5th meeting of Expert Appraisal Committee (Infra-2) held on 29<sup>th</sup>
   April 2016 5.2.8, File No. 21 -75/2015-IA-III

Dear Sir,

This is reference to above meeting held on 29<sup>th</sup> April 2016, we are here by submitting the Revised Form1, 1A, conceptual Plan and Annexure for the above said project.

Kindly acknowledge upon receipt of the same.

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Thanking You

For OMR Mall Developers Pvt. Ltd & Allied Majestic Promoters

**Authorized Signatory** 

#### **APPENDIX**

#### FORM-1

#### (I) Basic Information

#	Item	Details			
1.	Name of the Project	Proposed "The Marina" - A Mixed			
		Development of Mall, Hotel, Multiplex			
		and Residential Apartments			
2.	S. No. in the schedule	8 (a)			
3.	Proposed capacity/area/length/tonnage to	Total Plot Area: 25130.90 sq .m			
	be handled/command area/lease	Built Up Area : 110835.03 sq. m.			
	area/number of wells to be drilled.				
4.	New/Expansion/Modernization	Amendment to the EC obtained from MoEF			
		since there is change in concept			
5.	Existing Capacity/Area etc.	NA. Since it is a new project.			
6.	Category of Project i.e., 'A' or 'B'	B 2			
7.	Does it attract general condition? If yes,	No			
	please specify.				
8.	Does it attract specific condition? If Yes,	No			
	please specify.				
9.	Location				
	Plot/Survey/Khasra No.	13/1A			
	Village	Egattur			
	Tehsil	Thiruporur			
	District	Kancheepuram			
	State	Tamil Nadu			
10.	Nearest Railway Station/Airport along with	Railway Station:			
	distance in kms.	Urapakkam Railway statation : 17.43 Km			
		Velachery MRTS – 14.45 Km			
		Airport:			
		Meenambakkam Airport – 17.3Km			
11.	Nearest Town, City, District Headquarters	Chennai			
	along with distance in kms.				
12.	Village Panchayats, Zilla Parishad,	Thiruporur Panchayat Union			
	Municipal Corporation, Local body	Thiruporur – 603 103			

	(complete postal addresses with telephone	
	nos. to be given)	
13.	Name of Applicant	Allied Majestic Promoters and OMR Mall
		Developers Pvt. Ltd.
14.	Registered Address	5 <sup>th</sup> Floor, CITI Tower,
		#117, Thiyagaraya Road
		T.Nagar, Chennai – 600017
15.	Address for correspondence:	5 <sup>th</sup> Floor, CITI Tower,
		#117, Thiyagaraya Road
		T.Nagar, Chennai – 600017
	Name	Mr. A. Abdul Wadood
	Designation (Owner/Partner/CEO)	Director
	Address	5 <sup>th</sup> Floor, CITI Tower,
		#117, Thiyagaraya Road
		T.Nagar,
	Pin Code	600017
	E – mail	naren@alliedhousing.com,
		naren.reddy79@gmail.com
	Telephone No.	044-43444222
	Fax. No.	044- 28151147
16.	Details of Alternate Sites examined, if any.	Not Applicable
	Location of these sites should be shown on	
	a topo sheet	
17.	Interlinked Projects	No
18.	Whether separate application of interlinked	No
	project has been submitted?	
19.	If yes, date of submission	Not Applicable
20.	If no, reason	Not Applicable
21.	Whether the proposal involves	Not Applicable
	approval/clearance under: if yes, details of	
	the same and their status to be given.	
	(a) The Forest (Conservation) Act,	
	1980?	
	(b) The Wildlife (Protection) Act, 1972?	

	(c) The C.R.Z. Notification, 1991?	
22.	Whether there is any Government	EC obtained for the same facility from MoEF
	Order/Policy relevant/relating to the site?	vide letter no. 21-562/2007-IA.III dated $1^{\rm st}$
		October, 2008. The same is enclosed in
		Annexure-1
23.	Forest Land involved (hectares)	None
24.	Whether there is any litigation pending	No
	against the product and/or land in which	
	the project is propose to set up?	
	(a) Name of the Court	
	(b) Case. No.	
	(c) Orders/Directions of the court, if any	
	and its relevance with the proposed	
	project.	

#### (II) Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

Sr.	Information/Checklist	Yes/	Details thereof (with approximate quantities/
No.	Confirmation	No	rates, wherever possible) with source of
			information data
1.1	Permanent or temporary	No	The Proposed development falls in urbanisable use
	change in land use, land		Zone as per DTCP. The land use letter is enclosed as
	cover or topography		Annexure -2.
	including increase in		
	intensity of land use		
	(with respect to local		
	land use plan)		
1.2	Clearance of existing	Yes	Minor shrubs along the boundary
	land, vegetation and		
	building?		
1.3	Creation of new land	No	The Proposed development falls in urbanisable use
	uses		Zone.
1.4	Pre-construction	Yes	The soil testing report is enclosed as <b>Annexure-3</b> .
	investigations e.g. bore		
	houses, soil testing?		
1.5	Construction works?	Yes	Part construction of basement done as vide earlier
			EC and presently stopped.

Sr.	Information/Checklist	Yes/	Details thereof (with approximate quantities/			
No.	Confirmation	No	rates, wher	-	ole) with source of	
1.6	Demolition Works?	No	Not Required	uata		
1.7	Temporary sites used for	No	•	he hired fro	m the nearby areas	
1.7	construction works or	NO	Laborers will be hired from the nearby area Hence there will not be any labor camp			
	housing of construction		Tieffee there v	viii not be any	labor camp	
	workers?					
1.8	Above ground buildings,	Yes	Annroximatel	v around 18	4,918 cu.m of soil was	
1.0	structures or	103		•	Out of which 13,368	
	earthworks including				filling and the balance	
	linear structures, cut and				to other plot owners for	
	fill or excavations		their filling re	_	<b>F</b>	
1.9	Underground works	No	Not Applicabl			
	including mining or					
	tunneling?					
1.10	Reclamation works?	No	Not Applicabl	e		
1.11	Dredging?	No	Not Applicabl	e		
1.12	Offshore structures?	No	Not Applicabl	e		
1.13	Production and	No	Not Applicabl	e		
	manufacturing Process?					
1.14	Facilities for storage of	Yes	Temporary st	orage will be	done at the project site	
	goods or materials?		during the co	nstruction pha	ise.	
			_		dling yard will be made	
			_	quiremen		
			_	-	der covered bags. Sand	
					r tarpaulin cover. Bricks	
			and steel will	•		
					g yard will be located	
1 1 5	Facilities for treatment	Voc	Solid Waste	oject site and s	separated by enclosures.	
1.15	or disposal of solid waste	Yes		a / day of coli	id wastes are likely to be	
	or liquid effluents?		generated due		-	
	or fiquid efficients:		Waste	Quantity	Treatment method	
			Waste	(kg/day)	Treatment method	
			Organic	1833	Sent to Local body	
			STP Sludge	40	Composted and used	
			T	2244	for Green belt	
			Inorganic	2241	Sold to authorized recyclers	
			Liquid Efflue	nt		
			Total Quantity of water required 529 KLD. Fresh			
			water demand	•	-	
			1			

Sr. No.	Information/Checklist Confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data				
			Phase	Popul ation	Quantity of water required	Sewage/ Effluent generated	Treatment method
			Constru ction	150	7 KLD	6 KLD	Disposed through tanker lorries
			Opera tion	8668	529 KLD	301	STP of 300 cum /day & 78 cum/day
			Source: l	Panchay	at Supply		
			286KLD. Flushing treated v Water Ba	Treated (103 KI water walance is iruporu	d water w LD), Garde rill be used s enclosed r Block I	rill be reusoning (28 KI ning (28 KI d for HVAC in <b>Annexu</b>	quantity is ed for Toilet LD) & Excess (155 KLD). re- 4. Letter it Officer is
1.16	Facilities for long term housing of operational workers?	No	No long-term housing facilities proposed as most of the skilled/unskilled manpower required for the construction /operation activities will be hired from the surrounding villages.				
1.17	New road, rail or sea traffic during construction of operation?	No	The exist road.	ing 30 n	n wide OM	R will be us	sed as access
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	No	Not appli	cable			
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No			be any c		diversion of
1.20	New or diverted transmission lines or pipelines?	No	Not envis	aged			
1.21	Impoundment,	No	Not Appl	icable			

Sr.	Information/Checklist	Yes/	Details thereof (with approximate quantities/
No.	Confirmation	No	rates, wherever possible) with source of
			information data
	damming, culverting,		
	realignment or other		
	changes to the hydrology		
	of watercourses or		
1 22	aquifers?	Ma	There is no stream executes agrees the site
1.22	Stream crossings? Abstraction or transfers	No No	There is no stream crossing across the site.
1.23	of water from ground or	NO	Fresh water demand will be met from Panchayat.
	surface waters?		
1.24	Changes in water bodies	No	There will not be any change in the drainage
1.27	or the land surface	NO	pattern or nearby water bodies.
	affecting drainage or		pattern of hearby water boares.
	run-off		
1.25	Transport of personnel	Yes	The existing 40 m wide road will be utilized for the
	or materials for		transportation of material and personnel during
	construction, operation		construction and operation phase.
	or decommissioning?		
1.26	Long-term dismantling	No	Not Applicable
	or decommissioning or		
	restoration works?		
1.27	Ongoing activity during	No	Not Applicable
	decommissioning which		
	could have an impact on		
1.00	the environment?		
1.28	Influx of people to an	Yes	Influx of the people in both phases will be
	area in either		temporarily.
	temporarily or permanently?		Construction phase Around 150 people will be engaged for the activity
	permanently:		temporarily.
			Operation phase
			Since the proposed project is a commercial
			development there will be temporary influx of 8668
			people.
1.29	Introduction of alien	No	Not envisaged
	species?		
1.30	Loss of native species or	No	Not envisaged
	genetic diversity?		
1.31	Any other actions?	No	-

2. Use of Natural resources for construction or operation of Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply).

Sr. No.	Information/Checklist Confirmation	Yes/ No			ierever po	approximate ossible) with
2.1	Land specially undeveloped or agricultural land (ha)	No	Not applicabl non agricultur	_	sed project	is located in
2.2	Water (expected source & competing users) unit KLD	Yes	The total water requirement will be 529 KLD			e 529 KLD
			Source	Quantity	Source	Competing Users
			Fresh water requirement Treated waste water for toilet flushing, gardening and	243 KLD 286 KLD	Panchayat water Recycling o waste water	Nil f Nil
			HVAC			
2.3	Minerals (MT)	No	Not applicable			
2.4	Construction material – stone, aggregates, and/soil (expected source-MT)	Yes	This will manufacturers	•	ocured d	irectly from
2.5	Forests and timber (source-MT)	No	Doors used doors/laminat will be used.			ors or panel windows
2.6	Energy including	Yes	Power require	ment.		
	electricity and fuels		Details	Capac	city	Source
	(source, competing users) Unit: fuel (MT), energy		Power Requirement	48261	kVA	TNEB
	(MW)		Power Back	2 x 15	500 kVA+ 00 kVA +	DG sets
2.7	Any other natural resources (use appropriate standard units)	Yes	proposed for	storing	LPG for su	Cylinders are upply to Food orking and one

3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health

Sr. No.	Information/Checklist Confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	No	This is a Commercial building and no storage of Hazardous chemicals (as per MSIHC rules), apart from spent oil and LPG. Suitable management practice will be adopted for the same.  Approximately 0.65 KL/day of HSD (low sulphur variety) will be used per day and 5 KL (1 week storage capacity) will be stored in HDPE Drums for DG sets. However, the quantity stored will be below the threshold limit specified by the MSIHC rules.  *DG operation- 5hrs/day
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Suitable drainage and waste management measures will be adopted in both construction and operational phase, which will restrict stagnation of water or accumulation of waste. This will effectively restrict the reproduction and growth of disease vectors.
3.3	Affect the welfare of people e.g. by changing living conditions?	No	Not envisaged
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	Not envisaged
3.5	Any other causes	No	-

### 4. Production of solid wastes during construction or operation or decommissioning (MT/month) Sr. Information/Checklist Vos/No Datails thereof (with the construction)

(N	MT/month)				
Sr. No.	Information/Checklist Confirmation	Yes/No		rates, whe	h approximate erever possible) tion data
4.1	Spoil, overburden or mine wastes	No	Not envisaged		
4.2	Municipal waste (domestic and or	Yes	Solid Waste	<u> </u>	
	commercial wastes)		About 4114	Kg / day of	f solid wastes are
	-		likely to be g	generated du	e to the proposed
			project.		
			Waste	Quantity (kg/day)	Treatment method
			Organic	1833	Sent to Local body
			STP	40	Composted
			Sludge		and used for Green belt
			Inorganic	2241	Sold to authorised recyclers
4.3	Hazardous wastes (as per	Yes	Spent oil of	from DG sets	s will be carefully
	hazardous waste management		_		isolated covered
	rules)		facility. This	s spent oil	will be sold to
			vendors aut	horized by 1	CNPCB/ MoEF for
			treatment o	f same. Suit	able care will be
			taken so tha	at spills / l	eaks of spent oil
			from stor	age could	be avoided.
			* DG Operati		ay
4.4	Other industrial process wastes	No	Not Applicab		
4.5	Surplus product	No	Not Applicab	ole	
4.6	Sewage sludge or other sludge	Yes		idge genera	
	from effluent treatment		40 Kg will be		
4.7	Construction or demolition wastes	Yes	limited to project site backfilling Unusable an	the constru These wil after man d excess co osed at des	nerated will be ction phase and l be reused for ual segregation. nstruction debris ignated places in
/ O	Podundant machinami ar	No			3.
4.8	Redundant machinery or equipment	No	Not Applicab	ne 	
4.9	Contaminated soils or other materials	No	Not Applicat	ole	
4.10	Agricultural wastes	No	Not Applicab	ole	
4.11	Other solid wastes	No	Not Applicab		
		<u> </u>			

#### 5. Release of pollutants or any hazardous, toxic or noxious substances to air (kg/hr)

Sr.	Information/Checklist	Yes/No Details thereof (with approximate quantities/						
No.	Confirmation		rates	, whereve	er pos	sible) wi	th source	of
			infor	mation dat	a			
5.1	Emissions from	Yes	Durin	g operation	phase,	DG sets 2	x 380 kVA +2	2 x
	combustion of fossil		1500	kVA + 1 x1	1000 kV	<sup>7</sup> A + 1 x 1	25 kVA cap	acity
	fuels from stationary or		provi	ded for po	ower b	ack up v	vill generate	e air
	mobile sources		pollu	tants like SC	$O_X$ , $NO_x$ .			
			> 6 N	os. Of DG st	tack wit	h an adequ	uate height	
				shall be p	orovideo	d for safe	emission of	the
				flue gases.				
			>	DG will l	be opei	ated only	during pov	wer
				failure				
			>	While usi	ng DG	unnecessa	ry load will	be
				eliminated	d to r	educe the	e emission	of
				pollutants	;			
			S.	DG	_	red Stack F	_	
			No	Capacity (kVA)	(m)		Stack (m)	Ht
			1	2 x380	45+ 3.	8= 48.8	49 m nos.)	(2
			2	2x 1500	45 +6=	= 51	51 m (2 Nos)	
			3	1x 1000	45 +6		51 m	
			4	1 x 125	45 +2.	2=47.2	48 m (1 nos)	
			Cons	truction Eq	uipmer	ıt's	(1 1103)	
			Cons	truction	(	Quantity	Operating	
			equi	pment			hours/day	
			Cond	crete mix pla	ant	1	10	
			Tow	er Crane *		2	5	
			Doze	er*		1	5	
			Truc	k		2	5	
			Com	pactors*		1	3	
			Pave	ers*		1	5	
			*Inte	rmittent use		hicular d	lensity dur	ing
							ionificant Th	J

Sr.	Information/Checklist	Yes/No	Details thereof (with approximate quantities/
No.	Confirmation		rates, wherever possible) with source of
			information data
			no major impacts are anticipated on this account.
5.2	Emission from	No	There is no production as the proposed project is
	production processes		Mixed Development.
5.3	Emissions from	Yes	This will be restricted to the construction phase
	materials handling		and construction site only. However, the
	including storage or		generation of such emission will be very minimum.
	transport		
5.4	Emissions from	Yes	The fugitive emission will be restricted during the
	construction activities		mixing of aggregates. This will be restricted to the
	including plant and		construction phase and to the construction site
	equipment		only. It will be minimized by sprinkling water.
5.5	Dust or odours from	Yes	Dust is likely to be generated during construction,
	handling of materials		this will be minimized by water sprinkling and
	including construction		tarpaulin cover will be provided over stored raw
	materials, sewage and		material to reduce dust emission.
	waste		On site sanitation facilities will be provided for
			construction workers during construction.
5.6	Emissions from	No	No incineration of waste.
	incineration of waste		
5.7	Emissions from burning	No	Open burning of biomass / other material will be
	of waste in open air		prohibited.
	(e.g. slash materials,		
	construction debris)		
5.8	Emissions from any	No	Not Applicable
	other sources		

#### 6. Generation of Noise and vibration, and emissions of Light and heat

Sr. No	Information/Checklist Confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers  From industrial or similar processes	Yes	The machinery which will be used for construction will be of highest standard of reputed make and will adhere to international standard. Hence insignificant impacts due to construction machinery are envisaged. Source of noise in the operational phase will be DG sets and vehicular sources only. The DG sets will be in operation during power failure only. Moreover, the DG room shall be acoustically enclosed.  Not Applicable
6.3	From construction or demolition	Yes	It has been estimated that during this period the average noise level resulting from construction activities and traffic movement in the adjacent road will be around 80-85 dB (A) during peak hours. During the process workers shall be provided with protective gears.
6.4	From blasting or piling	No	No blasting or mechanized piling will be done in construction phase.
6.5	From construction or operational traffic	Yes	Negligible noise will be generated from vehicular movement in the construction and operational phase.
6.6	From lighting or cooling systems	Yes	From the cooling towers approx. 85-95 dB (A) of noise would be generated. Such noise mainly generate due to (i) cooling system fan noise and (ii) water splash noise. Adequate Care shall be taken to minimize such noise by incorporating better design fans (with Acoustic enclosure), providing soundproof platform (with layer of geo textile) to minimize the water splash noise. Such arrangements can minimize the noise from cooling tower to the extent of 60-70%.
6.7	From any other sources	No	Not Applicable

### 7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal wasters or the sea

Sr.	Information/Checklist	Yes/No	Details thereof (with approximate
No.	Confirmation		quantities/ rates, wherever possible)
			with source of information data
7.1	From handling, storage, use or	No	Spent oil will be handled with utmost
	spillage of hazardous materials		care, spent oil will be stored in HDPE
			drums stationed over concrete platforms
			and will be directly transferred to vendors
			authorized to handle such hazardous
			material.
7.2	From discharge of sewage or	No	The wastewater generated from the
	other effluents to water or the		houses will be treated in STP and the
	land (expected mode and place of		treated water will be utilized for
	discharge)		landscaping and flushing purpose.
7.3	By deposition of pollutants	No	Proper air pollution control measures will
	emitted to air into the land or		be taken care by providing adequate stack
	into water		height and parking facility to avoid
			deposition of pollutant into nearby land
			and water.
7.4	From any other sources	No	Not envisaged.
7.5	Is there a risk of long term build	No	Not envisaged.
	up of pollutants in the		
	environment from these sources?		

### 8. Risk of accidents during construction or operation of the project, which could affect human health or the environment

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever
			possible) with source of
			information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	No	Not envisaged. 5 KL of HSD (low sulphur variety) will be stored in HDPE Drums for DG sets (1 week
8.2	From any other causes	No	-

8.3	Could the project be affected by	No	The project falls under seismic zone-
	natural disasters causing		III according to the Indian Standard
	environmental damage (e.g. floods,		Seismic Zoning Map. However
	earthquakes, landslides, could burst		suitable seismic coefficients in
	etc)?		horizontal and vertical directions
			will be adopted while designing the
			structures.

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality.

Sr.	Information/Checklist	Yes/	Details thereof (with approximate
No.	Confirmation	No	quantities/ rates, wherever
			possible) with source of
			information data
9.1	Lead to development of supporting,	Yes	Supporting and ancillary development
	utilities, ancillary development or		will not cause any consequences.
	development stimulated by the		
	project which could have impact on		
	the environment e.g.:		
	Supporting infrastructure (roads,	Yes	Internal Roads, Rainwater Harvesting,
	power supply, waste or waste water		STP etc will be provided.
	treatment, etc)		
	Housing development	Yes	
	Extractive industries	No	
	Supply industries	No	
	Other		
9.2	Lead to after use of the site, which	No	Not applicable
	could have an impact on the		
	environment		
9.3	Set a precedent for later	Yes	This may allow commercial &
	developments		residential developments near the
			area.
9.4	Have cumulative effects due to	No	No effect on any planned project in
	proximity to other existing or planned		the locality.

Sr.	Information/Checklist	Yes/	Details thereof (with approximate
No.	Confirmation	No	quantities/ rates, wherever
			possible) with source of
			information data
	projects with similar effects		

#### (III) Environmental Sensitivity

Sr.	Areas	Name / Identity	Aerial distance (with 15-km) Proposed
No.			project location boundary
1	Areas	Pallikaranai Marsh	9.3 Km
	protected	Buckingham Canal	400m
	under	Bay of Bengal	1.8 Km
	international		
	conventions,		
	national or		
	local		
	legislation for		
	their		
	ecological,		
	landscape,		
	cultural or		
	other related		
	value		
2	Areas which	Perumbakkam Lake	7.7 Km
	are important	Arasankazhani Lake	5.5 Km
	or sensitive of	Siruseri Lake	2.9 Km
	ecological	Ottiyambakkam Lake	3.88 Km
	reasons -	Chittalapakkam Lake	8.8 Km
	wetlands,		
	water courses		
	or other water		
	bodies, coastal		
	zone,		
	biospheres,		

Sr.	Areas	Name / Identity	Aerial distance (with 15-km) Proposed
No.			project location boundary
	mountains,		
	forests		
3	Areas used by	Pallikaranai Marsh	9.3 Km
	protected,		
	important or		
	sensitive		
	species of flora		
	or fauna for		
	breeding,		
	nesting,		
	foraging,		
	resting, over		
	wintering,		
	migration		
4	Inland, coastal,	Buckingham Canal	400 m
	marine or	Bay of Bengal	1.8 Km
	underground		
	waters		
5	State, national	No	No
	boundaries		
6	Routes or	MGM Dizzie World	1.2
	facilities used	VGP Universal Kingdom Crocodile Bank	8.8 10.2
	by the public	diocoune Bunk	10.2
	for access to		
	recreation or		
	other tourist,		
	pilgrim areas		
7	Defense	Tambaram Airforce	12.5
	installations	Station	
8	Densely	Navalur	0.95
	populated or	Kanathur Reddikuppam	1.9 Km
	• •	Siruseri Sholinganallur	2.0 Km 2.45 Km

Sr.	Areas	Name / Identity	Aerial distance (with 15-km) Propose		Proposed
No.			project location boundary		
	built-up area	Padur Kelambakkam	3.3 k 5.3 k		
9	Areas occupied by sensitive man made land	Yes	S. No.	Places Schools & Colleges	Dist. from Project Site Km
	uses (hospitals,		1	Mohamad Sathak College	0.9
	schools, places		2	T.S.Narayanaswamy College of Arts and Science	1.5
	of worship, community		3	Academy of Maritime Education and Training	2.6
	facilities)		4 5	SRR Engineering College Sathyabama University	2.8
			6	Indian Maritime University	3.6
Ì			7	Hindustan University	3.7
			8	Agni college of technology	3.8
			9	Central Institute of Classical Tamil	7.8
			10	VIT	8.3
			11	SMK Fomra Institute of Technology	8.3
			12	SSN College of Engineering Religious Places	9.75
			1	Advent church	1.32
			2	Puri Jagannath Temple	2.19
			3	Perumbakkam Masjid	1.38
Ì			4 5	Jumma Masjid Pudupakkam Hill temple	3.33 5.5
			6	Sri Subramaniya Temple	6.6
Ì			7	Thiruvidanthai Temple	8
			8	Kandigai Masjid	9.5
				Hospitals	1
			1	Isari Velan Mission	3.5
			2	Chettinad Health City	4.3
			3	Global Hospital	7.2
			4	Radial Ortho Clinic	9.3
				Other Important Location	S
			1	Siruseri SIPCOT	0.6
			2	MGM Dizzy World	1.5
			3	Muttukadu Boat House	3.4
			4	VGP Universal Kingdom	8.7
10	10 Areas Buckingham Canal 400m		n		
	containing	Perumbakkam Lake	7.7 k	Km	
	important,	Arasankazhani Lake	5.5 k	Кm	

Sr.	Areas	Name / Identity	Aerial distance (with 15-km) Proposed
No.			project location boundary
	high quality or	Siruseri Lake	2.9 Km
	scarce	Ottiyambakkam Lake	3.88 Km
	resources	Chittalapakkam Lake	8.8 Km
	(ground water		
	resource,		
	surface		
	resources,		
	forestry,		
	agriculture,		
	fisheries,		
	tourism,		
	minerals)		
11	Areas already	No	
	subjected to		
	pollution or		
	environmental		
	damage. (those		
	where existing		
	legal		
	environmental		
	standards are		
	exceeded)		
12	Areas	No	This area is generally plain not prone to
	susceptible to		any natural disasters. The area under study
	natural hazard		falls in Zone-III, according to the Indian
	which could		Standard Seismic Zoning Map. Suitable
	cause the		seismic coefficients in horizontal and
	project to		vertical directions respectively, have to be
	present		adopted while designing the structures.
	environmental		
	problems		
	(earthquakes,		

Sr.	Areas		Name / Identity	Aerial distance (with 15-km) Proposed
No.				project location boundary
	subsidence,			
	landslides,			
	erosion,			
	flooding	or		
	extreme	or		
	adverse			
	climatic			
	conditions)			

#### (IV) Proposed Terms of Reference

Not Applicable



### OMR MALL DEVELOPERS P LTD ALLIED MAJESTIC PROMOTERS

#### Declaration

I hereby given undertaking that the data and the information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given if any to the project will be revoked at our risk and cost.

CHENNAL

Date: 3rd April 2015

Place: Chennai

Signature of the applicant

For OMR Mall Developers P Ltd & Mijed Majestic Promoters

A.Abdul Wadood

117 Sir Thiyagara Road,

CITI Tower, 5th Floor,

T.Nagar, Chennai - 600017

#### **APPENDIX II**

#### FORM-1A

(Only for construction projects listed under item 8 of the Schedule)

#### 1 LAND ENVIRONMENT

1.1 Will the existing land use get significantly altered from the project that is not consistent with the surroundings? (proposed land use must conform to the approved master plan/ development plan of the area. change of land use if any and the statutory approval from the competent authority be submitted). Attach maps of (i) site location, (ii) surrounding features of the proposed site (within 500 meters) and (iii) the site (indicating levels & contours) to appropriate scales. If not available attach only conceptual plans.

The proposed site is located in 13/1A at Egattur Village, Thiruporur Taluk, Kancheepuram District. The proposed site falls under urbanisable use Zone as per DTCP. Relevant maps and other documents are attached in annexure; the details are shown in the table below.

S.No	List of Annexure	Details
1.	Annexure-2	Land use letter from DTCP
2.	Annexure -6	500 m radius topo map
3.	Annexure -7	Satellite image with Surrounding features 10
		Km
4.	Annexure -8	Satellite image of site
5.	Annexure- 9	Revised Site plan submitted to DTCP
6.	Annexure-10	Site contour

# 1.2 List out all the major project requirements in terms of the land area, built up area, water consumption, power requirement, connectivity, community facilities, parking needs etc.

#### Salient Features of the Project

Item	Details		
Project Name	Proposed "The Marina" – A Mixed Development of Mall, Hotel, Multiplex and Residential Apartments		
Location	13/1A		
Type of project	Mixed Development		
Total Plot Area	25130.90 sq .m		
Built up area	110835.03 sq. m.		
OSR	2513.09 Sq.m (9.99%)		
Ground coverage	9939.3 sq.m (39.54%)		
Road & pavements	1911.27 Sq.m (7.6%)		
Green Belt	8362.95 Sq.m (33.28%)		
Number of Blocks/floors	Two Blocks with combined basement		
	Mall + Hotel and Residential Apartment		
Building Height	45 m		
Road Width	Approach road 40 m OMR		
Parking facilities	Cars – 1117		
	Two wheelers - 1511		
Power requirement	4826 kVA		
Source of power	TNEB		
Power backup	Hotel – 2 x 380 kVA		
	Mall and Multiplex- 2 x 1500 kVA + 1 x 1000		
	kVA		
	Residential Apartment -1 x 125 kVA		

Item	Details		
Water requirement	Total water requirement – 529 KLD;		
	Fresh water: 243 KLD;		
	Recycled water – 286 KLD.		
Water Source	Panchayat		
Estimated population to	8668 persons per day		
step-in			
Project cost	Rs147.9 Crores		
Connectivity	Existing 40 m OMR		

1.3 What are the likely impacts of the proposed activity on the existing facilities adjacent to the proposed site? (Such as open spaces, community facilities, details of the existing land use, disturbance to the local ecology)

Since the proposed project is commercial and residential development, there will be an influx of 8668 people due to the proposed activity. (Commercial – 8138 & Residential – 530)

#### **Local community**

The operation of project and other allied facilities will provide direct and indirect employment opportunities for a large section of society. The employment will have positive impact thereby increasing the quality of life.

1.4 Will there be any significant land disturbance resulting in erosion, subsidence & instability? (Details of soil type, slope analysis, vulnerability to subsidence, seismicity etc. Maybe given).

The existing terrain is retained. Cutting and filling is required. No land disturbance resulting in erosion, subsidence & instability is anticipated. Proper greening & paving of area will help in preventing soil erosion problem and subsidence. The Soil testing report is enclosed as **Annexure-3**.

The area under study falls in Zone-III, according to the Indian Standard Seismic Zoning Map. Suitable seismic coefficients in horizontal and vertical directions respectively, will be adopted while designing the structures to mitigate the seismic impacts.

1.5 Will the proposal involve alteration of natural drainage systems? (Give details on a contour map showing the natural drainage near the proposed project site)

There will be no alteration to natural drainage system and there will be a well planned storm water drain network. The contour of the project site is enclosed as **Annexure –10** 

1.6 What are the quantities of earthwork involved in the construction activity cutting, filling, reclamation etc. (Give details of the quantities of earthwork involved, transport of fill materials from outside the site etc.)

About 1,84,918 cu.m of soil was excavated for foundations. Out of which 13,368 cu.m was used for backfilling and the balance 1,71,550 cu. m was given to other plot owners for their filling requirement.

1.7 Give details regarding water supply, waste handling etc. during the construction period.

The water requirement during construction phase is 50 KLD, which will be outsourced. The sewage generated will be sent through tankers. The construction debris will be recycled to the maximum possible and the wastes will be disposed through authorized vendors.

#### **Waste Handling:**

- ➤ Soil excavated will be reused for backfilling and the fertile topsoil will be reused for horticultural purpose.
- ➤ Excess soil will be used for road construction and will be dumped at the designated site.

- ➤ For spillage of oil from the machinery, the oil (lubricating oil or fuel) is collected in a tray kept especially for this purpose and it can be reused. If possible filtration can also be done.
- ➤ For cement residual from concrete mixer plants, it is discharged into the Mixing Drum from the soil through air tight pipeline. This minimizes the chances of pollution, and is also a space saving affair.
- ➤ For construction workers, toilets will be provided with septic tank and soak pits for sewerage treatment purpose. Wash areas and drinking water will be provided.
- ➤ Solid waste generated from the site will be collected, segregated and disposed at municipal solid waste collection sites.
- 1.8 Will the low-lying areas & wetlands get altered? (Provide details of how low lying and wetlands are getting modified from the proposed activity)

There will be no alteration to natural drainage system/low lying area/wetland and there will be a well-planned storm water drain network. The storm water drainage system and rainwater harvesting pits are given in **Annexure -11** 

1.9 Whether construction debris & waste during construction cause health hazard? (Give quantities of various types of wastes generated during construction including the construction labors and the means of disposal)

The construction debris will be segregated viz., steel, metal, plastics, papers etc. Maximum effort will be taken to recycle the wastes and other wastes will be sold to scrap dealers. There will not be any health hazard due to this debris.

#### 2 WATER ENVIRONMENT

2.1 Give the total quantity of water requirement for the proposed project with the breakup of requirements for various uses. How will the water requirement met? State the sources & quantities and furnish a water balance statement.

The daily requirement of water will be 529 KLD. Fresh water demand is 243 KLD & recycle water is 286 KLD. After treatment of wastewater, treated water will be reused for flushing, HVAC and green belt. The source of water is from Panchayat.

The sewage of 301 KLD generated from domestic & flushing during the operation phase will be treated up to the tertiary level in a Sewage Treatment Plant (STP) of 300 KLD & 78 KLD.

After treatment, recycled water will be used for toilet flushing (103KLD), and gardening (28 KLD) and HVAC (155 KLD) Detailed Water balance is enclosed in **Annexure-4** 

2.2 What is the capacity (dependable flow or yield) of the proposed source of water?

Fresh water demand for the project has been calculated to be about 243 KLD. During operational phase, water will be primarily sourced from panchayat, which is highly dependable.

2.3 What is the quality of water required, in case, the supply is not from a municipal source? (Provide physical, chemical, biological characteristics with class of water quality)

The fresh water will be sourced from Panchayat.

2.4 How much of the water requirement can be met from the recycling of treated wastewater? (Give the details of quantities, sources and usage)

Out of the 529 KLD of total water requirement, 286 KLD water will be met from recycle water. It will be reused for toilet flushing (103 KLD), gardening (28 KLD) and HVAC (155 KLD).

### 2.5 Will there be diversion of water from other users? (Please assess the impacts of the project on other existing uses and quantities of consumption) There will not be any diversion of water from the other users.

## 2.6 What is the incremental pollution load from wastewater generated from the proposed activity? (Give details of the quantities and composition of wastewater generated from the proposed activity)

During operation, 301KLD of wastewater will be generated which will be treated in the Sewage treatment plant of 300 KLD and 78 KLD. Treated sewage will be utilized for flushing, & gardening purposes. The expected characteristics & pollution load of wastewater are as given in the following table Characteristics of Treated Water

Parameter	Expected Sewage Wastewater Characteristics	Treated Wastewater Characteristics
рН	7.0-10.0	6-9
BOD <sub>5</sub> at 20°C (mg/L)	250-300	30
COD (mg/l)	400-500	100
TSS (mg/L)	150	<30
Oil and grease (mg/L)	<20	<5

### 2.7 Give details of the water requirements met from water harvesting? Furnish details of the facilities created.

Rain water from roof tops will be drained through rain water vertical down take pipes. These vertical down take pipes shall be located at suitable locations inside the shafts or periphery of the building. The terrace will be sloped. The down take pipes will be connected to the storm water network and then to Rainwater Harvesting Pits. Roof top harvesting is also proposed. The plan showing the Storm water drain, and rainwater harvesting pits are given in **Annexure-11** 

2.8 What would be the impact of the land use changes occurring due to the proposed project on the runoff characteristics (quantitative as well as qualitative) of the area in the post construction phase on a long-term basis? Would it aggravate the problems of flooding or water logging in any way?

No adverse impacts are envisaged due to proposed project on the runoff characteristics of the area as adequate arrangements have been made to trap the rainwater and suitable storm water drainage system has been provided. During the post-construction phase, runoff from the project shall not be allowed to stand or enter into the roadside or nearby drain. Adequate measures shall be taken to collect such run off and directed to recharging pits.

2.9 What are the impacts of the proposal on the ground water? (Will there be tapping of ground water; give the details of ground water table, recharging capacity, and approvals obtained from competent authority, if any)

Water required for the proposed project will be met from Panchayat. Recharging of ground water is also proposed for this project.

2.10 What precautions/measures are taken to prevent the run-off from construction activities polluting land & aquifers? (Give details of quantities and the measures taken to avoid the adverse impacts)

No runoff will be disposed outside the project site.

2.11 How is the storm water from within the site managed? (state the provisions made to avoid flooding of the area, details of the drainage facilities provided along with a site layout indication contour levels)

The storm water from the site is collected by means of storm water drainage network. It is proposed to provide storm water manholes, desilting chambers and percolation pits for management of storm water. Excess storm water will be diverted to existing canal which passes through the site. The Rainwater harvesting calculations are enclosed in **Annexure-12** 

## 2.12 Will the deployment of construction laborers particularly in the peak period lead to unsanitary conditions around the project site (Justify with proper explanation)

No, the deployment of construction workers will not lead to unsanitary conditions at project site. Proper sanitary facilities will be provided to construction workers and treatment of the sewage will be done using septic tank and soak pits.

2.13 What on-site facilities are provided for the collection, treatment & safe disposal of sewage? (Give details of the quantities of wastewater generation, treatment capacities with technology & facilities for recycling and disposal)

#### **Sewage Treatment and Reuse:**

The details of quantity of sewage, sewage collection, treatment, reuse and disposal are given in the Table below. The design parameters, process description and schematic flow diagram of the STP is given in **Annexure -13**.

#### Sewage Quantity, Treatment, Reuse & Disposal

Quantity of sewage	301 KLD		
STP Capacity	STP of 300 cum /day & 78 cum/day		
Collection of sewage &	Waste water generated during the operation phase will be		
effluent	collected through sewerage system (pipe drain) for treatment in		
	STP.		
Treatment of sewage	Sewage will be treated up to the tertiary level in a Sewage		
	Treatment Plant based on SBR technology. The secondary treated		
	sewage will be treated in UF plant.		
Reuse / recycle of	Out of 286 KLD of treated water, 103 KLD will be recycled for		
treated sewage	toilet flushing, 28 KLD for gardening, 155 KLD for HVAC and there		
	is no disposal of treated sewage outside the site.		

The location of STP, Sewage line, fresh water line and dual plumbing line is given in site plan **Annexure-14**.

2.14 Give details of dual plumbing system if treated waste is used for flushing of toilets or any other use.

A separate tank is provided to store treated domestic sewage and shall then be connected to the toilet flushing of the building. The dual plumbing line is given in **Annexure-14.** 

#### 3 VEGETATION

3.1 Is there any threat of the project to the biodiversity? (Give a description of the local ecosystem with its unique features, if any)

There is no biodiversity threat as the major land use is uncultivated lands with sparse bush vegetation.

3.2 Will the construction involve extensive clearing or modification of vegetation? (Provide a detailed account of the trees & vegetation affected by the project)

Very few wild shrubs are present which have to be cleared. There will be no cutting of trees involved in the proposed project.

3.3 What are the measures proposed to be taken to minimize the likely impacts on important site features (Give details of proposal for tree plantation, landscaping, creation of water bodies etc along with a layout plan to an appropriate scale)

It is proposed to have tree plantation along the periphery of the site and also to develop lawn and greenery inside the project area. The landscape plan is shown in site plan and the vegetation for the greenbelt will be selected from the native species adapted to the local environment. About 8362.95 Sq.m (33.28%) of green area will be provided.

#### 4 FAUNA

4.1 Is there likely to be any displacement of fauna- both terrestrial and aquatic or creation of barriers for their movement? Provide the details.

Due to the temporary influx of people there will be marginal increase in traffic on the adjacent road, which will have marginal increase in noise. But adequate greenery will act as noise barrier & adequate onsite facilities are provided for management of waste generated due to the project. Hence, there will not be any type of displacement or any other effect on the local fauna due to proposed project activities.

4.2 Any direct or indirect impacts on the avifauna of the area? Provide details.

Within the proposed project site, green areas will be developed to achieve a blend between modern building and various species of plants to create a clean, healthy and aesthetic environment. Common native variety of trees and ornamental flowering species will be planted in the green space. Landscaping can have direct positive impact on the local avifauna, as this will provide shelter to local birds.

4.3 Prescribe measures such as corridors, fish ladders etc. to mitigate adverse impacts on fauna.

These measures are not applicable for the proposed project.

#### 5 AIR ENVIRONMENT

5.1 Will the project increase atmospheric concentration of gases & result in heat islands? (Give details of background air quality levels with predicted values based on dispersion models taking into account the increased traffic generation as a result of the proposed constructions).

The marginal increase in traffic due to project is not going to cause any significant increase in atmospheric concentration of gases and will not result in heat island formation. The Baseline data is enclosed in **Annexure-15** 

## 5.2 What are the impacts on generation of dust, smoke, odorous fumes or other hazardous gases? Give details in relation to all the meteorological parameters.

During operation smoke arising will be released through DG stacks. Both during construction & operation phase no significant impact on visibility and any other meteorological parameters.

#### **Mitigation measures for dust:**

- ➤ All fine earth materials must be covered during transportation to the site to prevent spillage and dusting. Trucks used for that purpose on the project should be fitted with tailgates that close properly and with tarpaulins to cover the materials.
- The transportation of lubricants and fuel to the site should only be done in the appropriate vehicles and containers, i.e. fuel tankers and sealed drums.
- As far as possible, transport of construction materials should be scheduled for off-peak traffic hours. This will reduce the risk of traffic congestion and of road accidents on the access roads to the site.
- ➤ All loose material either stocked or transported shall be provided with suitable covering such as tarpaulin, etc.
- ➤ Water sprinkling shall be done at the location where dust generation is anticipated.

5.3 Will the proposal create shortage of parking space for vehicles? Furnish details of the present level of transport infrastructure and measures proposed for improvement including the traffic management at the entry & exit to the project site.

Adequate car parking is provided for smooth movement of vehicles within the site.

#### **Parking Facilities:**

S.	Parking details	Cars		Two wh	Two wheelers	
No		Nos.	Area (Sq.m)	Nos.	Area (Sq.m)	
1	Basement1	306	3825	269	1291.2	
2	Basement 2	340	4250	481	2308.8	
3	Basement 3	363	4537.5	511	2452.8	
4	Surface	35	437.5	208	998.4	
5	Ground Floor	25	312.5	0	0	
6	First Floor	48	600	42	201.6	
	Total	1117	13962.5	1511	7252.8	

#### Traffic Management Plan at the Entry & Exit to the Project Site:

The project will have access through 30m road. Internal roads are provided within the site for smooth movement of vehicles. The basement parking plan is given in **Annexure –16.** The traffic movement within the site is given in Site Plan **Annexure-9.** There is a separate entry for Residential Apartment and separate entry for Mall and Hotel.

5.4 Provide details of the movement patterns with internal roads, bicycle tracks, pedestrian pathways, footpaths etc., with areas under each category.

The internal roads, pedestrian pathways, entry/ exits and traffic circulation plan have been shown in the traffic circulation plan enclosed. In the circulation plan of the project, there will be proper entry and exit points for systematic control of the vehicular movement within the site.

5.5 Will there be significant increase in traffic noise & vibrations? Give details of the sources and the measures proposed for mitigation of the above.

There will be temporary influx of 8668 people due to the proposed project, so there will be marginal increase in traffic on the adjacent road that will have marginal increase in noise and vibrations.

5.6 What will be the impact of DG sets & other equipment on noise levels & vibration in & ambient air quality around the project site? Provide details.

Since it is a mixed development project, impact level is minimum. Proper mitigation measures will be provided.

#### **Mitigation Measures**

- ➤ DG will be acoustically enclosed to minimize noise levels.
- > DG sets will be used only during power failure.
- During operation stage, monitoring of emissions from DG sets and ambient air quality will be carried out as per norms.
- ➤ Where feasible, incorporate low-noise systems, such as ventilation systems, pumps, generators, compressors, and fans.
- ➤ Locate all stationary equipment (i.e., compressors and generators) as far as practicable from nearby residences and other sensitive receptors.
- Install sound control devices (baffles, silencers) to limit noise levels of facility equipment wherever possible.
- ➤ Adequate greenery which acts as noise barrier will be provided.

#### **6 AESTHETICS**

6.1 Will the proposed constructions in any way result in the obstruction of a view, scenic amenity or landscapes? Are these considerations taken into account by the proponents?

As the proposed site does not have any scenic amenity or landscaping in its surroundings, there is no issue of obstruction of above-mentioned conditions. Moreover the proposal is submitted to DTCP for planning permission and the acknowledgement is enclosed in **Annexure-17**.

6.2 Will there be any adverse impacts from new constructions on the existing structures? What are the considerations taken into account?

Construction work will be carried out within the designated area and will not cause any obstruction to nearby existing structures. Hence no impact is envisaged.

6.3 Whether there are any local considerations of urban form & urban design influencing the design criteria? They may be explicitly spelt out.

The architectural plan of the building will confirm with the Bangalore Development Authority norms.

6.4 Are there any anthropological or archaeological sites or artifacts nearby? State if any other significant features in the vicinity of the proposed site have been considered.

No such sites are located in the vicinity.

#### 6.5 SOCIO ECONOMIC ASPECTS

6.6 Will the proposal result in any changes to the demographic structure of local population? Provide the details.

There will be temporary influx of 8668 numbers of people upon completion of the project. Since the project is proposed mixed development, this will result in addition of people for ancillary workers viz., watchmen, electrician, plumber, vegetable/ fruits seller, commercial/fancy, Business etc.

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

The details given in item 9 of Form 1.

6.8 Will the project cause adverse effects on local communities, disturbance to sacred sites or other cultural values? What are the safeguards proposed?

Since the project related activities are confined within the premises, the proposed project will not have adverse effects on local communities.

#### 7 BUILDING MATERIALS

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

Conventional construction material will be used. Energy efficient building materials will be used as specified in the Energy Conservation Building Code.

7.2 Transport and handling of materials during construction may result in pollution, noise & public nuisance. What measures are taken to minimize the impacts? Mitigation Measures for Air Pollution during Construction Stage

## **Air Quality**

Air Quality around the project site will have impact during construction stage. Various construction activities especially related to handling of loose material like to cause generation of fugitive dust, that adversely impact the air quality of the surrounding area of the project site. To minimize such impact following measures shall be taken:

- All the loose material either stacked or transport shall provide with suitable covering such as tarpaulin, etc.
- ➤ Water sprinkling shall be done at the location where dust generation is anticipated.
- ➤ To minimize the occupational health hazard, proper personal protective gears i.e. mask shall be provided to the workers who are engaged in dust generation activity.

#### <u>Mitigation Measures for Noise Pollution during Construction Stage</u>

It has been estimated that the average noise level resulting from construction activities and traffic movement in the adjacent road will be around 80-85 dB (A) during peak hours, which will decrease with increase in distance as per the Inverse Square Law. Administrative as well as engineering control of noise will be implemented.

➤ Isolation of noise generation sources and temporal differentiation of noise generating activities will ensure minimum noise at receiver's end.

- ➤ To prevent any occupational hazard, earmuff / earplug shall be given to the workers working around or operating plant and machinery emitting high noise levels.
- Use of plant or machinery emitting high noise shall not be allowed during night hour.
- Careful planning of machinery operation and scheduling of operations shall be done to minimize such impact.

# 7.3 Are recycled materials used in roads and structures? State the extent of savings achieved?

Waste from construction like excavated earth, iron rods etc. will be recycled as far as possible.

# 7.4 Give details of the methods of collection, segregation & disposal of the garbage generated during the operation phases of the project.

Solid wastes generated from the proposed activity are given in Table below. About 4114 Kg / day of solid wastes are likely to be generated due to the proposed project.

Waste	Quantity	Treatment method		
	(kg/day)			
Organic	1833	Sent to Local Body		
STP Sludge	40	Composted and used as		
		manure		
Inorganic	2241	Sold to authorised recyclers		

The details of solid wastes collection recycle and disposals are given in the Table below.

## Solid Wastes Collection, Recycle & Disposal

Construction debris	The approximate quantity will be 5%. Maximum care will be		
	taken to reuse the same. Scrapes will be sold to authorized		
	vendors		
Quantity of solid waste	4114 kg per day (Organic waste - 1833 kg/day, Inorganic		
during operational Phase	Waste – 2241 kg/day; Sludge – 40 Kg/day)		
Nature of solid wastes	Organic waste: Waste vegetables, foods, leaves, STP Sludge etc.		
	Inorganic waste: Plastics, polythene bags, glass etc.		
Collection and disposal	The solid wastes generated will be segregated into organic and		
of solid wastes	inorganic components and collected in separate bins. The		
	organic biodegradable wastes (waste vegetables, foods etc.)		
	will be sent to local body for processing.		
Recycling of solid wastes	The inorganic wastes comprising recyclable materials, such as		
	plastic, glass etc., will be sold by promoter to prospective		
	buyers.		

## **8 CONSERVATION**

8.1 Give details of the power requirements, source of supply, backup source etc.

What is the energy consumption assumed per square foot of built-up area?

How have you tried to minimize energy consumption?

The details of power requirement, source, backup power arrangement (i.e. generators) are given in the Table below. Locations of Transformers and DG sets and the power line to different units are also provided in site plan.

## Power Requirement, Source and Backup Arrangement

Power requirement	4826 kVA
Source of power	TNEB
Backup power	2 x 380 kVA +2 x 1500 kVA+ 1 x1000 kVA + 1 x 125 kVA
supply arrangement	will be provided by DG sets for power backup in case of power failure.

**8.2** What type of, and capacity of, power back -up you plan to provide?

DG of 2 x 380 kVA +2 x 1500 kVA + 1 x 1000 kVA + 1 x 125 kVA are provided for

power backup.

8.3 What are the characteristics of the glass you plan to use? Provide specifications of its characteristics related to both short wave and long wave radiation?

Clear float glass depending upon the panel size to keep the U value as per the requirement of ECBC

8.4 What passive solar architectural features are being used in the building? Illustrate the applications made in the proposed project?

## **Solar Power for Lighting for Mall:**

Total Lighting Load in KW - 100 KW

Consumption for a period of 14 Hrs / Day (A) – 1400 KWHR

## **Solar Power for Lighting for Hotel:**

Total Lighting Load in KW - 50 KW

Consumption for a period of 14 Hrs / Day (A) – 700 KWHR

## Solar Power for Lighting for Apartment:

Total Lighting Load in KW - 50 KW

Consumption for a period of 14 Hrs / Day (A) - 700 KWHR

8.5 Does the layout of streets & buildings maximize the potential for solar energy devices? Have you considered the use of street lighting, emergency lighting and solar hot water systems for use in the building complex? Substantiate with details?

#### **Hotel:**

It is proposed to provide centralized solar hot water system of 10000 liters tank capacity with 60 panels of 125 liters per hour (Considering 2500 liters heating coil provision during non sunny days. Power consumption is 20KW per day ) Since, we have solar system for 7500 liters / hour, power saving will be 60KW per day

#### **Apartment:**

Top 3 floors are provisioned for centralized solar hot water system of 3500 liters tank capacity with 28 panels of 125 liters per hour for 36 flats 24 toilets x 3 floors x 2 = 144 KW savings per day.

- 8.6 Is shading effectively used to reduce cooling/heating loads? What principles have been used to maximize the shading of walls on the east and the west and the roof? How much energy saving has been effected?

  Shading options wherever feasible will be used for energy saving
- 8.7 Do the structures use energy-efficient space conditioning, lighting and mechanical systems? Provide technical details. Provide details of the transformers and motor efficiencies, lighting intensity and air conditioning load assumptions? Are you using CFC and HCFC free chillers? Provide specifications.

Energy-efficient space conditioning, lighting and mechanical systems will be provided.

Design Details and power savings achieved in HVAC system is given in **Annexure-18** 

- 8.8 What are the likely effects of the building activity in altering the microclimates? Provide a self-assessment on the likely impacts of the proposed construction on creation of heat island & inversion effects?

  The building will use energy efficient and environmental friendly designs that will control formulation of heat island effect. There will be also green cover at the site to reduce formation of heat island. Passive design concepts have been used to minimize energy consumption and maximize the energy efficiency.
- 8.9 What are the thermal characteristics of the building envelope? (a) roof; (b) external walls; and (c) fenestration? Give details of the material used and the U-values or the R values of the individual components.

  Project with brick wall, aluminum windows, normal weathering course and tiles on the terrace.
- 8.10 What precautions & safety measures are proposed against fire hazards?

## Furnish details of emergency plans.

In case of any hazards Emergency Preparedness & Response plan will be in place

- > Emergency siren to be sounded
- Systematic evacuation
   General Firefighting system proposed for the site is enclosed in **Annexure-19**

and Fire NOC is given in Annexure-20

8.11 If you are using glass as wall material provides details and specifications including emissivity and thermal characteristics.

Glass is used as wall material, Clear float glass depending upon the panel size to keep the U value as per the requirement of ECBC.

8.12 What is the rate of air infiltration into the building? Provide details of how you are mitigating the effects of infiltration.

Adequate provisions are provided to mitigate the effects of air infiltration.

8.13 To what extent the non-conventional energy technologies are utilized in the overall energy consumption? Provide details of the renewable energy technologies used.

Solar energy will be used for minimum lighting.

#### 9 ENVIRONMENT MANAGEMENT PLAN

9.1 The environment management plan would consist of all mitigation measures for each item wise activity to be undertaken during the construction, operation and the entire life cycle to minimize adverse environmental impacts as a result of the activities of the project. It would also delineate the environmental monitoring plan for compliance of various environmental regulations. It will state the steps to be taken in case of emergency such as accidents at the site including fire.

The Environmental Management Plan is explained briefly in **Annexure -21**.

## **CONCEPTUAL PLAN**

## 1. PROPOSAL:

Change of concept plan to the Environmental Clearance already obtained for the facility **"The Marina"** at Egattur Village, Thiruporur Taluk, Kancheepuram District within an area of 25130.90 sq .m. The built up area is 110673 sq. m.

#### 2. PROMOTERS:

The project is promoted by "OMR Mall Developers Pvt Ltd". The registered address is - 5th Floor, CITI Tower, #117, Thiyagaraya Road, T.Nagar, Chennai – 600017

## 3. PROJECT:

The proposed project is modification of mixed development. The project details are given below:

Item	Details
Project Name	Proposed "The Marina" - A Mixed Development of Mall, Hotel, Multiplex and Residential Apartments
Location	13/1A
Type of project	Mixed Development
Total Plot Area	25130.90 sq .m
Built up area	110835.03 sq. m.
OSR	2513.09 Sq.m (9.99%)
Ground coverage	9939.3 sq.m (39.54%)
Road & pavements	1911.27 Sq.m (7.6%)
Green Belt	8362.95 Sq.m (33.28%)
Number of Blocks/floors	Two Blocks with combined basement
	Mall + Hotel and Residential Apartment
Building Height	45 m
Road Width	Approach road 30 m
Parking facilities	Cars – 1117
	Two wheelers - 1511
Power requirement	4826 kVA

Item	Details
Source of power	TNEB
Power backup	Hotel – 2 x 380 kVA
	Mall and Multiplex- $2 \times 1500 \text{ kVA} + 1 \times 1000$
	kVA
	Residential Apartment -1 x 125 kVA
Water requirement	Total water requirement – 529 KLD;
	Fresh water: 243 KLD;
	Recycled water – 286 KLD.
Water Source	Panchayat
Estimated population to	8668 persons per day
step-in	
Project cost	Rs147.9 Crores
Connectivity	Existing 40 m OMR

#### 4. LAND & LOCATION:

Proposed modification will be located within an area of 25130.90 sq.m. The satellite image is enclosed as **Annexure-8**. The revised site plan submitted to DTCP is enclosed as **Annexure-9**.

#### 5. SERVICES & UTILITIES:

Construction Materials: The major materials required in the construction are steel, cement, bricks, metal, flooring tiles/stones, wood, sanitary and hardware items, electrical fittings, water, etc. All the items to be used in the proposed project will be of good quality as much as procuring directly from the dealers or manufacturers will use possible ISI brand items. Local items sand, metal, bricks, etc will be procured through standard suppliers in the market.

## **5.1** Water Requirement:

During Construction Phase: During construction phase, the work force involved will be 150 Nos. The water requirement during construction phase

will be 50 KLD (including water for construction) and the sewage generated from domestic use will be 6 KLD which will be disposed through tankers. During Operation Phase: The daily requirement of water will be 529 KLD. Fresh water demand is 243 KLD & recycle water is 286 KLD. After treatment of wastewater, treated water will be reused for flushing, HVAC and green belt. The source of water is from Panchayat. Detailed Water balance is enclosed in **Annexure-4** 

## **5.2** Sewage Treatment Plant

During operation, 301 KLD of wastewater will be generated which will be treated in the Sewage treatment plant of 300 KLD and 78 KLD. Treated sewage will be utilized for flushing, & gardening purposes. The design parameters, process description and schematic flow diagram of the STP is given in **Annexure -13**.

The sewage collection system, STP location, Schematic representation of Dual plumbing system is enclosed in **Annexure -14**.

## Sewage Quantity, Treatment, Reuse & Disposal

Quantity of sewage	301 KLD
STP Capacity	STP of 300 cum /day & 78 cum/day
Collection of sewage &	Waste water generated during the operation phase will be
effluent	collected through sewerage system (pipe drain) for treatment in
	STP.
Treatment of sewage	Sewage will be treated up to the tertiary level in a Sewage
	Treatment Plant based on SBR technology. The secondary treated
	sewage will be treated in UF plant.
Reuse / recycle of	Out of 286 KLD of treated water, 103 KLD will be recycled for
treated sewage	toilet flushing, 28 KLD for gardening, 155 KLD for HVAC and there
	is no disposal of treated sewage outside the site.

## 5.3 Rain water Harvesting & Storm Water Management:

Rain water from roof tops will be drained through rain water vertical down take pipes. These vertical down take pipes shall be located at suitable locations inside the shafts or periphery of the building. The terrace will be sloped. The down take pipes will be connected to the rainwater storage tank

& it will be used after suitable treatment. Rainwater harvesting calculation is given in **Annexure-12** and the plan showing the location of RWH system, storm water drainage network and rainwater harvesting pits is given in **Annexure 11**.

#### 5.4 Power

The maximum demand has been estimated as 4826 kVA for existing and proposed expansion facility. The local electricity board will supply the required power. For back-up support,  $2 \times 380 \text{ kVA} + 2 \times 1500 \text{ kVA} + 1 \times 1000 \text{ kVA} + 1 \times 125 \text{ kVA}$  will be provided by DG sets.

## 5.5 Step in population

The total population 8668 has been estimated as temporary influx.

## **5.6** Solid Waste Management

## **5.6.1** Construction phase:

Solid wastes of construction phase will constitute excess excavated earth and construction debris with bits and pieces of steel, air-conditioning insulation material, packaging material and wood used for shuttering purposes etc.

- No construction material or wastes e.g. excavated soil, debris etc. will be dumped outside the project area.
- Construction waste and debris will in general be used for filling of land within the premises.
- Unusable steel bits and pieces, piping, concrete reinforcement will also be collected at site and sold to recyclers
- ➤ Recyclable wastes such as Cement bags, waste paper and cardboard packing material, glass fibre insulation etc shall be sold to recyclers. Construction sites are sources of many toxic substances such as paints, solvents, wood preservatives etc. Wastes generated from these sources during construction phase shall be stored in sealed containers, labelled and disposed of as required by the Hazardous Wastes Management and Handling act Amendment Rules (MoEF 2003).
- Excavated earth quantity was around 1,84,918 m<sup>3</sup>. Out of which 13,368 cu.m was used for backfilling and the balance 1,71,550 cu. m were given to other plot owners for their filling requirements.

➤ The construction debris will be segregated viz., steel, metal, plastics, papers etc. Maximum effort will be taken to recycle the wastes and other wastes will be sold to scrap dealers. There will not be any health hazard due to this debris

## 5.6.2 *Operation Phase:*

Solid wastes generated from the proposed activity are given in Table below. About 4114 Kg / day of solid wastes are likely to be generated due to the proposed project.

Waste	Quantity	Treatment method		
	(kg/day)			
Organic	1833	Sent to Local Body		
STP Sludge	40	Composted and used as		
		manure		
Inorganic	2241	Sold to authorised recyclers		

The details of solid wastes collection recycle and disposals are given in the Table below.

## Solid Wastes Collection, Recycle & Disposal

Construction debris	The approximate quantity will be 5%. Maximum care will		
	be taken to reuse the same. Scrapes will be sold to		
	authorized vendors		
Quantity of solid waste	4114 kg per day (Organic waste – 1833 kg/day, Inorganic		
during operational Phase	Waste – 2241 kg/day; Sludge – 40 Kg/day)		
Nature of solid wastes	Organic waste: Waste vegetables, foods, leaves, STP		
	Sludge etc.		
	Inorganic waste: Plastics, polythene bags, glass etc.		
Collection and disposal	The solid wastes generated will be segregated into		
of solid wastes	organic and inorganic components and collected in		
	separate bins. The organic biodegradable wastes (waste		
	vegetables, foods etc.) will be sent to local body for		
	processing.		

Recycling of solid wastes	The inorganic wastes comprising recyclable materials,
	such as plastic, glass etc., will be sold by promoter to
	prospective buyers.

## 5.7 Green Belt Development:

It is proposed to have tree plantation along the periphery of the site and also to develop lawn and greenery inside the project area. The landscape plan is shown in site plan and the vegetation for the greenbelt will be selected from the native species adapted to the local environment. About 8362.95 Sqm (33.28 %) of green area will be provided. Landscaping has been taken care of in view of the environment and aesthetics of the surrounding areas. Stress has been laid on providing ample green areas in close conjugation to the hard areas in a manner, that the overall harmony and ambience is maintained. Landscaping takes into account the various aspects of the architectural design. Trees are proposed to be planted to form an integral part of the landscape plantation and their selection is based on their ability to provide shade, flowers and fragrance apart from their high-yielding growth pattern. The addition of shrubs, hedges and ground cover will add to the aesthetics and softness to the hard building surfaces.

#### 6. ENERGY MANAGEMENT

The building will use energy efficient and environmental friendly designs that will control formulation of heat island effect. There will be also green cover at the site to reduce formation of heat island. Passive design concepts have been used to minimize energy consumption and maximize the energy efficiency.

#### 6.1 Solar Architectural Features

- ➤ The entire layout has been designed to take advantage of the local climatic conditions, the sun path and wind direction.
- Large windows have been proposed at regular intervals to invite daylight.

## 6.2 Energy Efficient Systems

Variable speed secondary pumping system is proposed for chilled water to derive energy savings during part loads.

- ➤ Cooling towers will have variable speed drives to derive energy savings during part load and low wet bulb periods.
- All Public area air handling units will be provided with variable speed drives.
- Entire HVAC system will be optimized for energy efficiency through a Building Management System.
- ➤ Electric motor drives for all fans, AHU's and pumps will be high efficiency motors to IS: 12615 2004 and also will comply with ECBC norms
- ➤ Design details and power savings achieved through HVAC system is given in **Annexure-18**

## 6.3 Energy conservation in plumbing System

- Variable speed pumping system will be adopted for water distribution.
- ➤ All W.C's will have 3 6 litres dual- flush cistern.
- All public wash basins & urinals will have proximity sensors.
- ➤ Heat recovered from the de super heaters from the chillers will also be used to pre- heat the cold water.

#### 6.4 Conservation in electrical system

- ➤ Energy efficient CFL/T5 lamps for common areas. Use of low loss electronic ballasts.
- Multiple circuits for lighting to switch off unwanted lights.
- Use of low loss capacitors, APFC relays.
- Group control for elevators
- Proper selection & sizing of cables considering de rating factors so as to minimize losses.
- ► High efficiency motors conforming to IS: 2615 2004.

#### 7. PARKING AND TRAFFIC MANAGEMENT

Adequate car parking is provided for smooth movement of vehicles within the site.

## **Parking Facilities:**

S.	Parking	Cars		Two w	heelers
No	details	Nos. Area		Nos.	Area (Sq.m)
			(Sq.m)		
1	Basement1	306	3825	269	1291.2
2	Basement 2	340	4250	481	2308.8
3	Basement 3	363	4537.5	511	2452.8
4	Surface	35	437.5	208	998.4
5	Ground floor	25	312.5	0	0
6	First floor	48	600	42	201.6
	Total	1117	13962.5	1511	7252.8

## **Traffic Management Plan at the Entry & Exit to the Project Site:**

The project will have access through 30m road. Internal roads are provided within the site for smooth movement of vehicles. The basement parking plan is given in **Annexure –16.** The traffic movement within the site is given in Site Plan **Annexure- 9.** There is a separate entry for Residential Apartment and separate entry for Mall and Hotel.

#### 8. FIRE FIGHTING SYSTEMS

Adequate fire protection facilities will be installed including fire detectors, fire alarm and fire fighting system to guard the building against fires. All fire protection facilities are designed as per the latest National Building Code. NOC from fire department is enclosed in **Annexure -20**.

#### 9. MITIGATION MEASURES FOR AIR POLLUTION

## 9.1 Construction Stage

During the construction stage there are chances of fugitive dust generation due to (i) excavation, (ii) movement heavy construction vehicles along the haul roads and (iii) storage and handling of construction materials. However, the generation of such dusts is most likely limited within the project boundary and negligible quantity is expected to the surrounding environment. To minimize such impact following measures shall be under taken:

#### **9.1.1** *Haul Road:*

- ➤ Every main haul road (i.e. any course inside a construction site having a vehicle passing rate of higher than 4 in any 30 minutes) shall be paved with concrete, bituminous materials, metal plates, and kept clear of dusty materials; or sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet.
- Regular water spraying on haulage roads during transportation of construction materials by water sprinklers
- ➤ Transfer points for transporting construction materials shall be provided with appropriate hoods/chutes to prevent dust emissions;
- Dumping of construction materials should be from an optimum height (preferably not too high) so as to reduce the dust blow

## 9.1.2 Use of vehicle

- Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty materials from its body and wheels.
- ➤ Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.

## 9.1.3 Stock Piles:

- ➤ All loose material either stocked or transported shall be provided with suitable covering such as tarpaulin, etc.
- Water sprinkling shall be done at the location where dust generation is anticipated;
- Over Burden (OB) waste dumps shall be sprayed with water as they are major sources of air borne particulate matter/dust; and,
- ➤ OB waste dumps shall be reclaimed / afforested to bind the loose soil and to prevent soil erosion.

#### 9.1.4 Building construction

Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting shall be provided to enclose the scaffolding from the ground floor level of the building ➤ Any skip hoist for material transport should be totally enclosed by impervious sheeting

## 9.2 Operation Stage

Table below gives the overview of the Air Pollution Control measures adopted during the project operation stage

## **Air Pollution Control Measures**

S. N.	Air	Source	Control Measures
1	SO <sub>2</sub> , NOx	DG sets	Adequate stack height of 63 m for the 6 stacks as per
			CPCB norms.

Adequate stack is provided for the release of pollutants from DG and from process equipment. Both during construction & operation phase no significant impact on visibility and any other meteorological parameters were observed

S.No	Source of Emission	APC measures provided	Stack height (m)
1.	DG sets	Acoustic enclosure with stack	Variable
			height
2.	Vehicular emissions	Roads will be maintained properly to	N.A
	Dust, $SO_2$ , $NO_x$ , $CO$ ,	reduce dust. All vehicle owners will	
	НС	be informed to follow the emission	
		standards fixed by the government	
		authorities to keep the air pollutants	
		under control. Pollution under	
		Control checkup camps will be	
		arranged for vehicles.	

#### 9.2.1 *Measures for Controlling Vehicular Emission:*

To control the emissions from the movement of vehicular traffic in the proposed project, following measures shall be adopted:

- ➤ Proper maintenance of the internal paved areas inside the boundary.
- Adequate greenbelt will be developed and maintained as described in the subsequent portions.
- ➤ Informatory sign shall be provided to encourage vehicle owners to maintain their vehicle and follow the emission standards fixed by Government Authorities.

## 9.2.2 Control of Sulphur Dioxide Emission:

To minimize the effect of sulphur dioxide emissions on ambient air quality, a stack is installed for the exhaust of the flue gases at a safe

height complying with the standards laid down by MoEF. The main source of  $SO_2$  emissions from the proposed project is the DG set operations. It would be ensured that all stacks of DG sets would be designed as per the stack height norms of MoEF. Diesel used for the DG sets will comply with the MOEF specifications.

## 9.2.3 Control of Particulate Emissions:

Particulate emissions are mainly from the movement of vehicles in the project site. Keeping this in mind the internal paved area of the complex will be well maintained. Green Belt has been proposed in the campus. The green belt development is designed basically to promote biodiversity enhancement, environmental management, land regeneration and water management, with technology transfer of the activities for wider application.

#### 10. MITIGATION MEASURES FOR NOISE POLLUTION

#### **10.1** Construction Stage

- ➤ During the construction stage, expected noise levels shall be in the range of 80-85 dB (A) which will decrease with increase in distance as per the Inverse Square Law.
- ➤ Administrative as well as engineering control of noise will be implemented.
- ➤ Isolation of noise generation sources and temporal differentiation of noise generating activities will ensure minimum noise at receiver's end.
- ➤ To prevent any occupational hazard, earmuff / earplug shall be given to the workers working around or operating plant and machinery emitting high noise levels.
- Careful planning of machinery operation and scheduling of operations shall be done to minimize such impact.

#### **10.2** Operation Stage

For the noise from DG Sets, there would be acoustic enclosure, which would lower the noise level. Therefore, adequate protective measures in the form of earmuffs / earplugs shall be given to workers working in these areas.

An adequate green belt cover shall be provided and the species will be selected based upon their Air-Pollution Tolerance Index (APTI), Noise abatement capacity

and local availability and landscape requirements. Thus through the greenbelt there shall be significant attenuation of noise generation.

#### 11. ENVIRONMENTAL MONITORING PLAN

To check the effectiveness of mitigation measures as proposed, a detail environmental monitoring plan shall be implemented both during the construction and operation stage of the project. There shall be a project implementation unit (PIU) and it will be the responsibility of PIU to implement such monitoring programme. Such monitoring activities will help the PIU to maintain the quality of environment through adequate checking and control of mitigation measures and environmental infrastructures. There shall be monitoring programme both for the construction and operation stages of the project. Environmental Management plan is enclosed in **Annexure 21**.

#### 12. CONCLUSION:

- > There is minimum negative impact on Air, Noise and Water Environment.
- > Treated Waste Water will be reused for gardening, HVAC and flushing.
- ➤ Rain Water harvesting system is proposed.
- > Organic waste converter for solid waste management is proposed.
- ➤ There will be positive Impact on Social conditions in and around the site.
- The Project will not result in any adverse impact to the Environment.
- ➤ The marginal impact of setting up the Development in the proposed location will be fully mitigated by the Environment Management Plans. (EMP)

# No. 21-562/2007-IA.III Government of India Ministry of Environment & Forests

Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi - 110 003.

Dated: 1st October, 2008.

To M/s. Allied Majestic Promoters (P) Ltd., "City Tower", V<sup>th</sup> Floor, #117, Thiyagaraya Road, T. Nagar, Chennai – 600 017.

Subject: Construction of a Shopping Mall-cum-Hotel "Marina Grand Mall" at 13/1A, Egattur village, Old Mahabalipuram Road, Kancheepuram District, Tamil Nadu by M/s. Allied Majestic Promoters (P) Ltd. - Environmental Clearance – Reg.

Dear Sirs,

This has reference to your application No. nil, dated 02.05.2007 and subsequent letters dated 02.05.2008, 09.06.2008 and 06.08.2008 seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 28th – 30th January 2008, 26th – 27th May, 2008 and 4th – 5th September, 2008 and awarded "Silver" grading to the project.

2. It is, interalia, noted that the project involves the construction of Shopping Mall cum hotel on a plot area of 25,292.85 Sq.m. The total built-up area proposed is 1,30,803.23 Sq. mts. (2 basements + ground + 9 floors). It is proposed to construct retail shops, theatres (1800 seats multiplex), restaurants and a 270 rooms hotel. The total water requirement is 545 KLD (fresh water requirement will be 355 KLD). The capacity of STP proposed is 450 KLD. Treated waste water to be used for flushing of toilets - 140 KLD, horticulture - 35 KLD and AC cooling - 250 KLD. The total solid waste generation will be 4 tons/day (organic waste - 1 ton/day, carton and packaging waste - 3 tons/day and STP sludge - 100 Kg/day). Total power requirement proposed is 6843 KVA. Total Parking spaces proposed are for 1320 cars (2 basements, lower ground and 8 floors) + 852 two wheelers (2 basements, lower ground and surface). The total cost of the project is Rs. 160 Crores.

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- 3. The Director, Department of Environment, Chennai has informed vide letter RC.No.P1/1532/2007, dated 27.04.2007 that the property situated in S.Nos. 13/1A of Egattur Village, Chengalpet Taluk, Kancheepuram District falls beyond 100 mts. of HTL of Buckingham Canal and hence the property does not attract the provisions of CRZ Notification 1991.
- 4. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environmental Clearance for the project mentioned above. Accordingly, the Ministry hereby accord necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

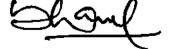
## PART A - SPECIFIC CONDITIONS

#### I. Construction Phase

- (i) "Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- (ii) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- (iii) A First Aid Room will be provided in the project both during construction and operation of the project.
- (iv) 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 wastewater and solid wastes generated during the construction phase should be ensured.
- (v) Provision shall be made in the water treatment plant for attaining bacteriological quality by chlorination before supply of water for domestic use.
- (vi) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- (vii) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

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- (viii) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- (ix) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
- (x) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Tamil Nadu Pollution Control Board.
- (xi) The diesel generator sets to be used during construction phase should be low suiphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (xii) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
- (xiii) 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 and should be operated only during nonpeak hours.
- (xiv) 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/TNPCB.
- (xv) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations).
- (xvi) Ready mixed concrete must be used in building construction.
- (xvii) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xviii) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.



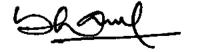
- (xix) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xx) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xxi) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xxii) Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on airconditioning. If necessary, use high quality double glass with special reflective coating in windows.
- (xxiii) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- (xxiv) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all airconditioned spaces while it is aspirational for non-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
- (xxv) The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc.
- (xxvi) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
- (xxvii) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.

#### II. Operation Phase

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 Ministry before the project is commissioned for operation. Treated affluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralised treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the Tamil Nadu Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.

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- ii) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry /-inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- 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 location of the DG sets may be decided with in consultation with Tamil Nadu Pollution Control Board.
- iv) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- v) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
- vi) Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
- vii) Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table.
- viii) The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- ix) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- A Report on the energy conservation measures confirming to energy conservation norms finalise by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.
- xi) Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project



commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.

- xii) Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
- xiii) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

## PART - B. GENERAL CONDITIONS

- i) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
- ii) Provision should be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.
- iii) Six monthly monitoring reports should be submitted to the Ministry and it's Regional Office, Bangalore.
- 5. Officials from the Regional Office of MOEF, Bangalore who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional office of MOEF, Bangalore.
- 6. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- 7. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- 8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
- 9. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

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- Environmental clearance is subject to final order of the Hon'ble 10. Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
- Any appeal against this Environmental Clearance shall lie with the 11. National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

(Bharat Bhushan) Director (IA) 8,10,2008

Sec. 187

Copy to: (1) The Secretary, Department of Environment, Government of Tamil Nadu, Secretariat, Chennai.

(2) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110 032.

(3) The Member Secretary, Tamil Nadu State Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600032

(4) The CCF, Regional Office, Ministry of Environment & Forests(SZ), 17th Main Road, Kendriya Sadan, IVth floor, E&F wings, Koramangala II Block, Bangalore - 560 034.

(5) IA - Division, Monitoring Cell, MOEF, New Delhi - 110003.

(6) Guard file.

(Bharat Bhushan) Director (IA)

# உறுப்பினர் செயலர் (பொ) மாமல்லபுரம் உள்ளூர் திட்டக் குழுமம், மாமல்லபுரம் அவர்களின் நடவடிக்கைகள் முன்னிலை : திரு. சி.பாஸ்கரத் தொண்டைமான்

## <u>ந.க.எண்.678/ 2014 மாஉ திகு</u>

நாள்: .04 .2016

: கட்டிடம் - மாமல்லபுரம் உள்ளூர் திட்டக் குழுமம், மாமல்லபுரம் -பொருள் காஞ்சிபுரம் மாவட்டம், திருப்போரூர் வட்டம் / ஊராட்சி ஒன்றியம், முட்டுக்காடு ஊராட்சி, ஏகாட்டூர் கிராமம், சர்வே எண்.13/1A-ல் 25130.90 சதுர மீட்டர் பரப்பளவு ஏற்கனவே மனை ஒப்புதல் மற்றும் அவற்றில் ഖങ്ങിക உபயோக கட்டுமானத்திற்கு பலமாடி உத்தேசித்த பலமாடி ഖഞ്ഞിക உ பயோக இசைவளிக்கப்பட்டதில் திருத்திய கட்டுமானத்திற்கு திட்ட அனுமதி வழங்குதல் - குறித்து.

## பார்வை

- 1. மனுதாரர் OMR Mall Developers Pvt Ltd, Allied Majestic Promoters அவர்களின் கடிதம் நாள்.24.02.2014.
- 2. நகர் ஊரமைப்பு ஆணையர், சென்னை அவர்களின் செயலாணை கடிதம் ந.க.எண்.23140/2007/ பிஏ2 நாள் 26.03.2008
- 3. நகர் ஊரமைப்பு இயக்குநர். சென்னை அவர்களின் செயலாணை கடிதம் ந.க.எண்.22581/200714/சிபி நாள் 20.11.2015
- 4. நகர் ஊரமைப்பு இயக்குநர் அலுவலக கோப்பு எண் 2840/13/சிபி. பலமாடி கமிட்டி கூட்டம் நடைபெற்ற நாள் 16.04.2015
- 5. 143-வது மாமல்லபுரம் உள்ளூர் திட்டக் குழும் கூட்டம் தீர்மானம் எண்.05, நாள்
- 6. அரசாணை(நிலை) எண்.86, வீட்டுவசதி மற்றும் நகர்புற வளர்ச்சித் துறை, நாள்28.03.2012
- 7. நகர் ஊரமைப்பு ஆணையர், சென்னை அவர்களின் சுற்றறிக்கை ந.க.எண்.7486/2009/ பிஏ2 நாள் 16.04.2009
- 8. நகர் ஊரமைப்பு ஆணையர், சென்னை அவர்களின் சுற்றறிக்கை ந.க.எண்.21075/2009/ பிஏ1 நாள் 04.04.2012
- இவ்வலுவலக கடிதம் இதே எண் நாள் 11.12.2015 (அடிப்படை மற்றும் உட்கட்டமைப்பு கட்டணம், வளர்ச்சி கட்டணம். நன்னிலைவரிக் கட்டணம் செலுத்தக் கோரியது)
- 10. மனுதாரர் OMR Mall Developers Pvt Ltd, Allied Majestic Promoters அவர்களின் கடிதம் நாள். 16.03.2016 (அடிப்படை மற்றும் உட்கட்டமைப்பு கட்டணம்,வளர்ச்சி கட்டணம், நன்னிலைவரிக் கட்டணம் செலுத்தியது)
- 11. நகர் ஊரமைப்பு இயக்குநர், சென்னை அவர்களின் சுற்றறிக்கை கடிதம் ந.க.எண்.4883/2010/BA2 நாள். 14.01.2011.
- 12. நகர் ஊரமைப்பு இயக்குநர் சென்னை அவர்களின் கடிதம் ந.க.எண்.37/2016 சிபி நாள்.31.03.2016.

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உத்திரவு

மாமல்லபுரம் உள்ளூர் திட்டக் குழுமப் பகுதி, காஞ்சிபுரம் மாவட்டம், திருப்போரூர் வட்டம், திருப்போரூர் ஊராட்சி ஒன்றியம், முட்டுக்காடு ஊராட்சி, ஏகாட்டூர் கிராமம், சர்வே எண்.13/1A-ல் 25130.90 சதுர மீட்டர் பரப்பளவு மனையிடத்திற்கு பார்வை 2-ல் நகர் ஊரமைப்பு ஆணையர், சென்னை அவர்களின் செயலாணை கடிதம் ந.க.எண்.23140/2007/ பிஏ2 நாள் 26.03.2008 -ல் "ABCDE" என எல்லையிட்டு மனையிட ஒப்புதலும், அம்மனையிடத்தில் Mall Multiplex, Hotel and Food court உத்தேசத்திற்கு இசைவளிக்கப்பட்டதில் திருத்திய பலமாடி வணிக உபயோக உத்தேசங்கள் கீழ்கண்டவாறு அமைகின்றன.

## Area Statement

Floor Details	Tower -1		Tower - II	
	Mall	Hotel	Residential Apartments	EWS
Combined 3 <sup>rd</sup> Basement	Parking			
Combined 2 <sup>nd</sup> Basement	Parking	ling total		6
Combined 1st Basement	Parking			y d
Ground Floor	7013.00	1070.00	1st stilt parking	
1st Floor	8680.00	maniah.	2 <sup>nd</sup> stilt parking & 82.59	
2 <sup>nd</sup> Floor	7206.70		766.11	334.04
3rd Floor	7408.30		766.11	334.04
4th Floor	4837.14	570.75	766.11	334.04
5th Floor	3920.00	1049.60	1100.15	
6 <sup>th</sup> Floor	10000000	776.82	1100.15	2-
7 <sup>th</sup> Floor	00	776.82	1100.15	
8 <sup>th</sup> Floor		776.82	1100.15	
9th Floor		776.82	1100.15	
10th Floor	0/02 <del>171</del> 31	776.82	942.21	
11th Floor		776.82	Ce 5	
Swimming Pool		-10	-	

# OSR - 2513.09 already handed over

பார்வை 3-ல் கண்ட நகர் ஊரமைப்பு இயக்குநர். சென்னை அவர்களின் செயலாணை கடிதம் ந.க.எண்.22581/200714/சிபி நாள் 20.11.2015 -ல் மேற்கண்ட உத்தேச திருத்திய பலமாடி வணிக உபயோகக் கட்டுமானத்திற்கு சிறப்பு நிபந்தனைகள் மற்றும் நிபந்தனைகளுடன் நகர் ஊரமைப்புச் சட்டம் 1971 பிரிவு 49-ன் கீழ் உறுப்பினர் செயலர்,

மாமல்லபுரம் உள்ளூர் திட்டக் குழுமம் அவர்கள் திட்ட அனுமதி வழங்க இசைவு அளிக்கப்பட்டுள்ளது.

ஒப்புதல் அளிக்கப்பட்ட கட்டிட வரைபடத்திற்கு க.வ/ ந.ஊ.இ.எண்.201/2015 என எண்ணிடப்பட்டு பெறப்பட்டுள்ளது.

பார்வை 5-ல் கண்ட மாமல்லபுரம் உள்ளூர் திட்டக் குழுமத்தின் 143-வது கூட்ட தீர்மானம் எண்.05-ல், திட்ட அனுமதி வழங்க தீர்மானம் பெறப்பட்டுள்ளது.

# ஏற்கனவே திட்ட அனுமதி வழங்கப்பட்ட உத்தேசத்தின் விவரம்

- > நகர் ஊரமைப்பு ஆணையர், சென்னை அவர்களின் செயலாணை கடிதம் ந.க.எண்.23140/2007/ பிஏ2 நாள் 26.03.2008 (இசைவளிக்கப்பட்டது)
- >் மொத்த FSI பரப்பு 56471.54 சதுர மீட்டா (பலமாடி குடியிருப்புகள்)
- > அரசாணை எண் 84, வீட்டு வசதி மற்றும் நகர்ப்புற வளர்ச்சித்துறை, நாள் 08.04.2008
- ▶ I &A கட்டணம் சதுர மீட்டருக்கு ரு.1000/- வீதம் 56471.54 சதுர மீட்டர் x ரு.1000/- ரு.5,64,75,000/-
- ▶ மனுதாரரால் செலுத்தப்பட்ட தொகை ரூ.2,82,37,500/- நாள்.19.06.2008 (50%கட்டணத்தொகை) மற்றும் அபிவிருத்திக் கட்டணம் ரூ.16,01,220/-நாள் 19.06.2008
- > 111வது மாமல்லபுரம் உள்ளூர் திட்டக் குழும் கூட்டத்தில் பொருள் எண்02 -ல் வைக்கப்பட்டு திட்ட அனுமதி வழங்க தீர்மானம் நிறைவேறப்பட்டுள்ளது.
- உறுப்பினர் செயலர், மாமல்லபுரம் உள்ளூர் திட்டக்குழுமம் அவர்களின் நடவடிக்கைகள் கடிதம் ந.க.எண் 141/2006, நாள் 26.03.2009-ல் திட்ட அனுமதி எண் 8/09, நாள் 26.03.2009-ல் திட்ட அனுமதி வழங்கப்பட்டுள்ளது.
- > 26.03.2009 முதல் 25.03.2012 வரை மூன்று ஆண்டுகளுக்கு மட்டுமே திட்ட அனுமதி காலம் செல்லத்தக்கதாகும் என தெரிவித்து திட்ட அனுமதி வழங்கப்பட்டுள்ளது.

# 2. காலநீட்டிப்புக்கான திட்ட அனுமதி

- > மேற்படி திட்ட அனுமதி வழங்கப்பட்ட காலத்தினை நீட்டிப்பு செய்யப்ட்டு கீழ்கண்டவாறு திட்ட அனுமதி வழங்கப்பட்டுள்ளது
- உத்தேச கட்டுமானம் தொடர்பாக மீதமுள்ள 50% கட்டணத்தொகை ரூ.2,82,37,500/-நாள்.07.05.2012 மற்றும் 6% காலதாமத வட்டி ரூ.3670900/- நாள்.11.05.2012 -ல் பெறப்பட்டுள்ளது
- ▶ உறுப்பினர் செயலர், மாமல்லபுரம் உள்ளூர் திட்டக்குழுமம் அவர்களின் நடவடிக்கைகள் கடிதம் ந.க.எண் 528/2010, நாள் 08.06.2012-ல் திட்ட அனுமதிக்கான கால நீட்டிப்பு 26.03.2012 முதல் 25.03.2015 வரை மூன்று ஆண்டுகளுக்கு மட்டுமே செல்லத்தக்கதாகும் என தெரிவித்து திட்ட அனுமதி கால நீட்டிப்பு வழங்கப்பட்டுள்ளது.

பார்வை 6-ல் கண்ட அரசாணையின்படி பார்வை 9-ல் கண்ட இவ்வலுவலக கடிதம் மூலம் மனுதாரரிடம் அடிப்படை வசதி மற்றும் உள்கட்டமைப்பு கட்டணம், அபிவிருத்தி கட்டணம் மற்றும் நன்னிலை வரி கட்டணம் ஆகிய கட்டணங்கள் கோரப்பட்டு பார்வை 10-ல் கண்ட மனுதாரின் கடிதம் மூலம் அரசுக்கு செலுத்தப்படவேண்டிய கட்டணமான நன்னிலை வரி ரூ.60,000/-ஐ SBI, Thirukalukundram கிளை, நாள்.16.03.2016-ல் செலுத்தியதற்கான கருவூலக செலுத்து சீட்டும் மற்றும் ரூ. 50000/- க்கான சிறுசேமிப்பு பத்திரம் ஆகியவை பெறப்பட்டு அடிப்படை வசதி மற்றும் உள்கட்டமைப்பு கட்டணத் தொகை மனுதாரரால் செலுத்தப்படவில்லை.

மனுதாரர் அடிப்படை வசதி மற்றும் உட்கட்டமைப்பு கட்டணம் செலுத்துதல் தொடர்பான மேல்முறையீடு விண்ணப்பம் நகர் ஊரமைப்பு இயக்குநர், சென்னை அவர்களுக்கு இவ்வலுவலக கடிதம் ந.க.எண்.678/2014/மாஉதிகு நாள்.08.01.2016-ல் சமர்ப்பிக்கப்பட்டுள்ளது.

பார்வை 12-ல் காணும் நகர் ஊரமைப்பு இயக்குநர் சென்னை அவர்களின் கடிதம் ந.க.எண்.37/2016/சிபி, நாள்31.03.2016 -ல் மேற்காண் பொருள் தொடர்பான உத்தேசத்திற்கு அடிப்படை வசதி மற்றும் உட்கட்டமைப்பு கட்டணம் வசூலிப்பது தொடர்பாக பார்வை 11-ல் காணும் நகர் ஊரமைப்பு இயக்குநர் சென்னை அவர்களின் சுற்றறிக்கை கடிதம் ந.க.எண்.4883/2010/பிஏ2 நாள்14.01.2011-ன் அடிப்படையில் நடவடிக்கை எடுக்குமாறு தெரிவிக்கப்பட்டுள்ளது.

பார்வை 11-ல் காணும் நகர் ஊரமைப்பு இயக்குநர் சென்னை அவர்களின் சுற்றறிக்கை ந.க.எண்.4883/2010/பிஏ2 நாள்14.01.2011-ல் வரிசை எண் 4-ல் பின்வருமாறு தெரிவிக்கப்பட்டுள்ளது.

"If applicant gets approval for one type of development from this department after the payment of Infrastructure and Amenities Charges, but constructed another type of building and got approval later on from this department, the Infrastructure and Amenities charges can be adjusted. But in any case no refund of I & A charges will be allowed"

மனுதாரர் ஏற்கனவே செலுத்திய I & A கட்டணத் தொகை ரூ.5,64,75,000 தற்போதைய ஒப்புதலுக்கு பின்னர் கணக்கீட்டுத் தொகை ரூ.3,85,01,250 மனுதாரர் கூடுதல் தொகை ஏற்கனவே செலுத்தியுள்ளதால் மனுதாரரிடம் தற்சமயம் கேட்பு (Demand) செய்யப்பட்டது பார்வை 11-ல் காணும் சுற்றறிக்கையின்படி மனுதாரர் செலுத்தப்படவில்லை எனவும் தெரிவிக்கப்படுகிறது.

As per the Suggestion of the Technical committee meeting: (The Commissioner of Town and Country Planning, in its file No.6830/2013-T, dated: 08.04.2013 in - Subject No.4) The: Section 50 of the Town and Country Planning Act prescribes that every Planning permission accorded under Section 49 shall be in force for a period of 3 years and the same can be extended for another term of not exceeding 3 years on application prior to expiry of the first permission. As far as the collection of charges while considering for renewal, it is found that collection of development charges/I &A charges

second time for the same development is not justified. It has also been ascertained that local bodies do not collect development charges or other charges while considering for renewal of license except collecting license fee. Planning authority does not collect any separate planning permission fee. Therefore, the Technical Committee is suggested that no charge Viz., development charge, I & A charge need not be collected except the scrutiny fee in the circumstances stated as above. but if charges of I & A is there in case of higher rate now, difference to be collected, but if lower rate now, no refund to be given, however, specific cases requiring clarification shall be referred for detailed examination and advice of the CTCP என தெரிவிக்கப்பட்டுள்ளது அதன்படி பார்வை-12ல் காணும் கடிதத்தில் பெறப்பட்ட அறிவுரை அடிப்படையில் மனுதாரரிடம் நன்னிலை வரிக்கட்டணம் மட்டும் பெறப்பட்ட அறிவுரை அடிப்படையில் மனுதாரரிடம் நன்னிலை வரிக்கட்டணம் மட்டும் பெறப்பட்டுள்ளது.

திருத்திய பலமாடி வணிக உபயோகக் கட்டிட வரைபடங்களுக்கு நகர் ஊரமைப்புச் சட்டம் 1971, பிரிவு 49(i) (ii) (iii)-ன் கீழ் திட்ட அனுமதி எண்.9 (1 முதல் 18 வரை) / 2016 என எண்ணிடப்பட்டு திட்ட அனுமதியும் வழங்கப்படுகிறது.

இந்த திட்ட அனுமதி நகர் ஊரமைப்புச் சட்டம் 1971, பிரிவு 50-ன் படி திட்ட அனுமதி அளிக்கப்பட்ட தினத்திலிருந்து 20 .04.2016 முதல் 19.04.2019 வரை மூன்று ஆண்டுகளுக்கு மட்டுமே செல்லத்தக்கதாகும்.

## சிறப்பு நிபந்தனைகள்:

- 1. The Project proponent/ Applicant shall not commence any activity, excepting fencing of the site and construction of temporary shed for guard, without obtaining Environment clearance under the EIA Notification, 2006 from the State Level Environment Impact Assessment Authority or the ministry of Environment and Forests, Government of India, as applicable to the project, as per the threshold limits. Any violation from the above requirement is liable for action under section 19 of the Environment (protection) Act, 1986
- 2. It is responsibility of the builders to ensure safe bearing capacity of the soil and adequacy of the foundations.
- 3. மத்திய மற்றும் மாநில அரசு துறையினரிடமிருந்து பெறப்பட்ட தடையின்மை சான்றிதழில் குறிப்பிடப்பட்டுள்ள நிபந்தனைகள் அனைத்தும் கண்டிப்பாக நிவர்த்தி செய்யப்பட வேண்டும்.
- 4. Planning Permission is issued in accordance with the provisions of the Town and Country Planning Act and the rules made there under and does not cover the structural stability aspects including the safety during the construction which are covered under the Building Rules under the Local bodies Act. Planning Permission is issued subject to the condition that the applicant / developer and also the architects / Licensed Surveyors and the Structural Engineer associated with the development shall ensure that developments shall be structurally sound and adequate safety measures are taken during the process of construction.
- Applicant should obtain consent from Tamil Nadu Pollution Countrol Board Under Section 25 of the water Act 1974 for discharge of sewage.

6. "நகர் ஊரமைப்புத் துறை சட்டபூர்வமாக தொழில்நுட்ப அனுமதி / திட்ட அனுமதி விண்ணப்பதாரரின் பேரில் உள்ள நில மூலம் உறுதிபடுத்தவில்லை. தொழில்நுட்ப அனுமதி / திட்ட அனுமதி அளிப்பதற்கு முன்பு விண்ணப்பத்தாரரின் விண்ணப்பத்துடன் சமர்ப்பித்த ஆவணங்கள் (கிரய பத்திரம்) குத்தகை பத்திரம், பட்டா, தானப்பத்திரம், பொது அதிகாரப் பத்திரம் மேலும் பல) உரிமையுள்ளதா செய்ய வளர்ச்சி விண்ணப்பதாரர் சரிபார்க்கப்படுகிறது. அதன் மூலம முதற்கட்டமாக விண்ணப்பதாரருக்கு வளர்ச்சி செய்ய உரிமை உள்ளதா என்று பார்க்கப்படுகிறது.

சொத்தினை வாங்க விரும்பும் எந்த நபரும், விண்ணப்பதாருக்கு சொத்தின் மீது உள்ள உரிமையை தனியாக உறுதிபடுத்திக் கொள்ள வேண்டும். மேலும் அதன் மேல் வேறு யாரேனும் தனிநபர் உரிமை கோரினாலோ அவர்கள் அதனை பொருத்தமான தகுதியுள்ள நீதிமன்றத்தின் முன் தீர்த்துக் கொள்ளலாம். இதனை முடிவு செய்ய நகர் ஊரமைப்பு துறை பொருத்தமான அமைப்பு அல்ல".

- 7. The conditions given in the fire NOC and AAI NOC should be followed.
- 8. Swimming Pool should be operated after obtaining clearance from the District Level committee as per Go.Ms.No.97 MAWS (MA-1) Department datd 07.07.2015
- 9. Necessary clearance should be obtained from the District Collector for Multiplex
- 10. NOC should be obtained for Gas Bank & Diesel bank proposed before operation from the concerned authorities
- 11. நகர் ஊரமைப்பு இயக்குநர் அவர்களின் சுற்றறிக்கை ந.க.எண் 05013/2015 MP, நாள் 19.03.2015-ன் படி "கட்டுமானங்கள் நடைபெறும் இடத்தில் பொது மக்கள் வளர்ச்சிக் கட்டுப்பாட்டு பலகையில் வகையில் தெரியும் அனைவருக்கும் விதிகளின்படி தளப்பரப்பு விகிதம் (FSI), திறவிடங்கள் (setback) வாகனம் நிறுத்தம் மற்றும் பல நிறுவப்பட்டிருக்க வேண்டும்".
- 12. "The provisions in the G.O (Ms)No.17, H & UD (UD4) (3) department, dated:05.02.2016 relating to installation and use of Solar energy system, should be followed."

## நிபந்தனைகள்

- 1. உத்தேச பலமாடி திருத்திய வணிக உபயோகக் கட்டுமானத்திற்கு Solar Water Heating System அமைக்கப்பட வேண்டும்.
- வரைபடத்தில் உத்தேசிக்கப்பட்டவாறு வாகனம் நிறுத்துமிடம் அந்த பயனுக்காகவே பயன்படுத்தப்பட வேண்டும்.
- 3. மனையில் காட்டப்பட்டுள்ள திறவிடங்கள் அதன்படியே நிலை நிறுத்தப்பட வேண்டும்.
- 4. தற்போது ஒப்புதல் பெறப்பட்ட வரைபடத்திற்கு மாறாக கட்டிடத்தில் எவ்வித மாற்றமும் செய்தல் கூடாது. மாற்றங்கள் ஏதேனும் செய்வதாக இருந்தால் இவ்வலுவலகத்தின் முன் அனுமதி பெறப்பட வேண்டும்.
- 5. மழைநீர் சேகரிப்பு வசதிகள் வரைபடத்தில் காட்டப்பட்டுள்ளவாறும், அரசாணை எண்.138, நகராட்சி நிர்வாகம் மற்றும் குடிநீர் வழங்கல்துறை நாள் 11.10.2002-ன் படி கட்டிடத்தில் செயல்படுத்தப்பட வேண்டும்.
- 6. உத்தேச கட்டிடத்தில் இருந்து வெளியேறும் கழிவுநீர் தனியார் வாகனங்கள் மூலம் வெளியேற்றவும், குடியிருப்போருக்கு பாதுகாக்கப்பட்ட குடிநீர் வசதிகள் மற்றும் இதர

தேவைக்கான நீர் வசதிகள் ஆகியவை மனுதாரர் தனது சொந்த செலவில் செய்து தர வேண்டும்.

- 7. மணையில் அமையும் குடிநீர் மேல்நிலைத் தொட்டி மற்றும் கிணறு ஆகியவற்றுக்கு கொசு தடுப்பு சாதனம் பொருத்தப்பட வேண்டும்.
- 8. உத்தேச கட்டுமானத்தில் விதிப்படி தேவையான அளவுக்கு தீ தடுப்பு மற்றும் தீயணைப்பு சாதனங்கள் அமைக்கப்பட வேண்டும்.
- 9. அரசாணை எண்.341, நகராட்சி நிர்வாகம் மற்றும் குடிநீர் வழங்கல் (ந.நி.1) துறை, நாள் 03.11.2004-ன் படி செப்டிக் டேங்கில் "U" Trap அமைத்தல் வேண்டும்.
- 10. சுற்றுச் சூழல் மற்றும் வனத்துறை அறிவிக்கையின்படி உத்தேச கட்டிடத்திற்கு Fly Ash Bricks மற்றும் Materials பயன்படுத்தப்பட வேண்டும்.
- 11. அங்கீகரிக்கப்பட்ட வரைபடத்தின் நகல் (உண்மை நகல்) கட்டுமானங்கள் நடைபெறும்போது அவ்விடத்தில் அனைவருக்கும் தெரியும் வகையில் பலகையில் நிறுவப்பட்டிருக்கவேண்டும்.
- 12. அங்கீகரிக்கப்பட்ட வரைபடத்தில் அசல் நகலுடன் ஏற்கனவே அளிக்கப்பட்ட உத்தரவு மற்றும் இவ்வாணையின் நகல் வாங்குபவர்களுக்கு வழங்க வேண்டும்.

திட்ட அனுமதி அளிக்கப்பட்ட உத்தரவு கடிதம் மற்றும் வரைபடங்கள் இரண்டு தொகுப்புகள் இத்துடன் இணைத்து அனுப்பப்படுகிறது.

மனுதாரர் மேற்கொண்டு முட்டுக்காடு ஊராட்சி மன்றத் தலைவர் அவர்களை அணுகுமாறு தெரிவிக்கப்படுகிறார்.

மேலும் திட்ட அனுமதி அளிக்கப்பட்ட உத்திரவு கடிதம் மற்றும் வரைபடங்கள் பெற்றுக் கொண்டதற்கான ஒப்புகைச் சான்றினை இவ்வலுவலகத்திற்கு அனுப்பி வைக்குமாறு முட்டுக்காடு ஊராட்சி மன்ற தலைவர் அவர்கள் கேட்டுக் கொள்ளப்படுகிறார்.

> உறுப்பினர் செயலர் (பொ) மாமல்லபுரம் உள்ளூர் திட்டக் குழுமம்,

> > மாமல்லபரம்

இணைப்பு :

ஒப்புதலளிக்கப்பட்ட வரைபடங்கள் - 2 தொகுப்பு 🤝 🧡

பெறுநர்

ஊராட்சி மன்றத் தலைவர், முட்டுக்காடு ஊராட்சி, திருப்போரூர் வட்டம், காஞ்சிபுரம் மாவட்டம்.

நகல்

- M/s.Allied Majestic Promoters OMR Mall Developers (P) Ltd., City Tower, 5<sup>th</sup> Floor, No.117, Sir Thiyagaraya Road, T.Nagar, Chennai - 17
- நகர் ஊரமைப்பு இயக்குநர், சென்னை அவர்களுக்கு பணிந்து சமர்ப்பிக்கப்படுகிறது.

SITE PLAN

gmc-allied investment-sm-navallur-gt-433 \* AMIRTHANGAM DENOTES BORE HOLE --- NAVALLUR LEGEND: 1.0 SITE PLAN SHOWING THE LOCATION OF FIELD INVESTIGATION POINT **⊕** BH-2 BH-1 1 BH-7 AT NAVALLUR, CHENNAI 11.0m BH-5 SYCONS INFOTECH PARK KELAMBAKKAM ▲ HIRANANDAM GEO MARINE

SOIL PROFILES

Project: Proposed Construction of Shopping Mall (2B+G+9Floor) at Navalur - Chennai.

Location: Navalur RL of G.L.: \*-5.50 m R.L. of G.W.T: -3.000 m

Bore Hole No.: BH- 1 Started on: 09/07/07 Ended on: 11/07/07 Dia of Bore: 150mm

Bore Hole No.: BH- 1	Started on: 09/07/07 Ended on: 11/07/07 D	ia. of Bore:		
Stratification Data	SPT - Data		Type of Sample	
G.W.T. (m)  G.W.T. (m)  G.W.T. (m)  Soil Profile	No. of Blows for Pent. (cm) 0 10 20 30 40 50 60 70 80 90		Type of	
N THIS LEVEL DEPTH OF-5.50 m FROM THE I 5.50 m DEPTH EXCAVATED, SO DONE 1	REFERENCE ROAD LEVEL(ALREAD' 'HE SOIL TEST BELOW 5.50 m)			
-6.000 Greyish to Whitish Cla Medium Coarse San	yey	0.500	_ C	
Greyish to Greenish M. I Weathered Sand with Pe Angle of Shearing Resis	bbles   Side   S	-6.500	,	
7.500	-7.500 7 10 12 22	-7.500	,	
Greenish to Greyish M. D Weathered Sand Angle of Shearing Resis				
8.500	-8.500 12 10 Cm Penet. For 50 Blows	-8.500		
		1 7 7 8		
	-9.500 SPT Hammer Rebounded	-9.500		
Yellowish to Brownish	-10.500 SPT Hammer Rebounded	-10.500	(1	
Weathered Granite Angle of Shearing Resis 42.50	-12.000 SPT Hammer Rebounded	-12.000		
	-13.000 SPT Hammer Rebounded	-13.000	5	
4.500	-14.000	-14.000	c	
Bronwish to Greyish Hig Fractured (Jointed) Har		-15.000	C	
Granite Angle of Shearing Resist	C.R.R. 22% R.Q.D. 0%	-16.300	C	
	-16.500	-16.500	С	

Borehole terminated at -16.5 m depth below E.G.L.

## FIG.2.1Sub Soil Profile at BH-1 Location

\* Bore Hole Drilled from the excavated pit bottom of 5.5m depth from the road level.

(For basement construction)

Project: Proposed Construction of Shopping Mall (2B+G+9Floor) at Navalur - Chennai.

Location: Navalur RL of G.L.: \*-2.50 m R.L. of G.W.T: -2.500 m

Bore Hole No.: BH- 2 Started on: 09/07/07 Ended on: 11/07/07 Dia of Bore: 150mm

ed Hate	ole No.: B	Stratification I	lata	1	Exercises and the second of th									Dia.	of Bore				
>		auncation I	Jala		SPT - Data										Type of Sa				
Belov n)	(E)	De De	escription of Soil	700	11	o. of Blo Pent. (		0	10	20	30	40	50	60	70	80	90	Ja (E)	
Depth Below G.L.(m)	G.W.T. (m)	50	soription of soil	Depth of SPT (m)	0-15	15-30	30-45	N										Depth of Sample(m)	Type of
IN THIS 2.	LEVEL DI	PTH OF-2.50 TH EXCAVAT	m FROM THE REFE ED, SO DONE THE	ERENCE SOIL TES	ROAL ST BE	LEVE	L(ALF 2.50 m)	EAD'											1
			2	-3.000														-3.000	
	2	Medi	to Whitish M. Dense um Coarse Sand Shearing Resistand	-3.500	6	8	12	20		(								-3.500	S
		Property of	33.9 <sup>0</sup>	-4.500	13	13	13	26										-4.500	s
-5.500				-5.500	10	9	13	22		(								-5.500	S
		We	to Greyish M. Dense eathered Sand Shearing Resistanc	-6.500	11	13	14	27	18					,				-6.500	s
7.500			34.50	-7.500	10	11	15	26										-7.500	S
		Weathr	o Brownish M. Dense ed Silty Fine Sand Shearing Resistance 35.1°	-8.500	9	12	17	29		)	\	_						-8.500	5
9.500				-9.500	17	29	35	64						+	\			-9.500	8
		Wea	to Yellowish Highly thered Granite Shearing Resistance 42.5°	-10.500	25	44	50	94								\	7	-10.500	S
1.500			42.5	-11.500	24	52	14 cr	n pen	et. For	50 blo	ows						\	-11.500	S
			•	-12.500	27	14 cm	penet.	For 5	0 blow	'S								-12.500	S
		Weat	to Brownish Highly thered Granite hearing Resistance 42.5 <sup>0</sup>	-14.000	39	8 cm p	enet. F	or 50	blows									-14.000	Si
5.500				-15.500	8 cm	penet.	For 50	blows	5									-15.500	C
		4.	to Brownish Hard Granite nearing Resistance	-16.500		R. 66%	1											-16.500	CS
-		1	45 <sup>0</sup>	-17.505	U.K.F	84%	K.Q.D.	71.59	/o									-17.505	CS

Borehole terminated at -17.505 m depth below E.G.L.

## FIG.2.2Sub Soil Profile at BH-2 Location

\* Bore Hole Drilled from the excavated pit bottom of 2.5m depth from the road level.

(For basement construction)

Project: Proposed Construction of Shopping Mall (2B+G+9Floor) at Navalur - Chennai.

Location: Navalur RL of G.L.: \*-5.50 m R.L. of G.W.T: -2.800 m

		o.: BH-		7	3 011	: 11/0						U/		_	_	_	Dia.	of Bore	
	7	Str	atification Data			ELL			SPT -	Data									pe of
Depth Below G.L.(m)	(m)	rofile	Description of Soil	ص و ش		of Blo Pent. (		0	10	20	30	40	50	60	70	80	90		I
Depth G.L.(r	G.W.T.	Soil Profile	2 333 pagn 31 331	Depth of SPT (m)	0-15	15-30	30-45	N										Depth of Sample(m)	Type of
N THIS 5.	LEV 50 m	DEPTH	TH OF-5.50 m FROM THE REFE EXCAVATED, SO DONE THE S	RENCE SOIL TES	ROAD T BEI	LEVE LOW 5	L(ALR .50 m)	READ											
			Greek valvantar talen Vanhere ta al-	-6.000														0.500	0
5 (1)			Greyish to Bronwish M. Dense	-6.500	6	6	11	17		1								-6.500	S
			Weathered Sand Angle of Shearing Resistance 33°		7	11	13	24										-7.500	S
1.000				i i ugi							\	\	\	\				1.500	
3.500		×	Provide Assertation (1971)	-8.500	13 C	m Pen	et. For	55 BI	ows							\	\	-8.500	5
.500		7	Brownish to yellowish Highly Weathered Granite Angle of Shearing Resistance		40	33		50.01											
,300		Z	42.5°	-9.500	1	m Pene R. 12 % I												-9.500	
		Y		-10.500		- 44												-10.500	S
		X	a Degree of a second of a se		C.R.F	R. 12 %	ا R.Q.I ہ	ا 0.0%											
		X	Allega of Missarran	-12.200		1	-	-										-12.200	5
		V	Description by the	+	C.R.F	R. 85 %	R.Q.I	D. 0%											
-		/		-12.700	CRE	R. 80 %	ROI	2 0%										-12.700	5
			Brownish to Yellowish Fractured (Jointed) Hard Granite	1	- 1	R. 55 %	- 1	- 1					9.1					-13.050	S
		Y	Angle of Shearing Resistance 45 <sup>0</sup>	10.000	-	R. 50 %	- 1	1		:								-13.500	S
		Y		-15.000	-													-15.000	С
		Y		+	C.R.R	. 52 %	R.Q.D	0.0%											
			Aces of Frenching Loss Street	-15.500														-15.500	С
		\/	N. J.	+	C.R.R	. 20 %	R.Q.D	. 10%											
		V		-17.200														-17.200	C

Borehole terminated at -17.2 m depth below E.G.L.

#### FIG.2.3Sub Soil Profile at BH-4 Location

\* Bore Hole Drilled from the excavated pit bottom of 5.5m depth from the road level.

(For basement construction)

#### Geo Marine

Project: Proposed Construction of Shopping Mall (2B+G+9Floor) at Navalur - Chennai.

Location: Navalur RL of G.L.: \*-3.00 m R.L. of G.W.T: -1.500 m

Bore Hole No.: BH- 5 Started on: 13/07/07 Ended on: 19/07/07 Dia. of Bore: 150mi

bore Ho	sore Hole No.: BH- 5				Started on: 13/07/07 Ended on: 19/07/07 Dia.									of Bore : 150m					
		Sti	ratification Data			35,00			SPT -	Data									pe of mple
Depth Below G.L.(m)	G.W.T. (m)	Soil Profile	Description of Soil	Depth of SPT (m)	11	of Blo Pent. (		0 N	10	20	30	40	50	60	70	80	90	Depth of Sample(m)	Type of
IN THIS	LEV .00 m	DEPTH	TH OF-3.00 m FROM THE REFE EXCAVATED, SO DONE THE S	RENCE F	ROAD	LEVEL	/ALRE	ADY								-!-			
-3.800	-		Brownish to Greyish Silty San	-3.500														-3.500	D
		-	Greyish to Whitish M. Dense Weathered Sand. Angle of Shearing Resistand	-4.000	10	11	11	22										-4.000	S
-5.000			33.60	-5.000	8	10	11	21										-5.000	S
			Greyish to Yellowish M. Dense Silty Fine to M Sand Angle of Shearing Resistance	-6.000	5	8	11	19	,									-6.000	S
7.000		000	33 <sup>0</sup> Greenish to Yellowish Loose		4	5	6	11	1	\								-7.000	SS
-8.000		000		-8.000	5	12	30	42			\	×	\	_				-8.000	SS
		5		-9.000	24	35	48	83							\	X	\	-9.000	S
		K.	400	-10.000	8 cm	penet.	For 50	l wold (	S								1	-10.000	S
		5	,	-11.000	10 cm	n pene	t. For 5	l Joblov l	vs				4					-11.000	SS
		5	Greyish to Brownish V. Dense Weathered Rock	-12.000	9 cm	penet.	For 50	l blow:	3									-12.000	S
		7	Angle of Shearing Reesistance 42.5 <sup>0</sup>	-13.000	9 cm	penet.	For 50	blows	S									-13.000	S
		5	Steps of Ste	-14.500	8 cm	penet.	For 50	blows	•									-14.500	SS
		3		16.000	7 cm	penet. Pieces			i									16.000	CS
6.500		$\Diamond$	Committee Services	-16.500	Small	Pieces	Reco	vered										-16.500	CS
		4	Brownish to Greyish V. Dense Weathered Granite Angle of Shearing Resistance	-18.500	Small	Pieces	Reco	vered										-18.500	CS
		1	42.5°	-20.200	Small	Pieces	Recov	vered										-20.200	CS
1.500		$\preceq$	Greyish V. Dense Fractured	-21.500	CRR =	28 %	& ROI	) = 14	. %									-21.500	CS
		V	(Jointed) Hard Granite Angle of Shearing Resistance 45 <sup>0</sup>	22:250														22.250	CS

Borehole terminated at m depth below E.G.L.

FIG.2.4Sub Soil Profile at BH-5 Location

Bore Hole Drilled from the excavated pit bottom of 3.00m depth from the road level.

(For basement construction)

Project: Proposed Construction of Shopping Mall (2B+G+9Floor) at Navalur - Chennai.

Location: Navalur

Bore Hole No.: BH- 7

Started on: 20/07/07

RL of G.L.: \*-5.50 m R.L. of G.W.T: -3.000 m

Pia, of Bore :150m

-	Bore	Hole	No.:	ВН-	7	Starte	ed on	: 20/	07/07	End	led on	: 23/0	7/07	m F	۲.L.	of G	.W.		-3.000 of Bor		
				Stra	tification Data						SPT - E		18						Туре		_
	Depth Below	and the same		Soil Profile	Description of Soil	Depth of SPT (m)	0-15	Pent. (	30-42 (mɔ	0 N	10	20 30	40	50	60	70 8	30 \$	90	Depth of Sample(m)		Sample
	IN TH	5.50	m DE	PTH	H OF-5.50 m FROM THE REFER EXCAVATED, SO DONE THE SO	RENCE OIL TES	ROAD ST BE	LEVE	L(ALF	EAD'										Ť	0,
	-6.30				40	-6.000													-6.000	) [	os
		-			Greyish to Greenish M. Dense Silty Fine to Medium Coarse Sand. Angle of Shearing Resistance	-6.500	8	10	12	22	/	/							-6.500	s	S
		-			31.6°	-7.500	5	6	9	15	1	\	_	\- <u>`</u>	_				-7.500	s	S
-	-8.500			7		-8.500	41	8 Cm	Penet.	For 50	) Blows		112				_	$\dashv$	-8.500	S	S
			X	7	Greyish to Greenish V. Dense Weathered Rock Angle of Shearing Resistance	-9.500	15 cr	n pene	t. For (	I 60 Blov	ws								-9.500	S	5
	11.500	-	K	\ \		10.500				1								1	-10.500	SS	>
	11.000		Ź			11.500	1	Pieces	1	1	vs								-11.500	SS	
			K		Brownish to Whitish V. Dense	12.500		1	-		i	, spec						-	12.500	cs	
			H		Highly Weathered Granite Angle of Shearing Resistance 42.5°	3.500		Pieces					3.5					-	13.500	cs	
-1	5.500		\rangle \rangl		Greenish to Grey Higly Compacted V. Dense	5.500	C.R.R.	30% F	R.Q.D.	0%									15.500	CS	
			X	/ Gi	Fractured (Jointed) Hard Granite Charnockite or Hypersthene ranite Rock (Basically this is igneous Rock, Medium to Coarse Grain Structure,	6.700	) C.R.R.	62.5%	R.Q.[	), 34%			1152					-1	6.700	CS	
			$\vee$	I N		7.500												-1	7.500	CS	

Borehole terminated at -17.5 m depth below E.G.L.

# FIG.2.5Sub Soil Profile at BH-7 Location

\* Bore Hole Drilled from the excavated pit bottom of 5.5m depth from the road level.

(For basement construction)



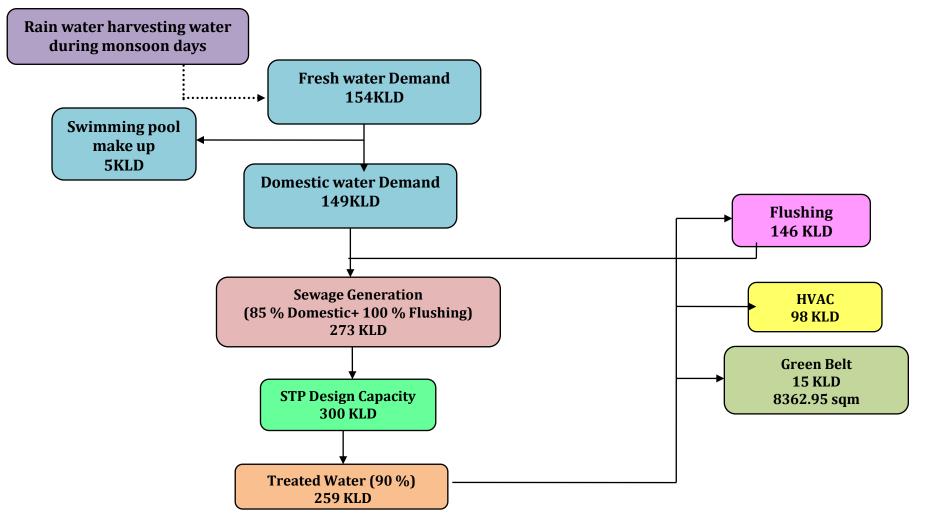
# **WATER DEMAND- MALL & APARTMENTS**

annexure - 4

Facilities	Area	Occupant	Occupancy	Water Requirement						
	(Sq.ft)	load		Domestic	Demand	recycle wat	er Demand	Total		
		(sq.ft/ person)		Demand/ Head /day	Total	Demand/ Head /day	Total	water requirem ent		
Retail	119000	65	1830	10	18300	5	9150	27450		
Hyper market	52000	65	800	10	8000	5	4230	12230		
Anchor	95000	65	1462	10	14620	5	7310	21930		
Food court			1000	50	50000	20	32000	82000		
Multiplex			500	10	5000	5	10000	15000		
Kiosks			100	10	1000	5	500	1500		
Swimming pool					5000			5000		
Employees			200	30	6000	15	59250	65250		
Maintenance Staff			50	30	1500	15	750	2250		
Apartments (106 Nos)			500	90	45000	45	22500	67500		
HVAC Make up							97500	97500		
Green Belt							15000	15000		
Total			6442		154420		258190	412610		
Water Demand KLD					154 KLD		259	413		
Sewage to S domestic + Flushir	100 % ng)					273.0				
STP Cap	acity				300KLD					



# WATER BALANCE SHEET- MALL & APARTMENTS



Total Water requirement – 413 KLD (Fresh water 154KLD + Recycle – 259KLD)

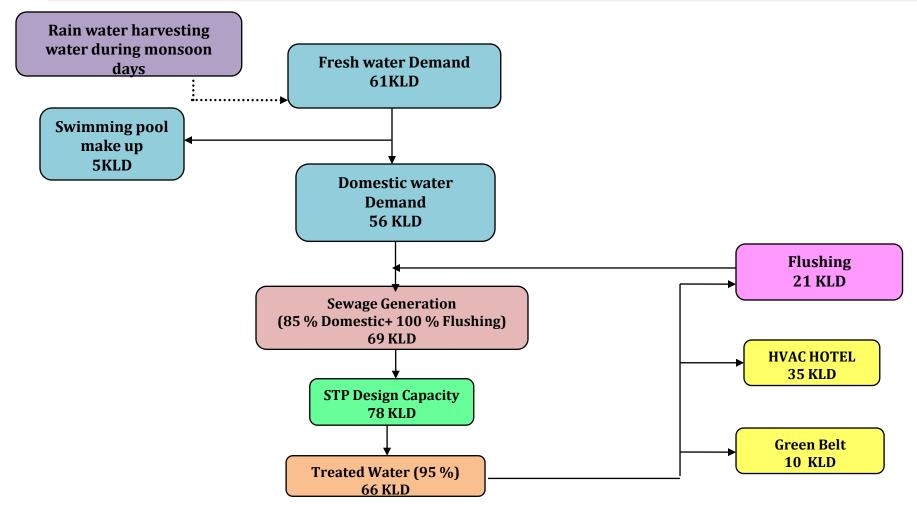


# WATER DEMAND- HOTEL

Facilities	Occupan	pan Water Requirement								
	су	Domestic	Demand	Recycle	water	Total water				
		Demand/ Head /day	Total	Demand/ Head /day	Total	requirement				
Maintenance Staff	25	30	750	15	375	1125				
Hotel rooms (126 Nos)	300	135	40500	45	13500	54000				
			Hotel Staff (300	Nos)						
Residential (30%)	90	90	8100	45	4050	12150				
Non Residential -70%	210	30	6300	15	3150	9450				
Swimming pool			5000			5000				
Green belt					10000	10000				
HVAC makeup water HOTE					35000	35000				
Total	625		60650		66075	126725				
Water Demand Say KLD			61		66	127				
Sewage to STP domestic + 1 Flushing	00 %			69.	00					
STP Capacity				78 F	(LD					



# WATER BALANCE SHEET -HOTEL

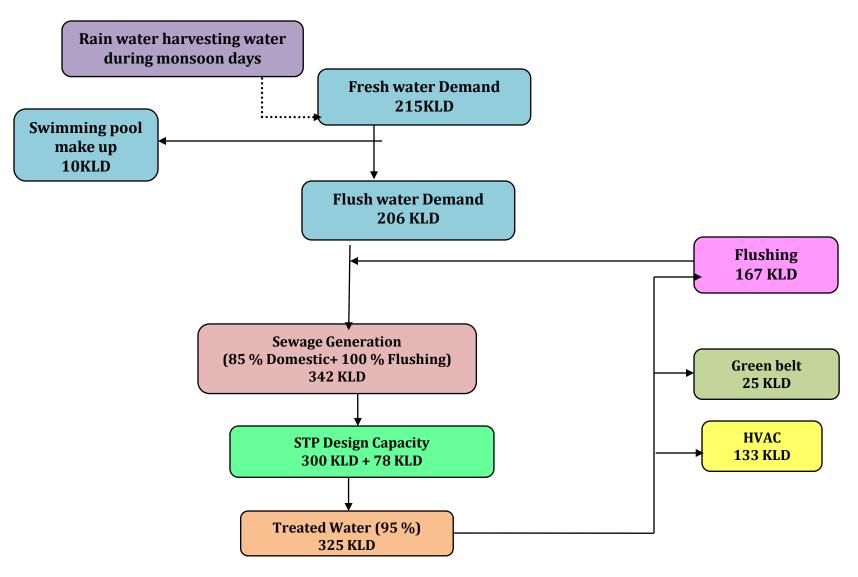


Total Water requirement – 127 KLD (Fresh water 61 KLD) + Recycle –66 KLD)

Note: Valet Laundry. No laundry effluent



# **WATER BALANCE SHEET - COMBINED**



Total Water requirement – 540 KLD (Fresh water 215 KLD + Recycle – 325 KLD)



டுக்காடு ஊராட்சி மன்றம்

34, ஏகாட்ஞர், திருப்போளர் ஒன்றியம்,

காஞ்சிபுரம் மாவட்டம் - 603 103.

C58 13.03.2014

## ப்பலைக்றன்

தலைவர்

நெ.4/145, ராஜீவ்காந்தி சாலை, 34,ஏகாட்டூர், படூர் அஞ்சல், காஞ்சிபுரம் மாவட்டம் – 603 103.

ஊராட்சியின் இலவச சட்ட ஆலோசகர்

\$**७. М. एप्रामानिर्मे** कार्ण В.А., В.Ь.,

மாவட்ட நீதி மன்றம், செங்கற்பட்டு - 603 102.

ВФ. **R. БОТВЕНГОТ** М.А.,В.L.Ры.

உயர்நீதிமன்றம், சென்னை, மாவட்ட நீதி மன்றம் செங்கல்பட்டு

## R.C.No.171/2013-2014

### Revalidation of Water Allotment Letter

1. Allotted Name and Address

: Allied Majestic Promoters (P) Ltd

"CITY TOWER" 5th Floor, 117, Theyagaraya Road,

T. Nagar,

Chennai 600 017.

2. Allotment Reference

: Your application Letter dated

Ni

3. Allotment Basis

: D.T.C.P Infrastructure and Development

Charges as Vide Ltr. No.141/07 dated 06/06/08 (Copy of Letter Attached)

4. Water Quantity Applied

: 545 KLD

Water Quantity Approved (Max): 545 KLD

6. Municipality water Source

: Tube Wells and Pallikaranai Lake

7. Municipal source Availability

: Perennial

8. Raw Water Quality

: 1. Meets DW Standards

Bacteriological-Non Assured
 Note: Refer Analysis report attached

9. Water supply deposit

: Rs.1,25,000/- Payable to Chairman

Muttukadu Panchayat By DD

10. Water Supply Charges

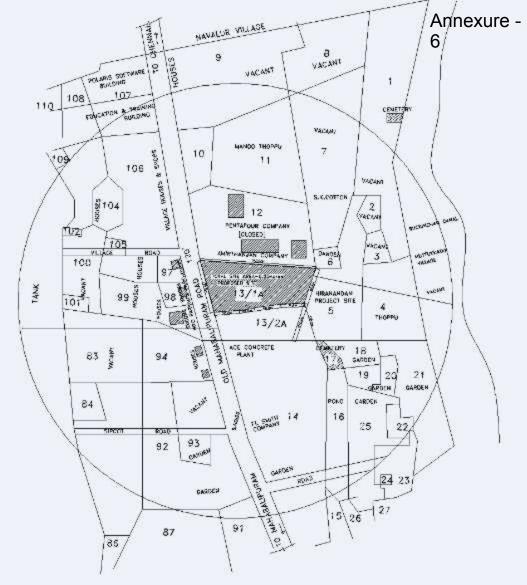
: Rs.18.50 / KI (Payable in monthly

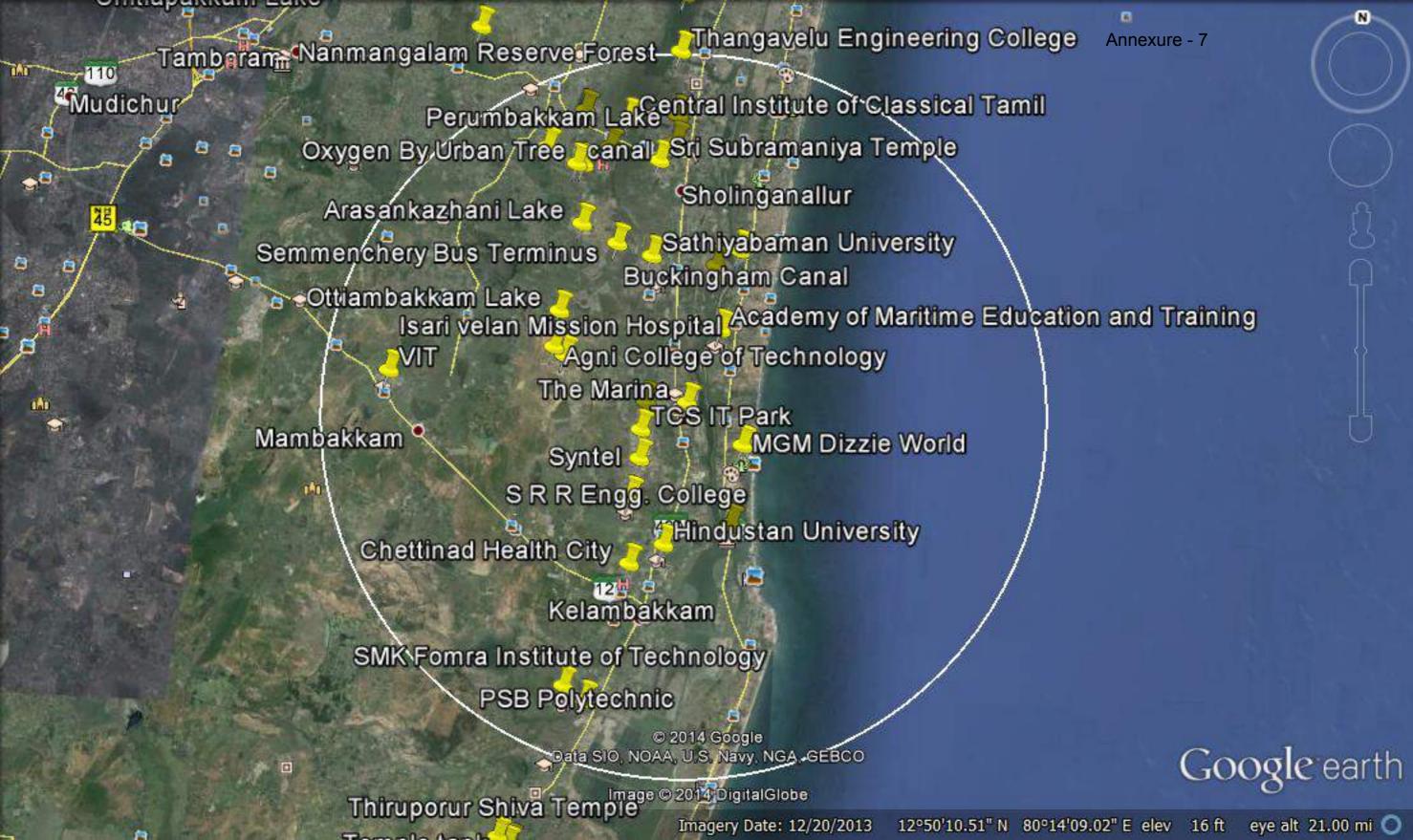
Advance and adjustable against

advance)

We are pleased to offer the above allotment.

தலைவர் 3 03 10 முட்டுக்காடு ஊராட்சி தகுப்போருர் ஊராட்சி ஒன்றியம் காஞ்சியுரம் மாவட்டம் - 603 103





Annexure - 10 N+105 N+100 N+095 N+090 N+085 N+080 N+075 N+070 N+065 N+060 N+055 N+050 N+045 N+040 N+035 N+030 N+025 N+020 N+015 N+010 N+000 E+135 E+140 E+145 E+100 E+105 E+120 E+130 E+160 E+165 E+185 AREA STATEMENT: RDAD WIDENING AREA IS 1262.09 SQM. DR 31.19 CENTS. (INCLUDING COMPOUND WALL & FENCING AREA) PROPERTY AREA IS 25281.20 SQM. OR 6.25 ACRES. (INCLUDING COMPOUND WALL & FENCING AREA) TOTAL AREA IS 26543.30 SQM. OR 6.56 ACRES. (INCLUDING COMPOUND WALL & FENCING AREA) AMRUTANJAN CO. LTD. 1. ALL DIMENSIONS ARE IN METRES. **1**UTTUKADU abide Landmark CLIENT SURVEYORS & ENGINEERS M/S. ALLIED INVESTMENTS AND HOUSING PVT. LTD. #92(old:57A), West Jones Road, Saidapet, Chennai-600 015. Ph:- 55690281, Mobile: 9840166595 E.mail: landmarkengineers @yahoo.co.in CHENNAI-17. SITE UNDER CONST. SITE S.F.NO; 13/1, OLD MAHABALIPURAM ROAD, EGATTUR, NAVALUR, NAME DATE SURVEYED K.G.S 14.02.2007 CHENGALPATTU-TALUK, KANCHEEPURAM-DISTRICT. DRAWN K.G.S 15.02.2007 TITLE SCALE CHECKED 1:600 APPROVED PLAN SHOWING THE DETAILED BOUNDARY MAP SHEET KEY PLAN DRAWING No: AND EXISTING FEATURES. (NOT TO SCALE) NA/001/2007



# Rain water harvesting system

# **❖ Rain Water Harvesting Calculation**

# **❖** Basic assumptions:

- Intensity of rainfall considered: 500 mm (as on 1 December 2015\*)
- Co efficient of runoff considered for road area : 0.70
- Co efficient of runoff considered for landscape area : 0.20
- Co efficient of runoff considered for roof area : 0.90

## Area statement:

- Road Area (A) : 1911.27 Sq.m x 0.70 x 0.5 m = 669
- Roof Area (B) : 9939.3 Sq.m x 0.90 x 0.5 m = 4473
- Green Area (C) : 8362.95Sq.m x 0.20 x 0.5 m =836
- Hence, total volume of rainwater run off will be: (A) + (B) + (C) = 5978 Cu.m/day.

(\*as per chennalwheather.org)

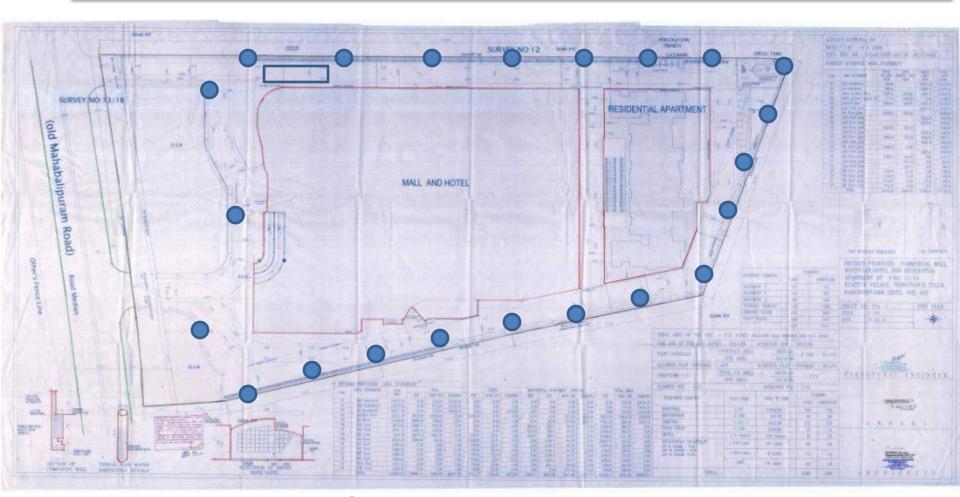


# Rain water harvesting system – (Cont ..)

- For roof top harvesting a sump of 160KL is proposed.
- Total rainwater available for recharging = 5818 m<sup>3</sup>/day
- Considering 15 min of rainfall (Max GWL 4.6 m)
- Volume of rainwater available for recharging =5818 / 24 hr = 60 m<sup>3</sup>
- Size of Rainwater Percolation Pit 1.2 m Dia X 2.5 m, Depth
- Total volume of pit= $3.14 \times (0.6)^2 \times 2.5 = 2.8 \text{ m}^3$
- Total number of Percolation pits required =21 nos.
- However No. of Pits proposed = 22 nos.
- Excess storm water will be diverted to existing storm water drain along OMR.



# Rain water harvesting system, Strom water Drainage plan— (Cont ..)

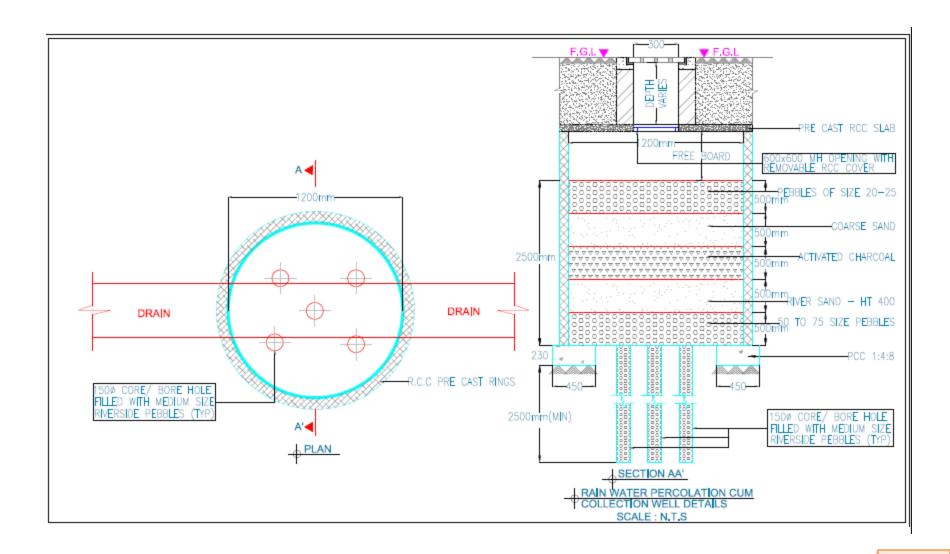


Rain water Harvesting Pits – 22 Nos.

Rainwater harvesting sump 160 KL



# Rain water harvesting system, Storm water Pit Cross Section detail – (Cont ..)



#### 1.0. SEWAGE TREATMENT PLANT FEASIBILITY REPORT:

It is proposed to install a sewage treatment plant, to treat the domestic effluent generated from the toilets, kitchen etc, and re-use the water for flushing ,gardening and HVAC cooling tower. The treated sewage water will be designed to meet the discharge limits as per the rules stipulated by the **Tamilnadu Pollution Control Board (TNPCB)**, in order to conserve water.

The sewage treatment plant will be designed to ensure that treated effluent characteristics are well below / within the permissible limits, even under varying flow conditions, which are typical for such systems. This implies that the selected process will be able to withstand the shock load situation.

A brief description of the process involved in treating the sewage is given below:

The sewage treatment plant is designed with a capacity to handle **78 cu.m** (approx.) of soil water from the building.

#### **QUANTITY AND QUALITY OF WASTEWATER:**

The quality of raw effluent is considered as:

The sewage treatment plant is designed taking the following parameters in to account:

#### **QUALITY OF WASTE WATER:**

BOD	300 to 350 Mg / Ltr.
COD	350 to 450 Mg / Ltr.
TSS	350 to 450 Mg / Ltr.
PH	7 to 8
Oil & Grease	100 to 150 mg / Ltr.

#### **QUALITY OF TREATED EFFLUENT:**

BOD	< 10 Mg / Ltr.
COD	< 100 Mg / Ltr.
TSS	< 20 Mg / Ltr.
PH	6.5 to 7.5.
Oil & Grease	< 10 Mg / Ltr.

#### 02. DOMESTIC EFFLUENTS CHARACTERISTICS:

#### **QUANTITY AND QUALITY OF WASTEWATER:**

The wastewater quantity from domestic sources is considered at maximum 78 Cu.m / day. The quality of raw effluent is considered as:

The sewage treatment plant is designed taking the following parameters in to account:

#### **QUALITY OF WASTE WATER:**

BOD5	300 to 350 Mg / Ltr.
COD	350 to 450 Mg / Ltr.
TSS	350 to 450 Mg / Ltr.
PH	7 to 8
Oil & Grease	100 to 150 mg / Ltr.

#### **QUALITY OF TREATED EFFLUENT:**

BOD5	< 10 Mg / Ltr.
COD	< 100 Mg / Ltr.
TSS	< 20 Mg / Ltr.
PH	6.5 to 7.5.
Oil & Grease	< 10 Mg / Ltr.

#### **03. DESCRIPTION OF TREATMENT UNITS:**

#### **SEWAGE TREATMENT PLANT TREATMENT**

#### **METHODOLOGY USING**

#### **EXTENDED AERATION ACTIVATED SLUDGE PROCESS**

#### PRIMARY TREATMENT

- Bar screening
- Grit Chamber
- Sewage Transfer Pumps

#### **SECONDARY TREATMENT**

- Air Blowers and Aeration Tank
- Diffusers
- Secondary Clarifier
- Return Sludge Pump
- Sludge drying beds

#### **TERITARY TREATMENT**

- Clarified water Tank
- Filter Feed Pumps
- Sand Pressure Filter
- Activated Carbon Filter
- Hypodosing system
- Final Sump

#### **DESCRIPTION OF TREATMENT UNITS:**

#### A. BAR SCREEN:

In the incoming channel, a chamber medium screen shall be fitted, the purpose of which is to filter out coarse trashy matter from introducing in to succeeding units of the treatment plant. Screens shall be made of M.S. construction epoxy painted.

Type : Manually cleaned with Handrake

Construction : In MS flats of size 20 x 6, c/c not more than

20mm with necessary MS flat 25 x 6 stiffeners.

The whole unit shall be given 2 coats of epoxy-based paint over a coat of epoxy based primer. 1 no. MS hand rake shall also be provided with GI pipe rod.

Channel size	0.1 mtrs W x 1.6 mtrs L x 0.75 mts D
Type of screen	M.S. Construction manually cleaned with MS flats placed at 20
	mm c/c with MS hand rake with handle all epoxy painted.

#### B. EQUALISATION TANK / COLLECTION TANK:

In order to homogenize the quality of wastewater, as well as to feed equalization tank at a uniform rate to the rest of the treatment plant, a equalization tank is proposed. In order to mix the contents, as well as to provide a degree of preparation, diffused aeration by means of membranes and blowers are proposed.

Capacity	20 cu.m
Aeration	MECHANICAL AGITATION.
Dimensions	As per drawing
D. P.	6 Hrs.

#### C. RAW EFFLUENT PUMP SETS:

The equalized and neutralized waste together with return sludge shall be pumped at a uniform rate of 3.25 cu.m / Hr. into the aeration tank.

Quantity : 2 Nos. (1w + 1s)

Duty : To transfer Raw Effluent from Equalization tank to Aeration

Type : Vertical submersible pump.

Motor : TEFC Motor with IP-55 protection and suitable for 400 / 440 V , 50 HZ

A/c supply of Kirloskar.

Material : CI Body and impeller in Bronze.

Accessories : Air cock with priming funnel, Flexible Coupling with guard, Base frame

foundation bolts etc.,

Flow rate : 3.25 cu.m / hr

Head : 15 mtr

Solids : 35 mm maximum

Temperature : Ambient

PH : 6.0 - 8.0

#### D. DOUBLE STAGE AERATION TANK:

Biological stabilization of the wastewater is accomplished in the aeration tank in the presence of microorganisms, for the respiration of which, Oxygen is supplied by means of diffused aeration comprising membrane diffusers and air blowers. As micronutrients such as nitrogen and phosphorus will be already present in sufficient quantities, no external supplementation will be necessary.

The aeration tank is divided in to two parts. Each Aeration Tank is provided with diffused aeration system to supply the air for the micro-organisms growth. The nutrients required for the micro-organisms growth are organic matter, which is present in the domestic effluent.

The MLSS level is maintained in this process to enhance the aeration process. Optimum concentration of MLSS to be maintained is in the range of 3500 – 4500 mg / lit in the aeration time the sludge starts to settle in this tank. Here the settling of the solids takes place and the clear water from the top pumped to the clear water tank.

Flow Quantity	78 cu.m / day
BOD in	350 mg / L
BOD out desired	10 mg / L
Tank volume / CAP	63 Cu.m (31.50cum x 2 Nos)
Diffusers	Fine pore diffusers.
F.M.	0.12
MLSS	3600 mg / Lit

#### E. AIR BLOWERS:

Туре	Twin lobe Compressor
Capacity	47 cu.m / hr at 0.50 KJC
Quantity	3 Nos. (2w + 1 s)

The Standard Air Requirement (SAR) is arrived at on the basis of 2 kg oxygen / Kg of BOD.

Quantity : 3 nos. (2w + 1s)

Type : Twin lobe compressor

Flow : As per system requirement

Make : Kay / CVT/ Equivalent (approved make)

#### F. SECONDARY SETTLING TANK:

The mixed liquor (waste water with micro – organism) exiting the aeration tank has to be clarified in a clarifier waster, as well as to thicken the biomass MLSS (mixed liquor suspended solids)

Size	As per drawing
Recirculation	75 %
Overflow	3.25cu.m / hr / sq. m

#### G. SLUDGE HOLDING TANK:

The biomass in the aeration tank stabilizes BOD in wastewater by consuming the organic matter in the wastewater. The metabolic activity results in growth of the biomass population in the aeration tank. Consequently, in order to contain the level of MLSS in the aeration tank to the design level of 3600 mg / L, it will be necessary to bleed off or waste the excess activated sludge. For this purpose a sludge holding tank of 4.00 cu.m with air supply & one no. filter press is proposed.

Capacity	4.00 cu.m / day
Size	As per drawing

#### **SLUDGE DISPOSAL PUMPS:**

Quantity : 2 nos. (1w + 1s)

Duty : To transfer secondary sludge from clarifier to

Aeration Tanks & sludge thickener.

Type : Horizontal centrifugal non-clog Self priming, open impeller, pumps,

Kirloskar, STORK Equivalent (approved by consultant)

Motor : TEFC Motor, with IP-55 protection and suitable for 400/440 V, 50 HZ

A/c supply of Kirloakar / grundofos make.

Material of Construction: Body and impeller in CI

Accessories : Air cock with priming funnel, Flexible Coupling with guard, Base

frame, foundation bolts etc.,

Flow : as per system requirement

#### H. FILTER FEED TANK:

The settled water from the settling tank is expected to meet the standards with respect to BOD and TSS for Discharge to island surface waters. However, it is proposed to improve the quality of treated water further in order to make it fit re – use. For this reason, further treatment in the form of coagulation, filtration and disinfections is proposed. The clear water from the settling tank shall be fed to the filter feed tank, from where it will be pumped to the filters.

Capacity	5.20 cu.m /hr
Size	As per drawing

#### FILTER FEED PUMP:

The settled water from the settling tank is expected to meet the standards with respect to BOD and TSS for Discharge to inland surface waters. However, it is proposed to improve the quality of treated water further in order to make it fit re – use. For this reason, further treatment in the form of coagulation, filtration, softening and disinfection is proposed. The clear water from the settling tank shall be fed to the filter feed pump, from where it will be pumped to the filters.

Quantity : 2 nos. (1w + 1s)

Duty : To transfer treated effluent for sand filters

Type : Horizontal centrifugal non-clog Self priming, open impeller, pumps , Kirloskar,

STORK Equivalent (approved by consultant)

Motor : TEFC Motor, with IP-55 protection and suitable for 400 / 440 V, 50 HZ A/c

supply of Kirloakar / grundfos make.

Material : Body and impeller in CI

Accessories : Air cock with priming funnel, Flexible Coupling with

guard, Base frame, foundation bolts etc.,

Flow : as per system requirement – (min – 5.25 cu.m / hr).

Head : 30 - 40 mtr

#### I. PRESSURE SAND FILTER - 1 NO:

Vertical down flow type with graded gravel with polysterene strainers.

Diameter	900 dia
Depth of media	1000 mm
Test Pressure	5 Kg. / Sq.cm
Velocity of filtration	8 cu.m / Sq.m / Hr.
Flow rate	5.20 cu.m / hr

Quantity : 1 no

Make : Ion exchange or equivalent

Material : 6 mm thick MS plates and 8 mm thick end plates whole unit shall be

given 2 Coats for internal and external with epoxy/enamel-based paint

over a coat of epoxy based primer.

Under drain : Perforated bottom plate with plastic strainers or central headers and

laterals.

Media : Graded River sand and Gravel

#### J. ACTIVATED CARBON FILTERS - 1 NO:

Vertical down flow type with graded gravel with polysterene strainers.

Diameter	900 dia.
Depth of media	As per system requirement
Test Pressure	5 Kg. / Sq.cm
Velocity of filtration	8 cu.m / Sq.m / Hr.
Flow rate	5.20cu.m / hr

Quantity: 1 no.

Make : Ion exchange or equivalent

Material : 6 mm thick MS plates and 8 mm thick end plates whole unit shall be

given 2 Coats for internal and external with epoxy / enamel - based

paint over a coat of epoxy based primer.

Under drain : Perforated bottom plate with plastic strainers or central headers and

laterals.

Media : Iodised Activated carbon with Gravel support

K. CHLORINE DOSER:

Quantity : 1 no.

Make : Asia LMI / Ion exchange or approved equivalent type

Flow : As per system requirement

Material : PVC / FRP

Accessories : Foot valve with strainer, Electronic diaphragm type metering Pump

#### L. Ultra violet filteration:

It is proposed to provide UV filtration plant before water is feed to flushing ,landscaping and HVAC cooling tower

#### M. TREATED EFFLUENT COLLECTION SUMP:

One No. Final sump of 70 cu.m capacity will be provided to filtered & Ultra violet water, before pumping to Flushing and Irrigation purpose.

Capacity	70 cu.m / day
Size	As per drawing

#### 1.0. SEWAGE TREATMENT PLANT FEASIBILITY REPORT:

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The sewage treatment plant will be designed to ensure that treated effluent characteristics are well below / within the permissible limits, even under varying flow conditions, which are typical for such systems. This implies that the selected process will be able to withstand the shock load situation.

A brief description of the process involved in treating the sewage is given below:

The sewage treatment plant is designed with a capacity to handle **300 cu.m** (approx.) of soil water from the building.

#### **QUANTITY AND QUALITY OF WASTEWATER:**

The quality of raw effluent is considered as:

The sewage treatment plant is designed taking the following parameters in to account:

#### **QUALITY OF WASTE WATER:**

BOD	300 to 350 Mg / Ltr.
COD	350 to 450 Mg / Ltr.
TSS	350 to 450 Mg / Ltr.
PH	7 to 8
Oil & Grease	100 to 150 mg / Ltr.

#### **QUALITY OF TREATED EFFLUENT:**

BOD	< 10 Mg / Ltr.
COD	< 100 Mg / Ltr.
TSS	< 20 Mg / Ltr.
PH	6.5 to 7.5.
Oil & Grease	< 10 Mg / Ltr.

#### 02. DOMESTIC EFFLUENTS CHARACTERISTICS:

#### **QUANTITY AND QUALITY OF WASTEWATER:**

The wastewater quantity from domestic sources is considered at maximum 300 Cu.m / day. The quality of raw effluent is considered as:

The sewage treatment plant is designed taking the following parameters in to account:

#### **QUALITY OF WASTE WATER:**

BOD5	300 to 350 Mg / Ltr.
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TSS	350 to 450 Mg / Ltr.
PH	7 to 8
Oil & Grease	100 to 150 mg / Ltr.

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- Diffusers
- Secondary Clarifier
- Return Sludge Pump
- Sludge drying beds

#### **TERITARY TREATMENT**

- Clarified water Tank
- Filter Feed Pumps
- Sand Pressure Filter
- Activated Carbon Filter
- Hypodosing system
- Final Sump

#### **DESCRIPTION OF TREATMENT UNITS:**

#### A. BAR SCREEN:

In the incoming channel, a chamber medium screen shall be fitted, the purpose of which is to filter out coarse trashy matter from introducing in to succeeding units of the treatment plant. Screens shall be made of M.S. construction epoxy painted.

Type : Manually cleaned with Handrake

Construction : In MS flats of size 20 x 6, c/c not more than

20mm with necessary MS flat 25 x 6 stiffeners.

The whole unit shall be given 2 coats of epoxy-based paint over a coat of epoxy based primer. 1 no. MS hand rake shall also be provided with GI pipe rod.

Channel size	0.1 mtrs W x 1.6 mtrs L x 0.75 mts D	
Type of screen	M.S. Construction manually cleaned with MS flats placed at 20	
	mm c/c with MS hand rake with handle all epoxy painted.	

#### B. EQUALISATION TANK / COLLECTION TANK:

In order to homogenize the quality of wastewater, as well as to feed equalization tank at a uniform rate to the rest of the treatment plant, a equalization tank is proposed. In order to mix the contents, as well as to provide a degree of preparation, diffused aeration by means of membranes and blowers are proposed.

Capacity	73 cu.m
Aeration	MECHANICAL AGITATION.
Dimensions	As per drawing
D. P.	6 Hrs.

#### C. RAW EFFLUENT PUMP SETS:

The equalized and neutralized waste together with return sludge shall be pumped at a uniform rate of 3.25 cu.m / Hr. into the aeration tank.

Quantity : 2 Nos. (1w + 1s)

Duty : To transfer Raw Effluent from Equalization tank to Aeration

Type : Vertical submersible pump.

Motor : TEFC Motor with IP-55 protection and suitable for 400 / 440 V , 50 HZ

A/c supply of Kirloskar.

Material : CI Body and impeller in Bronze.

Accessories : Air cock with priming funnel, Flexible Coupling with guard, Base frame

foundation bolts etc.,

Flow rate : 12.25 cu.m / hr

Head : 15 mtr

Solids : 35 mm maximum

Temperature : Ambient

PH : 6.0 - 8.0

#### D. DOUBLE STAGE AERATION TANK:

Biological stabilization of the wastewater is accomplished in the aeration tank in the presence of microorganisms, for the respiration of which, Oxygen is supplied by means of diffused aeration comprising membrane diffusers and air blowers. As micronutrients such as nitrogen and phosphorus will be already present in sufficient quantities, no external supplementation will be necessary.

The aeration tank is divided in to two parts. Each Aeration Tank is provided with diffused aeration system to supply the air for the micro-organisms growth. The nutrients required for the micro-organisms growth are organic matter, which is present in the domestic effluent.

The MLSS level is maintained in this process to enhance the aeration process. Optimum concentration of MLSS to be maintained is in the range of  $3500 - 4500 \, \text{mg}$  / lit in the aeration time the sludge starts to settle in this tank. Here the settling of the solids takes place and the clear water from the top pumped to the clear water tank.

Flow Quantity	300 cu.m / day
BOD in	350 mg / L
BOD out desired	10 mg / L
Tank volume / CAP	232 Cu.m (116cum x 2 Nos)
Diffusers	Fine pore diffusers.
F.M.	0.12
MLSS	3600 mg / Lit

#### E. AIR BLOWERS:

Туре	Twin lobe Compressor
Capacity	175 cu.m / hr at 0.50 KJC
Quantity	3 Nos. (2w + 1 s)

The Standard Air Requirement (SAR) is arrived at on the basis of 2 kg oxygen / Kg of BOD.

Quantity : 3 nos. (2w + 1s)

Type : Twin lobe compressor

Flow : As per system requirement

Make : Kay / CVT/ Equivalent (approved make)

#### F. SECONDARY SETTLING TANK:

The mixed liquor (waste water with micro – organism) exiting the aeration tank has to be clarified in a clarifier waster, as well as to thicken the biomass MLSS (mixed liquor suspended solids)

Size	As per drawing	
Recirculation	75 %	
Overflow	12.25cu.m / hr / sq. m	

#### G. SLUDGE HOLDING TANK:

The biomass in the aeration tank stabilizes BOD in wastewater by consuming the organic matter in the wastewater. The metabolic activity results in growth of the biomass population in the aeration tank. Consequently, in order to contain the level of MLSS in the aeration tank to the design level of 3600 mg / L, it will be necessary to bleed off or waste the excess activated sludge. For this purpose a sludge holding tank of 14.00 cu.m with air supply & one no. filter press is proposed.

Capacity	14.00 cu.m / day	
Size	As per drawing	

#### **SLUDGE DISPOSAL PUMPS:**

Quantity : 2 nos. (1w + 1s)

Duty : To transfer secondary sludge from clarifier to

Aeration Tanks & sludge thickener.

Type : Horizontal centrifugal non-clog Self priming, open impeller, pumps,

Kirloskar, STORK Equivalent (approved by consultant)

Motor : TEFC Motor, with IP-55 protection and suitable for 400/440 V, 50 HZ

A/c supply of Kirloakar / grundofos make.

Material of Construction: Body and impeller in CI

Accessories : Air cock with priming funnel, Flexible Coupling with guard, Base

frame, foundation bolts etc.,

Flow : as per system requirement

#### H. FILTER FEED TANK:

The settled water from the settling tank is expected to meet the standards with respect to BOD and TSS for Discharge to island surface waters. However, it is proposed to improve the quality of treated water further in order to make it fit re – use. For this reason, further treatment in the form of coagulation, filtration and disinfections is proposed. The clear water from the settling tank shall be fed to the filter feed tank, from where it will be pumped to the filters.

Capacity	19.50 cu.m /hr	
Size	As per drawing	

#### FILTER FEED PUMP:

The settled water from the settling tank is expected to meet the standards with respect to BOD and TSS for Discharge to inland surface waters. However, it is proposed to improve the quality of treated water further in order to make it fit re – use. For this reason, further treatment in the form of coagulation, filtration, softening and disinfection is proposed. The clear water from the settling tank shall be fed to the filter feed pump, from where it will be pumped to the filters.

Quantity : 2 nos. (1w + 1s)

Duty : To transfer treated effluent for sand filters

Type : Horizontal centrifugal non-clog Self priming, open impeller, pumps , Kirloskar,

STORK Equivalent (approved by consultant)

Motor : TEFC Motor, with IP-55 protection and suitable for 400 / 440 V, 50 HZ A/c

supply of Kirloakar / grundfos make.

Material : Body and impeller in CI

Accessories : Air cock with priming funnel, Flexible Coupling with

guard, Base frame, foundation bolts etc.,

Flow: as per system requirement – (min – 19.50 cu.m / hr).

Head : 30 - 40 mtr

#### I. PRESSURE SAND FILTER - 1 NO:

Vertical down flow type with graded gravel with polysterene strainers.

Diameter	1800 dia
Depth of media	1000 mm
Test Pressure	5 Kg. / Sq.cm
Velocity of filtration	8 cu.m / Sq.m / Hr.
Flow rate	19.50 cu.m / hr

Quantity : 1 no

Make : Ion exchange or equivalent

Material : 6 mm thick MS plates and 8 mm thick end plates whole unit shall be

given 2 Coats for internal and external with epoxy/enamel-based paint

over a coat of epoxy based primer.

Under drain : Perforated bottom plate with plastic strainers or central headers and

laterals.

Media : Graded River sand and Gravel

#### J. ACTIVATED CARBON FILTERS - 1 NO:

Vertical down flow type with graded gravel with polysterene strainers.

Diameter	1800 dia.
Depth of media	As per system requirement
Test Pressure	5 Kg. / Sq.cm
Velocity of filtration	8 cu.m / Sq.m / Hr.
Flow rate	19.50cu.m / hr

Quantity: 1 no.

Make : Ion exchange or equivalent

Material : 6 mm thick MS plates and 8 mm thick end plates whole unit shall be

given 2 Coats for internal and external with epoxy / enamel - based

paint over a coat of epoxy based primer.

Under drain : Perforated bottom plate with plastic strainers or central headers and

laterals.

Media : Iodised Activated carbon with Gravel support

K. CHLORINE DOSER:

Quantity : 1 no.

Make : Asia LMI / Ion exchange or approved equivalent type

Flow : As per system requirement

Material : PVC / FRP

Accessories : Foot valve with strainer, Electronic diaphragm type metering Pump

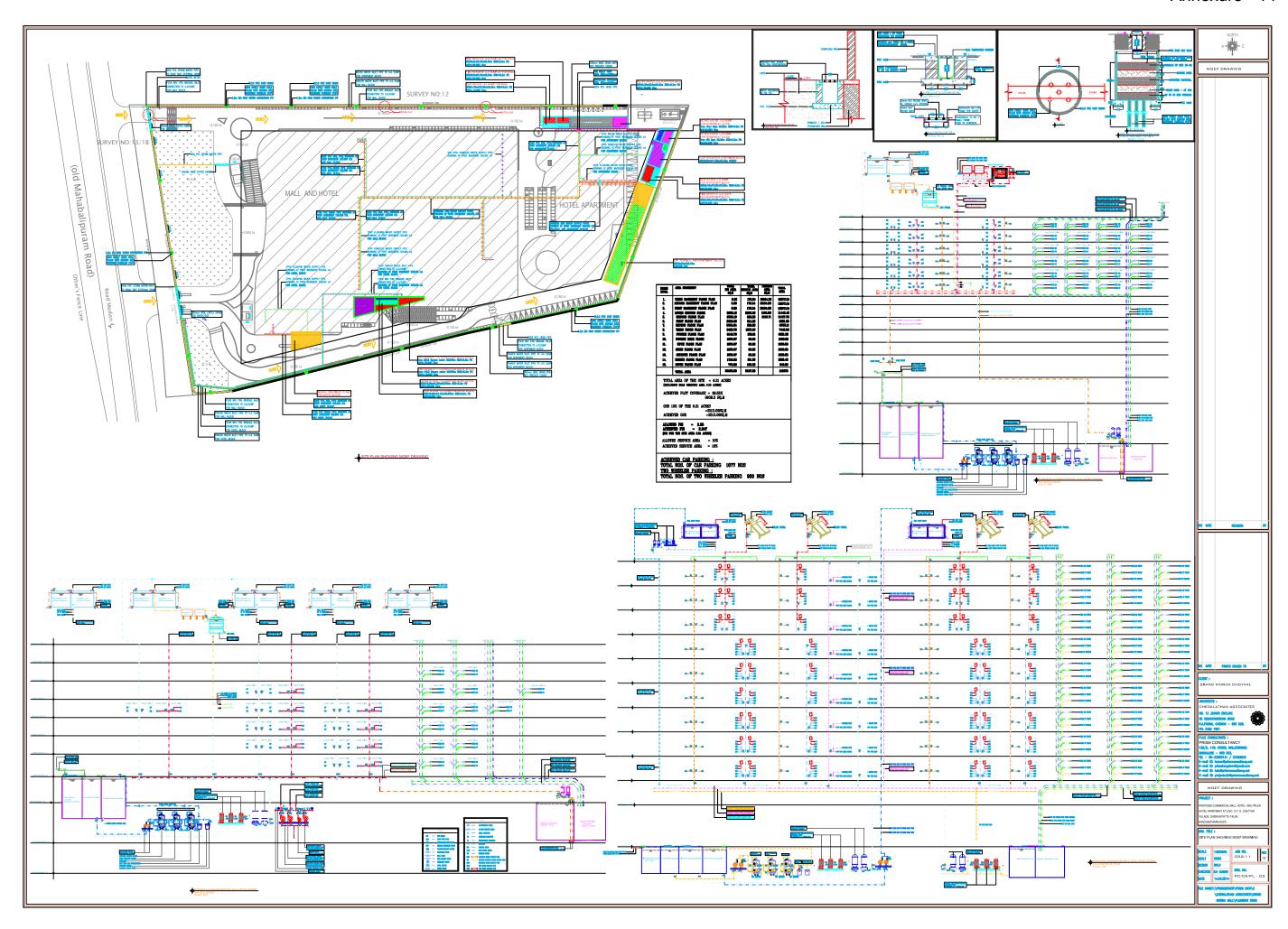
#### L. Ultra violet filteration:

It is proposed to provide UV filtration plant before water is feed to flushing ,landscaping and HVAC cooling tower

#### M. TREATED EFFLUENT COLLECTION SUMP:

One No. Final sump of 260 cu.m capacity will be provided to filtered & Ultra violet water, before pumping to Flushing and Irrigation purpose.

Capacity	260 cu.m / day
Size	As per drawing



## nuber ( Enviro Care Systems (r) Ltd.

# 18, 92<sup>nd</sup> Street, Ashok Nagar, Chennai - 600 083.

Ph: 42985555 Fax: 42985500 E-mail: labsales@hecs.in

#### **Laboratory Services Division**

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#### TEST REPORT

Page: 1 of 1

Name of the Client

: M/s Allied majestic Promoters.,

Report No. : HECS/A/006/180314

Addrerss of the Client

; OMR Mall Developers(P) Ltd,13/1A,MAA Garden,

Report Date: 26/03/2014

Egattur Village, Tiruporur Taluk, Kancheepuram-603106

Sample Description

: Ambient Air Quality

Sampling Location

: Inside The Side

Sample Drawn By

: Hubert Enviro Care Systems Pvt Ltd

Sampling/received Date

: 18/03/2014 -18/03/2014

Analysis Commenced On: 18/03/2014

Completed On: 25/03/2014

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Stan	dards : 2009
1	Sulphur Dioxide	μg/m³	11	IS: 5182 (P-2):2001(Reaff:2006)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	μg/m³	21	IS: 5182 (P-6):2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	μg/m³	62	IS: 5182 (P-23):2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	$\mu g/m^3$	30	HECS/AIR/Ambient/SOP011	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BDL(DL 0.005)	1S: 5182 (P-10) 1999(Reaff:2003)	4 (1 hours)	2 (8 hours)
	Lead	μg/m³	BDL(DL 0.05)	IS: 5182 (P-22): 2004(Reaff:2009)	1 (24 hours)	0.5 (Annual)
7	Ozone	μg/m³	BDL(DL 10)	HECS/AIR/Ambient/SOP013	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	BDL(DL 5)	HECS/AIR/Ambient/SOP012	400 (24 hours)	100 (Annual)
9	Benzene	μg/m³	BDL(DL 1)	IS: 5182 (P-11):2006(RA:2009)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BDL(DL 1)	IS: 5182 (P-12): 2004(RA:2009)	l (Annual)	i (Annual)
11	Arsenic	ng/m³	BDL(DL 1)	HECS/AIR/Ambient/SOP014	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BDL(DL 5)	HECS/AIR/Ambient/SOP007	20 (Annual)	

Note:-BDL - Below Detection Limit, D.L- Detection Limit, µg/m3- Micrograms per cubic meter, mg/m3- Milligrams per cubic meter, ng/m3- Nanograms per cubic meter.

\*\*\*End of Report\*\*\*

Authorized Signatory

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Chennai - 600 083.

Ph: 42985555 Fax: 42985500 E-mail: labsales@hecs.in

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#### TEST REPORT

Page 1 of 1

Name of the Client

: M/s. Allied Majestic Promoters

Report No HECS/N/001-002/180314

Report Date: 26/03/14

Address of the Client

OMR Mall Developers (p) Ltd, : 13/1A,MAA Garden, Egattur Village,

Tiruporur Taluk, Kancheepuram -603106

Sample Description

: Noise Monitoring

Test Carried Out By

: Hubert Enviro Care Systems Private Limited

Sampling/Received Date

: 18/03/14 - 18/03/14

S.No	Location	Noise Level in dB(A)
1	Inside The Site	56.13
2	Site Entrance	63.53

## Exposure limits set by CPCB:

Night Time-70 dB(A). Day Time-75 dB(A); Industrial Area i. Day Time-65 dB(A); Night Time-55 dB(A). ii. Commercial Area Night Time-45 dB(A). Day Time-55 dB(A); Residential Area iii. Night Time-40 dB(A). Day Time-50 dB(A); Silence Zone iv.

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Chennai - 600 083.

Ph: 42985555 Fax: 42985500 E-mail: labsales@hecs.in

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### **TEST REPORT**

Page: 1 of 1

Name of the Client

: M/s Allied majestic Promoters.,

Report No. : HECS/W/037/180314

Addrerss of the Client

: OMR Mall Developers(P) Ltd,13/1A,MAA Garden,

Report Date: 26/03/2014

Egattur Village, Tiruporur Taluk, Kancheepuram-603106

Sample Description

: WATER

Sample Mark

: Inside The Site

Sample Drawn By

: Hubert Enviro Care Systems Pvt Ltd

Sampling/received Date : 18/03/2014

03/2014 -18/03/2014

Analysis Commenced On: 18/03/2014

Completed On: 25/03/2014

S.No.	Parameters	Units	Results	Test Method
ì	pH (at 25 °C)	-	6.85	IS 3025 (Part11)-1983(Reaff:2006)
2	Electrical conductivity	μS/cm	1217.0	1S 3025 (Part14) 1983(Reaff:2006)
3	Colour	Hazen Unit	BDL(DLi)	IS 3025(Part 4):1983(Reaff:2006)
4	Turbidity	NTU	BDL(DL0.1)	IS:3025:(Pt-10):1984(Reaff;2006)
5	Total Hardness as CaCO3	mg/l	300.0	1S 3025 (Pan21)-1983(Reaff 2006)
6	Calcium as Ca	mg/l	76.15	IS 3025 (Pt40)-1991(Reaff 2009)
7	Silica as SiO2	mg/l	93.64	IS 3025;4 (Part35) 1988(Reaff:2003)
8	Total Alkalinity as CaCO3	mg/l	160.0	IS 3025,1 (Pt 23)-1986(Reaff 2009)
9	Chloride as Cl	mg/j	216.49	IS 3025 (Pt 32):1988(Reaff 2009)
10	Magnesium as Mg	mg/l	26.74	IS 3025 (Pt 46)-1994(Reaff 2009)
11	Total Dissolved Solids	mg/l	725.0	IS 3025:1(Pt 16)-1984(Reaff 2006)
12	Sulphate as SO4	mg/l	44.34	IS 3025(Pt 24):1986(Reaff:2009)
13	Fluoride	mg/l	BDL(DL 0.2)	IS 3025 part(60):2008
14	Iron as Fe	mg/l	BDL(DL0.02)	IS 3025 (Pt 53)-2003(Reaff 2009)
15	Arsenic as As	mg/l	BDL(DL 0.005)	IS 3025:(Part-37):1988(Reaff 2009)
16	Total suspended solid	mg/l	BDL(DL1)	IS 3025 (Part17)-1984

Note:-BDL - Below Detection Limit, D.L- Detection Limit, NTU-Nephelometric Turbidity Unit, mg/l - Milligrams per liter.
\*\*\*End of Report\*\*\*



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#### TEST REPORT

Page: 1 of 1

Name of the Client

: M/s Allied majestic Promoters.,

Report No. : HECS/SD/005/180314

Addrerss of the Client

: OMR Mall Developers(P) Ltd,13/1A,MAA Garden,

Egattur Village, Tiruporur Taluk, Kancheepuram-603106

Report Date: 26/03/2014

Sample Description

: SOIL

Sample Mark

: Inside The Site

Sample Drawn By

: Hubert Enviro Care Systems Pvt Ltd

Sampling/received Date : 18/03/2014

18/03/2014 -18/03/2014

Analysis Commenced On: 18/03/2014

Completed On: 25/03/2014

S.No.	Parameters	Units	Results	Test Method
1	pH (at 25°C) @ 10% Solution	-	7.67	IS: 2720 (P-26,1987)
2	Electrical Conductivity	μS/cm	43.0	IS:14767,2000
3	Water holding capacity	%	23.04	HECS/SO/SOP/024
4	Chloride	mg/kg	24.74	SW 846 9253& 9077
5	Calcium as Ca	mg/kg	48.10	EPA 3050 B/EPA 7140
6	Sodium	mg/kg	10.0	EPA 3050 B/EPA 7770
7	Available Potassium	mg/kg	4.0	EPA 3050 B/EPA 7770
	Organic Matter	%	0.14	IS:2720 (P-22, 1972)
9	Magnesium as Mg	mg/kg	12.0	EPA 3050 B/EPA 7450
10	Sulphate	mg/kg	BDL(DL1)	IS 14685:14685:1999
11	Iron	mg/kg	7381.18	USEPA Method 3050B&EPA 2008
12	Oil & Grease	mg/kg	BDL(DL1)	USEPA Method 9071B
13	Alkalinity	mg/kg	250.0	USEPA Method 310.2
14	Sodium Absorption ratio	meq/kg	0.4707	IS 1077:1984
15	Nitrate	mg/kg	BDL(DL1)	IS 14684:1999
16	Total Chromium	mg/kg	BDL(DL0.01)	USEPA Method 3050B,AAS Method.
17	Total Phosphorus	mg/kg	90.23	IS 10518-1982 Reaffirmed 2003
18	Nitrogen	mg/kg	347.20	IS 14684:1999 RA 2008

Note:-BDL - Below Detection Limit, DL- Detection Limit, mg/Kg- Milligrams per kilogram, % - Percentage.
\*\*\*End of Report\*\*\*

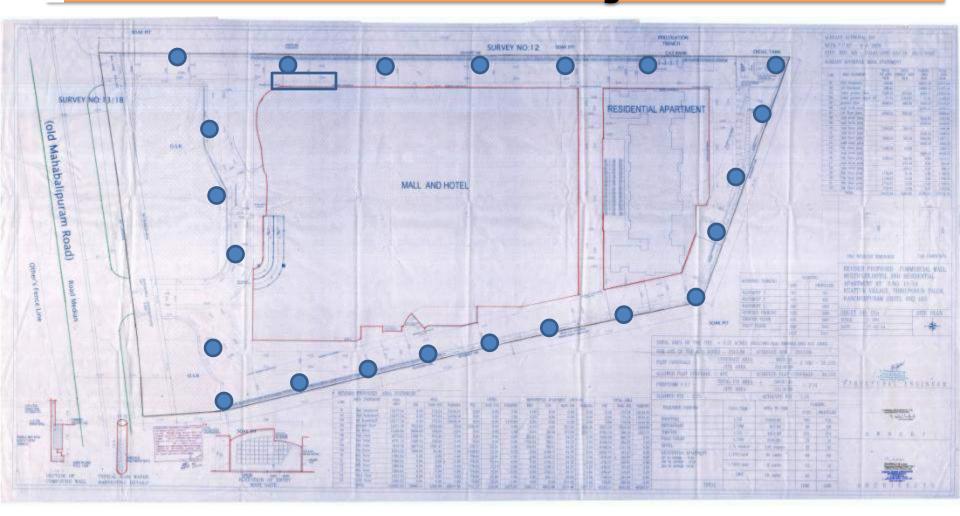


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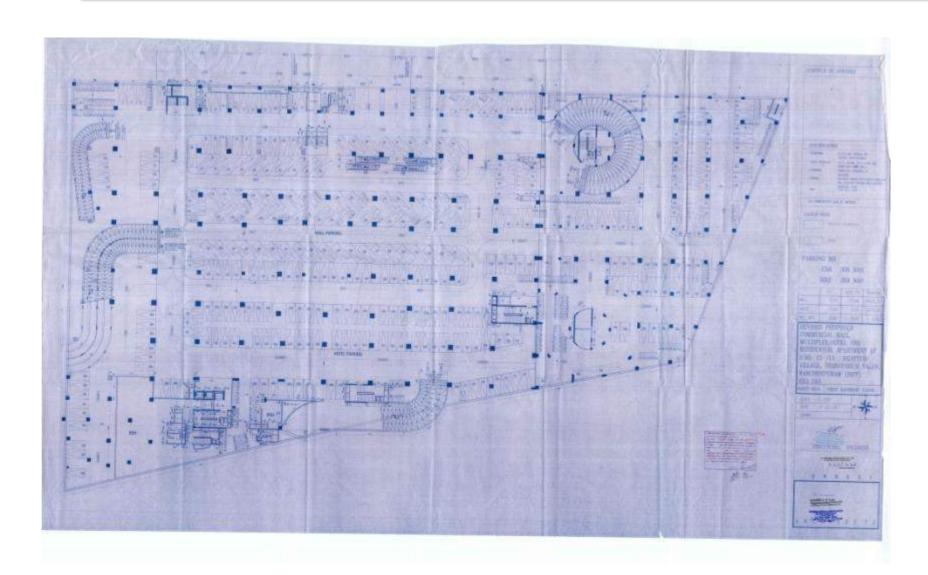
# d) Details of rain water harvesting system Strom Water Drainage Plan Annexure - 16



- Rain water Harvesting Pits
- Rainwater harvesting sump 160 KL

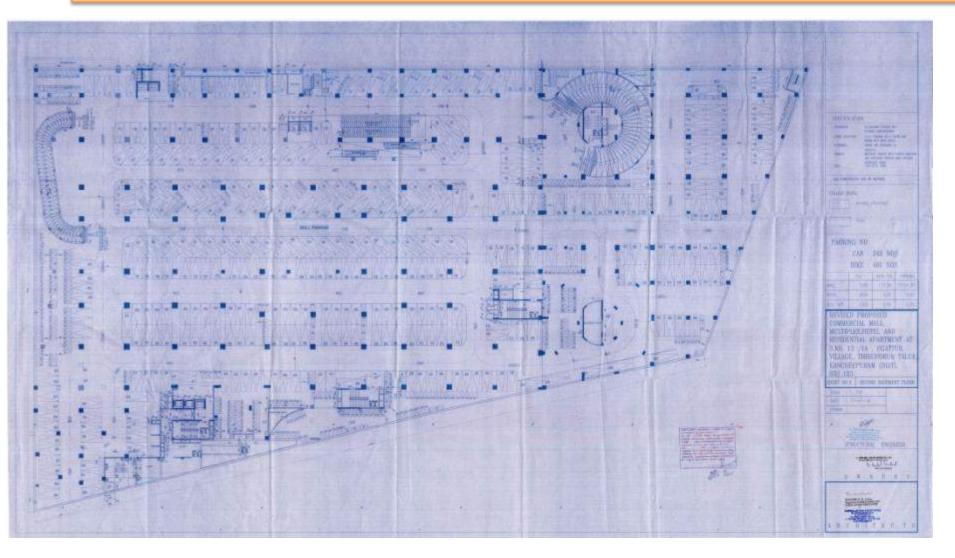


### **BASEMENT-I PARKING LAYOUT PLAN**



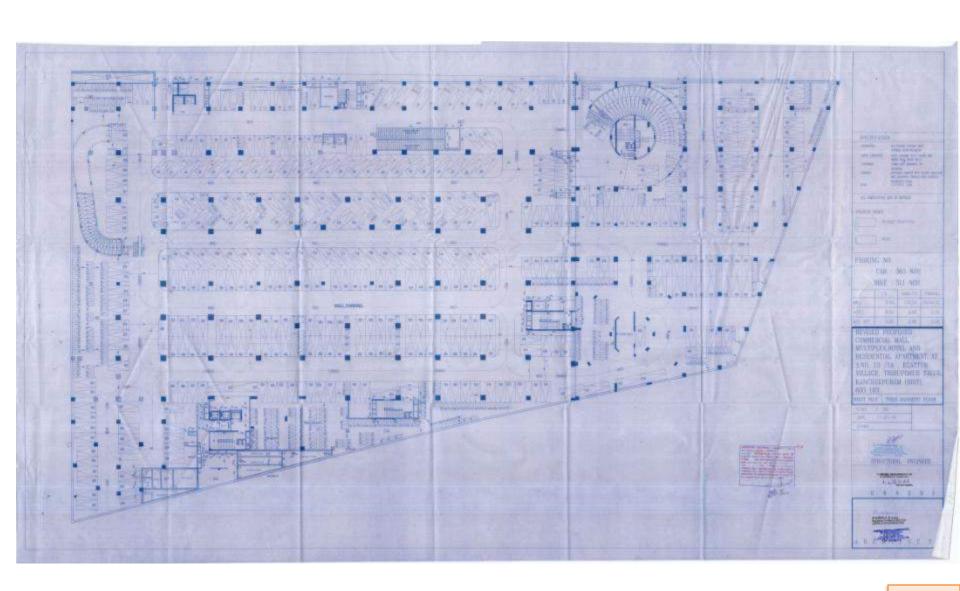


### **BASEMENT-II PARKING LAYOUT PLAN**





### **BASEMENT-III PARKING LAYOUT PLAN**





S.No	Norms	Details	Compliance
1	Building		Atrium:
	envelopes		35 % glass panels (8mm thk.
			clear glass + 1.52 PVB +
			8mm thk. Clear glass) and
			65% PUF panels (50mm thk.)
		1. Insulation materials	1. R value : PUF panel 4.0
		and their R-values;	
		2. Fenestration U-factors,	2. U value
			I. PUF panel .026 w/sqm k
			II. Glass Panel 4.1w/sqm.k
		3. Solar heat gain	3. Solar factor :Glass panel 0
		coefficients (SHGC),	.69



S.No	Norms	Details	Compliance
1	Building envelopes	4. visible light transmittance (if the	4. Visible light transmittance : Glass panel:
		trade-off procedure is used), and	84%
		air leakage;	Façade glass:
			A. Spider glazing: 6mm+1.52pvb+6mm
			clear glass
			B. Fixed glazing (A) :6mm + 12mm air
			gap+ 6mm thk clear glass
			C. Fixed glazing (B) 12mm thk. Clear glass
			1. U Value
			i. Spider glazing 5.56
			ii. Fixed glazing (A) 3.122
			iii. Fixed glazing (B) 5.5
			1. Solar factor
			i. Spider glazing 0.64
			ii. Fixed glazing (A) 0.76
			iii. Fixed glazing (B) 0.74
			1. Visible light transmittance
			i. Spider glazing 85%
			ii. Fixed glazing (A) 78%
			iii. Fixed glazing (B) 85%



S.No	Norms	Details	Compliance	
2	Mechanical systems and	1. system and equipment types,	1. Centralized chilled Water System. 100%	
	equipment, including	sizes,	Water cooled Chillers are used . 500TR	
	heating, ventilating, and		Water Cooled Chiller - 5 Nos.	
	air conditioning		950GPM Primary Pump - 6Nos.	
			2000GPM Condenser Water Pump - 6Nos.	
			500TR Cooling Tower - 5 Nos	
			Chiller COP – 6	
			Refrigerant – R – 134A	
		2. efficiencies, and controls;	2. All Equipments are selected more than or	
			Equal to 80% Efficiency.	
			And Automatic Controls are used to Control	
			the Chiller operations.	
		3. economizers;	3. Economizers are not used in the system.	
		4. variable speed drives;	4. VFDs are Used in Chiller, Primary Pumps,	
			Condenser Water pumps and Cooling	
			Towers	



S.No	Norms	Details	Compliance	
2	Mechanical systems and	5. piping insulation;	5. Pipe is having insulation with sand	
	equipment, including		cement plaster with 2 coats of enamel	
	heating, ventilating, and		paint to avoid earlier corrosion. R Value for	
	air conditioning		50mm thick Pipe Insulation will be 1.61 . &	
			R Value for Duct Thermal Insulation for	
		6. duct sealing,	9mm thick will be 0.28.	
			6. Duct work ceiling considered 1 inch	
			water gauge	
		7. insulation and location;	7. Chilled water pipe insulation using EPS	
			TF quality of thickness 50mm for pipe	
			below 350mm dia &75 mm dia for pipes	
			above 350mm dia with sand cement	
			plaster with 2 coats of enamel paint.	
			Location will be at Chiller plant room ,	
			Riser shaft and Floor level above false	
			ceiling & Thermal Insulation (Ducting)	
			using 9 mm Thk Armaflex insulation	
			material, joints sealed with adhesive tape.	
			Location at above false ceiling	



S.No	Norms	Details	Compliance	
3	Service hot water	solar water heating system	Hotel	
	heating		It is proposed to provide centralized solar	
			hot water system of 10000 liters tank	
			capacity with 60 panels of 125 liters per	
			hour (Considering 2500 liters heating coil	
			provision during non sunny days. Power	
			consumption is 20KW per day ) Since, we	
			have solar system for 7500 liters / hour,	
			power saving will be 60KW per day	
			Apartment	
			Top 3 floors are provisioned for centralized	
			solar hot water system of 3500 liters tank	
			capacity with 28 panels of 125 liters per	
			hour for 36 flats	
			24 toilets x 3 floors x 2 = 144 KW savings	
			per day	



S.No	Norms		Details		Compliance
4	Interior and exterior lighting	1.	automatic lighting shutoff,	1.	Automatic lighting shutoff shall be provided in corridors / toilets.
		<ol> <li>3.</li> </ol>	occupancy sensors, and other lighting controls; lamp efficacy for exterior lamps;	<ol> <li>3.</li> </ol>	Occupancy sensors shall be provided in corridors / toilets. 100lumens/ watts
5	Electrical power and motors	1.	electric schedule showing transformer losses, motor efficiencies,	1.	2000 Kva Dry type 33Kv Transformer, losses 21.4 Kw 80%
		3.	power factor correction devices;	3.	Automatic Power Factor Correction panel shall be provided to maintain the power factor to 0.99.
		4.	electric check metering and monitoring system	4.	Provided for all the feeders



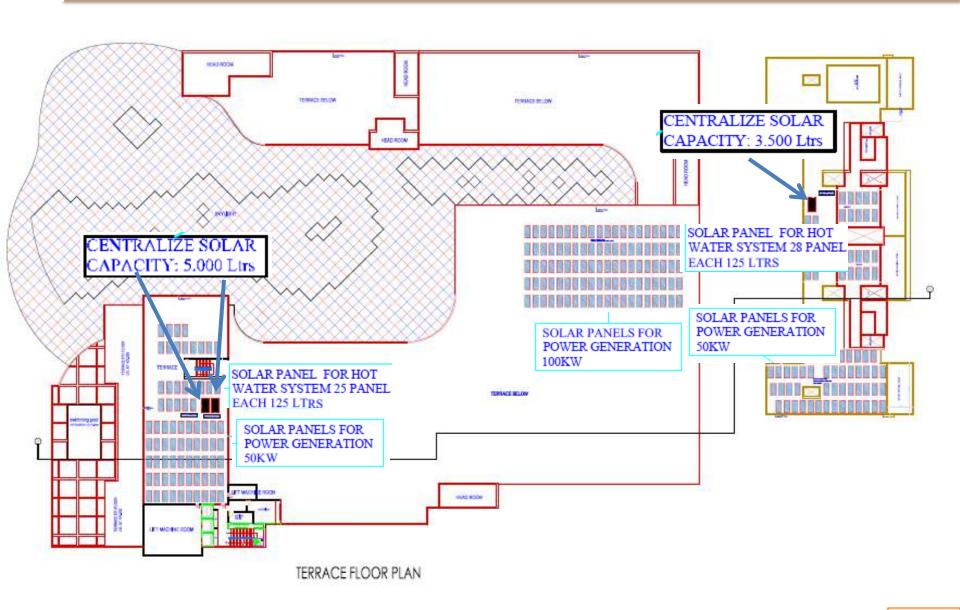
## c) Solar power to be included

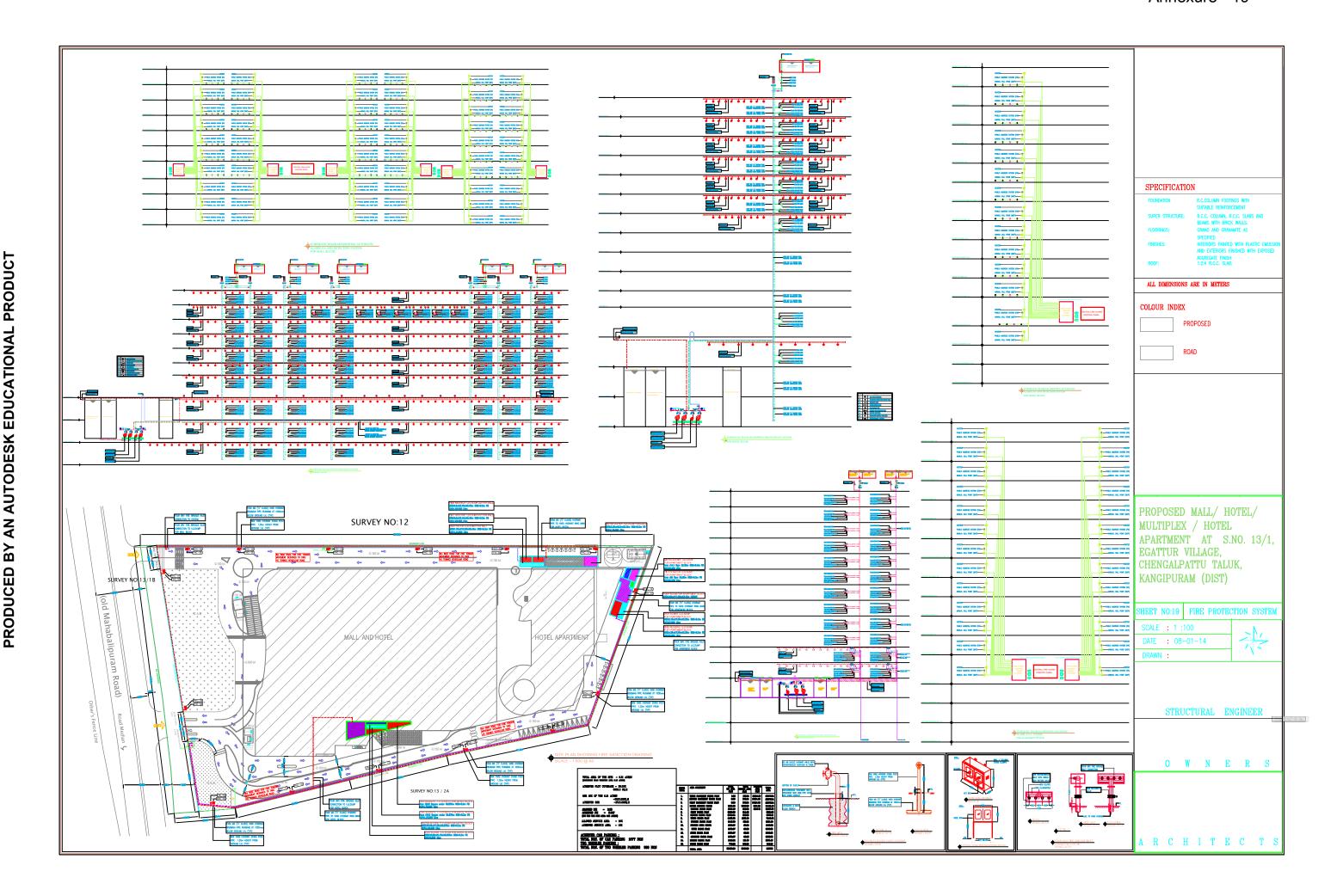
### **Details of solar power with Savings**

I	Solar Power for Lighting for Mall		
	Total Lighting Load in KW	100	KW
	Consumption for a period of 14 Hrs / Day (A)	1400	KWHR
	Cost of saving / Day@ Rs 7/- per Unit	Rs.9,800.00	
	Cost of Saving / Year	Rs.3,528,000.00	
II	Solar Power for Lighting for Hotel		
	Total Lighting Load in KW	50	KW
	Consumption for a period of 14 Hrs / Day (A)	700	KWHR
	Cost of saving / Day@ Rs 7/- per Unit	Rs.4,900.00	
	Cost of Saving / Year	Rs.1,764,000.00	
III	Solar Power for Lighting - Apartment		
	Total Lighting Load in KW	50	KW
	Consumption for a period of 14 Hrs / Day (A)	700	KWHR
	Cost of saving / Day@ Rs 7/- per Unit	Rs.4,900.00	
	Cost of Saving / Year	Rs.1,764,000.00	



### c) Solar power to be included





### Tamil Nadu Fire & Rescue service Department

From

S.VIJAYA SEKAR, MSc., M.L., D.I.S., A. Dip. (NFSC) Deputy Director – North West Region Tamil Nadu Fire & Rescue Services Chairman of Inspection Team for MSB, Vellore. To

THE DIRECTOR, Tamil Nadu Fire & Rescue Services Egmore, Chennai – 600008.

#### Rc. No. 2941 /A2/2007 Dated. 6.06.2007

Sir,

Sub: Tamil Nadu Fire & Rescue Services - North West Region - Multistoried
Building Inspection Team Inspected Assembly Building, M/s. Allied Majestics
Promoters S.No. 13/1, Egattur Village, Chengalpattu Taluk, Kanchipuram DistrictReport - Regarding

Ref: 1. Directorate Endt. R. C. No.9127 /C1/2007 dated 21.05.2007

 Inspection report of Divisional Officer & Asst. Divisional Officer (Fire Prevention wing) Kancheepuram Division Dt. 05.06.2007.

With reference to the letter cited above the team has inspected Assembly Building. M/s. Allied Majestics Promoters S.No. 13/14 Egattur Village, Chengalpattu Taluk, Kanchipuram District. On 05-06-2007 and the report is given as here under.

#### **OBSERVATION:**

The Proposal is for construction of Assembly building of Second basement + First basement + Lower Ground floor + Ground floor + 9 floors with the maximum height of 45.25mts. The total plot area of the Assembly Building is 6.25 acres. The total proposed floor area will be 64995.91 sq.mts. It hasenough setbacks, North- 12 mts. South- 12mts. East- 12.5mts, West- 25.8mts. The proposed building is classified as Group- D, AssemblyBuilding sub division VI as per national building code of India - 2005, Group I, Part-IV, Fire and Life safety SP-7 (Group - 1) 2005, Second Revision.

#### The team suggests following fire precautionary measures in the building:

- 1. There should be one Wet-riser along with landing valve per thousand Sq.m area. The raiser with landing valves should be fully charged with adequate pressure at all times & should have both automatic and manual operation provisions. To feed the Wet-riser, an underground static water tank of minimum capacity 2,00,000 liters and a terrace level tank of capacity 20000 liters should be provided with refilling facilities. To charge the wet-raiser system and the sprinkler system two electrical pump of each capacity 2850 LPM should be provided near the under ground water tank. An equal capacity of Diesel pump should also be provided as an alternative arrangement. One more electrical pump of capacity of 180 LPM should be provided as a Jacky Pump for each system. The wet-riser should also cover the basements.
- 2. Fire services inlets fitted with NRV at ground level should be provided both for risers and static
- 3. Hose reel assembly should be provided covering each floor area.
- 4. Yard hydrants should be provided around the buildings.
- 5. Manual fire alarm call point should be provided all floor areas.
- 6. Automatic Sprinkler system should be provided at all floor area including basements area.
- 7. Automatic detector and fire alarm system should be provided at all floors.
- 8. Public address system should be provided connecting all the floors.
- 9. Alternate & Independent power system should be provided to pumps and emergency lighting systems, fire escapes, smoke vent system and fire lifts.
- 10. No of Exits locations and exit width and exits markings should conform to the requirements of National Building Code of India part 4 as stated above.
- 11. The first aid fire fighting equipment should be provided at all floors in accordance with the BIS 2190:1992 requirements.
- 12. Fire lift, Electrical Installation and wiring, AC Duct & other service ducts should meet the requirement of NBC of India as stated above.
- 13. The width and height of any arch or gate, if any, should have the clearance of not less than 4.5 m and 5 m respectively.
- 14. Automatic smoke and fume Exhaust system should be provided at basements and other needed floor areas.
- 15. The service ducts such as power cables, communication cables, A/C ducts, etc. should be protected with proper fire sealing or fire dampers.
- 16. The Cable gallery should be routed through the resistant duct or fire protected tray.
- 17. Necessary Electrical safety measure such as MCB, ELCB, Lightening Arrester etc. should be provided.
- 18. Fire Resistant and Low Smoke Emission Cable should be used.
- 19. One refuge area (minimum of 15 sq.mtr) on the floor immediately above 24 m and another 15 mts. respectively should be provided.
- 20. A fire tower should be provided as means of egress as per NBC (4.13)
- 21. Open space (side set-back) floor around the proposed building should be designed to with stand the minimum load of 45 tons at any point of operation for using Hydraulic plat formed special vehicles.

- 22. All escape stair cases should be protected with pressurization system in addition with automatic self closing fire check doors of 2 hrs rating.
- 23. The given side set-back should be kept free from any car parking or any other construction so as to ensure free movement of special rescue vehicles in case of an emergency operation.
- 24. One trained fire officer and a crew must be available to maintain as well as to operate the fire protection system in case of any emergency need.
- 25. Buildings total fire safety system including automatic activation system should come under single building integrated management system.
- 26. During construction the following safety measure should be provided:
  - Dry raiser of minimum 100mm diameter pipe with hydrant outlets on the floors constructed with a fire service inlet to booster the water in the dry riser.
  - Drums filled with water of 2000 liters capacity with two fire buckets on each floor.
  - A water storage tank of minimum 20000 liters capacity, which may be used for the construction purpose also.

There is no objection to accord planning permission to this proposal subject to the fulfillment above conditions. The applicant may be informed to comply with all the safety arrangements suggested above and on receipt of compliance report from the applicant before the actual occupancy or before issuing occupancy certificate, whichever earlier, re-inspection will be conducted for the consideration of issue of Fire License.

Deputy Director, North West Region Fire & Rescue Services, Chairman of Inspection Team for MSI

Chairman of Inspection Team for MSB,

Vellore.

is le

#### **ENVIRONMENTAL MANAGEMENT PLAN**

#### 1. STRUCTURE OF EMP

Environmental Management Plan (EMP) is the key to ensure a safe and clean environment. The desired results from the environmental mitigation measures proposed in the project may not be obtained without a management plan to assure its proper implementation & function. The EMP envisages the plans for the proper implementation of mitigation measures to reduce the adverse impacts arising out of the project activities. EMP has been prepared addressing the issues like:

- Pollution control/mitigation measures for abatement of the undesirable impacts caused during the construction and operation stage
- Institutional set up identified/recommended for implementation of the EMP
- Post project environmental monitoring programme to be undertaken
- Expenditures for environmental protection measures and budget for EMP

#### 2. PROPOSED ENVIRONMENTAL IMPACT MITIGATION MEASURES

The major impacts due to different project activities and their mitigation measures have been identified and given in the following table. These measures together constitute part of Environmental Management Plan (EMP). The environmental impact mitigation measures for construction and operation phases are also given in Table 1.

**Table 1 Proposed Environmental Impact Mitigation Measures** 

Area	Mitigation measures				
	Construction Stage:				
Water quality	Toilet and drinking water facilities for construction workers will be provided by the contractor at the construction site to avoid				
A . 1	unhygienic condition at site.				
Air quality	<ul> <li>Dust suppression measures will be undertaken such as regular sprinkling of water around vulnerable areas of the construction site by suitable methods to control fugitive dust during earthwork</li> </ul>				

	<ul> <li>and construction material handling / over hauling.</li> <li>Properly tuned construction machinery &amp; vehicles in good working condition with low noise &amp; emission will be used and engines will be turned off when not in use.</li> </ul>
Noise level	Protective wears such as ear mufflers etc. will be provided to construction personnel exposed to high noise levels.
Solid wastes	Waste construction materials will be recycled and excess construction debris will be disposed at designated places in tune with the local norms.
Landscape	<ul> <li>Appropriate landscape including plantation of evergreen and ornamental flowering trees, palms, shrubs and ground covers at open spaces within the complex will be done, which would serve the dual purpose of controlling fugitive dust and improving the aesthetics of the area.</li> </ul>
Safety	Adequate safety measures complying with the occupational safety manuals will be adopted to prevent accidents/hazards to the construction workers.
	Operation Stage:
Water	Sewage will be treated up to the tertiary level in the proposed STP.
quality	Treated sewage will be reused for toilet flushing, HVAC and green belt.
	<ul> <li>Regular monitoring of STP effluent quality will be carried out as per norms.</li> </ul>
Air quality	<ul> <li>Back up DG sets will comply the applicable emission norms.</li> <li>Adequate stack height for DG sets will be provided as per norms.</li> <li>Back up DG sets will be used only during power failure.</li> <li>Regular monitoring of emissions from DG sets and ambient air quality will be carried out as per norms.</li> </ul>
Noise level	<ul> <li>DG room will be treated acoustically as per norms to control the noise from DG sets.</li> <li>Pumps, STP, Compressors, DG sets etc. will be properly</li> </ul>

Solid wastes	<ul> <li>maintained for fuel efficiency and noise control.</li> <li>Personal protective equipment will be provided to the maintenance staff working in high noise areas.</li> <li>Solid wastes will be segregated into organic and inorganic components.</li> <li>The recyclable inorganic wastes will be sold to prospective buyers.</li> </ul>		
	<ul> <li>Dewatered/ dried sludge from STP will be used as manure in horticulture.</li> </ul>		
Hazardous waste	Used/spent oil from DG sets will be sold to registered recyclers.		
Storm water management			
Fire protection	<ul> <li>Adequate fire protection facilities will be installed including fire detectors, fire alarm and fire fighting system as per National Building Code of India.</li> </ul>		
Landscape	Proper maintenance of landscape round the year including replacement of the decayed plants.		
Safety	<ul> <li>Adequate safety measures complying the occupational safety manuals to prevent accidents/hazards with the maintenance workers.</li> </ul>		
Others	<ul> <li>The building will be provided with disabled-friendly design, timber-free construction, energy efficient lighting &amp; ventilation, and control of indoor environment.</li> <li>Undertaking all necessary pollution control measures to maintain the emissions and discharges within the prescribed/stipulated limits.</li> </ul>		

### 3. PREVENTIVE MEASURES TO AVOID LEACHING OF TREATED SEWAGE EFFLUENT INTO NEARBY WATER COURSES/LAKES ETC.

- a) The treated sewage will meet the standards post UV disinfection and will be used for gardening/ horticultural needs. We will ensure adequate sand to clay mixture in soil to ensure retention of water and facilitate evaporation.
- b) We will be using controlled irrigation and sprinkling method to ensure more evaporation and ensure that about half to one litre of water / Sqft of soil will be used, so that the treated water will not penetrate more than 2 to 3 feet of percolation to the maximum.
- c) The solar evaporation rate of about 1cum/ day will be utilized to enhance evaporation and also assimilation of water for horticultural species and prevent percolation to soil. Items b and c would eliminate leachate percolation to water totally.
- d) Suitable sampling bore wells will be selected to ensure that there is no ground water or soil contamination, in six monthly period and the reports will be submitted to statutory bodies as required.
- e) Also nearby water bodies will be monitored on six monthly basis to confirm the same for water quality.

### 4. ENVIRONMENTAL IMPACTS ON PROJECT LAND AND ITS SURROUNDING DEVELOPMENTS AND VICE VERSA

Since the proposed project is development of commercial building, there will not be any alteration to the surrounding locations. The proposed site is located near residential and commercial units. Also the construction will abide by the Bylaws of CMDA

During the construction phase, following measures will be taken

- Dust suppression by water sprinkling
- Protective wears such as ear mufflers etc. will be provided to construction personnel exposed to high noise levels.
- Waste construction materials will be recycled and excess construction debris will be disposed at designated places in tune with the local norms.
- Adequate safety measures complying with the occupational safety manuals will be adopted to prevent accidents/hazards to the construction workers.

During the operation phase, following measures will be taken

- Sewage will be treated up to the tertiary level in the proposed STP.
- Treated sewage will be reused for green belt and toilet flushing.
- Regular monitoring of STP effluent quality will be carried out as per norms.
- Back up DG sets will comply the applicable emission norms and stack height as specified by PCB
- Solid wastes will be segregated into organic and inorganic components. Organic waste will be treated in composter.
- Adequate rainwater harvesting will be provided by means of recharge into the groundwater.
- Adequate fire protection facilities will be installed including fire detectors, fire alarm and fire fighting system as per National Building Code of India.
- Monitoring of environmental parameters will be done periodically

Due to the proposed project, others will be encouraged to put up residential/commercial projects. Hence no significant negative impact is envisaged.

### 5. GROUND WATER POTENTIAL OF THE SITE AND LIKELY IMPACT OF THE PROJECT

- Ground water table is about 4 m below ground level.
- Fresh water of about 311 KLD is to be utilized from Panchayat and 266 KLD treated sewage of 93 KLD is proposed to be used for flushing, 135 KLD for HVAC and 37.5 KLD for gardening.
- Sewage will be reused for gardening after tertiary treatment and there will be monitoring of ground water near site periodically during and after construction.
- Storm water drainage plan, Rainwater harvesting pits are proposed and roof top collection sump is also proposed.
- Thus as seen above, no impacts are envisaged on ground water.

#### 6. ENVIRONMENTAL MANAGEMENT BUDGET ALLOCATION

A capital cost provision of about Rs. 1243 Lakhs has been kept in the project cost towards the environmental protection, control & mitigation measures and implementation of the EMP. The budgetary cost estimate for the EMP is given in **Table 2**.

**Table 2 Environmental Budget** 

S.No.	Description	Capital Cost	Operating cost
		(Rs. In Lakhs)	(Rs. In Lakhs)
1.	Sewage Treatment Plant	40	8
2.	Landscaping & Gardening	10	3
3.	Solid waste Management	5	1
4.	Rainwater harvesting	15	5
5.	Air pollution Control measures	40	2.5
6	Fire fighting Measures	138	5
7	Solar Lighting	10	1
8	HVAC	985	36
	Total Cost	1243	61.5

#### 7. ENVIRONMENTAL MONITORING PLAN

It is imperative that the Project Authority set up regular monitoring stations to assess the quality of the surrounding environment after the commissioning of the project. An environmental monitoring programme is important as it provides useful information and helps to:

- Verify the predictions on environmental impacts presented in this study,
- Assist in detecting the development of any unwanted environmental situation, and thus, provides opportunities for adopting appropriate control measures, and
- Evaluate the performance and effectiveness of mitigation measures proposed in the EMP and suggest improvements in management plan, if required,
- Satisfy the legal and statutory obligations.

The monitoring plan including areas, number and location of monitoring stations, frequency of sampling and parameters to be covered is summarized in **Table 3a & 3b.** Monitoring will be get carried out by recognized laboratories.

**Table 3a Environmental Monitoring Plan – Construction Phase** 

S.No.	Item	Parameters	Frequency	Unit cost (Rs.)	Sampling /Year	Cost/Year (Rs.)
1	Ambient Air Quality	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> & NOx	Monthly	2800	24	67200
2	Noise Level	Equivalent Noise Level	Monthly	500	24	12000
3	Ground Water	Physical, Chemical and Bacteriological	Monthly	1800	24	43200
4	Soil	General Parameters	Monthly	5000	24	120000
Total	2,42,400					

**Table 3b Environmental Monitoring Plan - Post Construction** 

S.No.	Item	Parameters	Frequency	Unit cost (Rs.)	Samples/Year	Cost/Year (Rs.)	
1	Air Quality	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> & NO <sub>x</sub>	Quarterly	2800	8	22,400	
2	Noise Level	Equivalent Noise Level	Quarterly	500	8	4,000	
3	Exhaust from DG sets	SPM, SO <sub>2</sub>	Quarterly	2000	32	64000	
4	Ground Water Analysis	Physical, Chemical and Bacteriological	Quarterly	1800	8	14,400	
5	Waste Water analysis	pH, BOD, COD, TSS, TDS	Monthly	700	24	16800	
6	Soil Quality	General parameters	Quarterly	5000	8	40,000	
7	Compost Quality	Nutirents, moisture, Ash, pathogens, Heavy metals	Monthly	15000	12	1,80,000	
Total							



### भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

संदर्भ सं. / Ref. No. :

To

दिनंक / Dated :

Noc From
Airport Authority
of India

BY SPEED POST

21-08-2007

No:AAVSR/NOC/RHQ

M/s. Allied Majestic Promoters,

Venkatraman Street, T.Nagar, Chennal – 600017...

#### NO OBJECTION CERTIFICATES

CASE No:648/07/07

Please refer to your letter No:

on the subject noted above.

- This office has no objection to the construction of the proposed construction by Allied Majestic Promoters (hereinafter referred to as the applicant(s), at to a height of (in figure) 51.25m (in words) Five One dec. One Two Two meter above ground level so that top of the proposed structure when erected shall not exceed 6.882m (Site elevation) Plus (+) 51.25m (Height of the structure) = 58.122m AMSL.
- 3. This No Objection Certificate is being issued on the express understanding that site elevation reduced level (height above mean sea level) viz 6.872m relative location of the proposed building / structure and its distance and bearing the ARP / Runway ends as tendered by the applicant(s) are correct. If, however, at any stage it is established that the said data as tendered by the said applicant is actually different that the one tendered, and which could adversely affect aircraft operations, the structure or part(s) thereof in respect of which this "No Objection Certificate<sup>®</sup> is being issued will have to be demolished at his own cost as may be directed by the Airports Authority of India. The applicant)s) is / are, therefore advised in his / their own interest to verify the elevation and other data furnished for the site before embarking on the proposed construction.

4. The issue of the "No Objection Certificate" is further subject to the provisions of Section 9A of the Indian Aircraft Act, 1934, and those of any notification issued thereunder from time to time and under which also the applicant may be called upon by the Airports Authority of India to demolish in whole or in part the structure now being authorised vide this "No Objection Certificate".

5. No Radio / TV Antenna, Lightening Arresters, Staircase, Mumtee, Overhead Water Tank and attachment and Fixtures of any kind shall project above the height indicated in Para 2 above.

6. The use of electric fire or oil fired is obligatory, within 8 Km of the Aerodrome.

- 7. This certificate, is valid for a period of 3(three) years from the date of issue if the building / structure / chimney is not constructed and completed within the above mentioned period of 3(three) years he will be required to obtain fresh "No Objection Certificate" from the Chairman, Airports Authority of India and or the General Manager (Aerodromes), Airports Authority of India, Southern Region, Chennal Airport, Chennal - 600027. The date of completion of building / structure / Chimney should be intimated to the General Manager (Aero-SR), AAI, Chennai Airport, Chennai.
- 8. No light or a combination of lights which by reason of its intensity, configuration of colour may cause confusion with the aeronautical ground lights of the Airport shall be installed at the site at any time during or after the construction
- 9. This certificate is application only for the purposes of clearance from the angles of in safety and for height clearance only. This issue of NOC is with the approval of Competent Authority. Day and night markings with secondary power supply shall be provided as per ICAO standard

(R.D. ALEX) Senior Manager ATC (NOC) For General Manager (Aero-SR), AAI, Chennai Airport

Copy forwarded for information to:

1. The Executive Director, Airports Authority of India, Rajiv Gandhi Bhavan, Safdarjung Airport, New Delhi-3.

The D.E. (Telecom-Survey), BSNL, Ethiraj Salai, Chennai.

3. The Member Secretary, CMDA, 1 Gandhi Irwin Salai, Chennai.

राबिग्सन वे. अ 🗃 ROBINSON D. ALEX वरिष्ठ प्रबंधक (बि.या.नि. अनापत्ति) Seniot Manager (ATC-NOC) गारतीय विमानपत्तन प्राधिक 'irports Authority of India ं ; हवाईअङ्डा, चत्रई-60ः Chennai Airport, Chennai-60u u.c.l.

#### DEPARTMENT OF ENVIRONMENT

From

Thiru K.S. Neelakantan, I.F.S.,

Director, Dept. of Environment, Ground Floor, Panagal Buildings,

Saidapet, Chennai - 600 015

To

M/s. Hubert Enviro Care Systems (P) Ltd

No.18, 92nd Street, Ashok Nagar,

Chennai - 600 083

.....

#### R.C No.P1/1532/2007 dated 27.04.2007

Sir,

Sub: Coastal Regulation Zone - Status of property with reference to CRZ Notification - Requested - Regarding.

Ref: Letter dated 26.04.2007 from M/s. Hubert Environ Care Systems (P) Ltd., Chennai

XXXX

I am to inform that as per the HTL survey map available in this office, the property situated in S Nos. 13/1A of Egattur Village, Chengalpet Taluk, Kancheepuram District falls beyond 100 mts. of HTL of Buckingham Canal. Hence the said property does not attract the provisions of CRZ Notification 1991.

For Director of Environment



ந.க.எண்.ஜ்**2**/1164/2008 நாள். 13.03.2009

<u>பாவட்</u>ட காவல் அலுவலகம். காஞ்சீபுரம்.

#### தடையில்லாச் சான்ற

பொருள்:

காவல் – காஞ்சிபுரம் மாவட்டம் – கேளம் பாக்கம் காவல்நிலைய சரகத்திற்குட்பட்ட எண். 34, ஏகாட்டூர் கிராமத்தில் அடங்கிய சர்வே எண். 13/1ஏ –ல் 6.58 ஏக்கர் பரப்பளவு நிலத்தில் அடுக்குமாடி வணிக வளாகம், ஓட்டல் மற்றும் திரை அரங்கம் கட்டுவதற்கு தி/ள் Allied Majestic Promoters, சென்னை நிறுவனத்தினர் – டோக்குவரத்து மற்றும் காவல்துறையின் கண்ணோட்டத்தில் தடையில்லாச் சான்று கோரியது – தடையில்லாச் சான்று வழங்குவது – தொடர்பாக.

பார்வை:

- 1) தி/ள் Allied Majestic Promoters எண்.13. வெங்கட்ராமன் தெரு, தி.நகர், சென்னை –17 அவர்களின் ஊ.11.2007 நாளிட்ட மனு கூடுதல் காவல் ஆணையர், டோக்குவரத்து, சென்னை மாநகரம் அவர்களின் மேல்வரைவு கடித ந.க.எண்.SI/Addl.COP/Traffic/2360/44399/07 dated 1.12.2007 நாளிட்ட கடிதத்துடன் பெறப்பட்டது.
- 2) இவ்வலுவலக கடித ந.க.இதே எண். நாள்.24.6.08.
- 3) தி/ன் Allied Majestic Promoters எண்.13, வெங்கட்ராமன் தெரு, தி.நகர், சென்னை –17 அவர்களின் 06.03.2009 நாளிட்ட மனு.

மாமல்லபாம் உட்கோட்டம், கேளம்பாக்கம் காவல்நிலைய எல்லைக்குட்டட்ட ஏகாட்டூர் கிராம சர்வே எண்.13/1ஏ—ல் அடங்கிய 6.88 ஏக்கர் நிலப்பரப்பில் இணைப்பு வரைபடத்தில் குறிப்பிட்டுள்ளபடி தி/ள் Allied Majestic Promoters சென்னை—17 என்ற நிறுவனத்தினர் ஆடுக்குமாடி வணிக வளாகம், ஓட்டல் மற்றும் திரை அரங்கம் கட்ட போக்குவரத்து மற்றும் காவல்துறையின் கண்ணோட்டத்தில் அனுமதி வேண்டியது தொடர்பாக புலத்தணிக்கை செய்து விசாரணை கேமற்கொள்ளப்பட்டது.

2) கட்டிடங்கள் அமைய உள்ள இடமானது ஏகாட்டூர் கிராமத்தில் சென்னை — மாமல்லபுரம் செல்லும் பழைய மாமல்லபுரம் சாலையின் கிழக்குப்பக்கம் அமைந்துள்ளது. கட்டிடங்கள் அமைய உள்ள இடத்தின் வடக்கே அமிர்தாஞ்சன் நிறுவனத்தின் தொழிற்சாலையும், தெற்கு மற்றும் கிழக்குப்பகுதிகள் ஈரந்தானி அப்ஸ்கேஸ் நிறுவனத்தினருக்கு சொந்தமான பட்டா நிலமும் உள்ளது. அதில் ஈரந்தானி அப்ஸ்கேஸ் நிறுவனத்தினர் கட்டும் கட்டுமான பணி நடந்து வருகிறது.

- 3) இழுகண்ட நிறுவனத்தினர் கட்ட உத்தேசித்துள்ள தரைதளம் மற்றும் ஒன்பது அடுக்கு கொண்ட மாடி கட்டிடத்தில் ஐந்தாவது மாடியில் திரை அரங்கம் அமைய உள்ளது. ஒன்பது மாடியுடன் கூடிய அடுக்குமாடி கட்டிடமானது, கீழ்பகுதியில் இருந்து ஆரம்பிக்கும் கட்டிடமாக இரண்டு இடஸ்மென்ட அடுக்காகவும். அதறகு மேல் லோயர் கிரவுண்டு தளமும். அதற்கு மேல் தரைதளமும், அதனைத் தொடர்ந்து தரைதளத்தில் இருந்து 9 அடுக்குகளாக மொத்தம் 5647.54 சதூர மீட்டர் பரப்பளவில் கட்டிடம் அமைக்க உள்ளது விசாரணையில் தெரிய வருகிறது.
- 4) ஒன்பது அடுக்குகொண்ட அடுக்குமாடி கட்டிடத்தில், முதல் தளம் உணவகம் மற்றும் அதனைச் சார்ந்து ஷாப்பிங் காம்ப்ளக்ஸ் அமைக்கப்பட உள்ளதும். மேற்படி ஷாப்பிங் காம்ப்ளக்ஸ் இடத்தில் 270 கார்கள் நிற்கும் அளவிற்க பார்கிங் வசதிக்காக இடம் ஒதுக்கீடு செய்யப்பட்டுள்ளது.
- 5) இரண்டாவது மற்றும் மூன்றாவது மாடியில் ஷாப்பிங் காம்ப்ளக்ஸ் மற்றும் குடியிருப்புகள் அமையை உள்ளது. இறைகண்ட நிறுவனத்தார் 4வது மாடியில் அமைக்க உள்ள திரையரங்கம் மொத்தம் தரைதளத்தில் இருந்து 23 மீட்டர் உயரத்தில் அமைய உள்ளது. இறைபடி திரையரங்கம் 9 பிரிவுகளாக சிறு சிறு திரையரங்கமாகவும், மொத்தம் 1.715 நபர்கள் அமர்ந்து பார்க்கும் வண்ணம் 9 திரைகள் அமைக்கப்பட உள்ளது விசாரணையில் தெரிய வருகிறது. மேற்படி திரையரங்கம் வந்து செல்வோர்களின் அவசர கால நிலையில் திரையரங்கம் விட்() வெளியேற ஓவ்வொரு திரையரங்குகளிலும் 1.8m x 2.4m அளவுள்ள 5 முதல் 3 நடர்கள் வெளியேறும் நிலையில் அமைக்கப்பட்டும், 7 இடங்களில் தீ ഥ്നുവര് ഥിത് இணைப்புகளில் ஏற்படும் விபத்துக் காலங்களில் மக்கள் வெளியேற படிக்கட்டு வசதிகள் செய்யப்பட்டு மேற்படி திரையரங்கம் செயல்டா தேசிய கட்டி விதி (National Building Code 2005 Sec.4) — க்டிடி ஒப்புதல் பெறப்பட்ட நிலையில் கட்டிடங்கள் அமைய உள்ளது விசாரணையில் தெரிய வருகிறது. இழைம், நான்காவது மாடியில் 9 திரையரங்கம் மற்றும் 322 கார்கள் நிறுத்தம் செய்யக்கூடிய அளவில் பார்கிங் இடவசதி செய்யப்பட்டும் வெளிநடர்களின் கார் டார்கிங் வேண்டி 125 கார்கள் நிற்கும் அளவில் கூடுதலாக இடவசதி அமைக்கப்பட உள்ளதும் விசாரணையில் தெரிய வருகிறது.
- 5) ஐந்தாவது பாடி முதல் எட்டாவது பாடிவரையில் குடியிருப்புகளுக்கான கட்டிடங்களும் ஒன்பதாவது மாடியில் குடியிருப்புகளுடன் கூடிய ஷாப்பிங் காம்ப்ளக்ஸ் – ம் அமைய உள்ளது. மேல்தளமாகிய மொட்டை மாடியில் ஒரு நீச்சல் குளம் அமைக்கப்பட்டும் அதனுடன் ஒரு டென்னிஸ் ஆடுகளமும் அமைய உள்ளது. மேலும், திரையரங்கம் அமைய உள்ள தளத்திற்கு மேல்பகுதியில் நான்கு தளங்களும், கீழ்பகுதியில் தரைகளத்துடன் கூடிய நான்கு தளங்களும் கார்பார்க்கிங் வசதிக்காக இரண்டு பேஸ்மென்ட் தளங்களும் அமைக்க உள்ளதும் விசாரணையில் தெரிய வருகிறது.

பொதுமக்கள் அதிகம் கூடக்கூழய இடங்களாக உணவகம் அமைய உள்ள முதல் தளமும் அதற்கு மேல் உள்ள இரண்டு மற்றும் மூன்றாவது தளங்கள் வர்த்தக ரீதியில் ஷாப்பிங் காம்பளக்ஸ் அமைய உள்ள இடமாக கட்டம் அமையை உள்ளது.

6) கட்டிடங்கள் அமைய உள்ள இடச்சிற்கு வந்து செல்லும் வாகனங்கள் பழைய மாமல்லபுரம் சாலையில் இருந்து, கட்டிடம் அமைய உள்ள இடத்தின் வடக்குப் பக்கம் நுழைவுப் பகுதியாகவும், தெற்குப் பக்கம் வெளிவரும் பகுதியாகவும் தீர்மானிக்கப்பட்டு கட்டிடங்கள் அமைய உள்ளது. ത്രെക്കാര് വേസ് വാദ്രം இடத்தில் போக்குவரத்திற்கோ. பொதுமக்களுக்கோ இடையூறு ஏதும் ஏற்பட வாய்ப்புகள் இல்லை என விசாரணையில் தெரிய வருவதாலும், பார்வை 3-ல் கண்ட மேற்படி நிறுவனத்தாரின் மனுவில் உறுதி அளித்துள்ளவாறு அனைத்து முன்னெச்சுரீக்கை நடவழக்கைகளுடன் அடுக்குமாழ வணிக வளாகம், ஓட்டல் மற்றும் திரை அரங்கம் அமையும்பட்சத்தில், போக்குவரத்து கண்ணோட்டத்தில் மறுப்பின்மை சான்று வழங்க காவல்துறை சார்பில் ஆட்சேடணை ஏதும் இல்லை எனத் தெரிவித்துக்கொள்கிறேன்.

தாமும் மாவட்டம்.

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Original given to DTCP cherleper (VSaninallam.

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#### ஆணை:-

திரு.ஜெ.முகம்மது அர்ஷத், த/பெ.எம்.ஏ.ஜின்னா, M/s.Allied Majestic Promoters, No.117 Sir Thiyagaraya Road, T.Nagar, Chennai-17 отю́т цый செங்கல்பட்டு வட்டம், ஏகாட்குர் கிராமப் புலஎண்.131/ஏ-ல் நிரந்தர திரையரங்கம் அமைத்திட மறுப்பின்மைச்சான்று கோரியது தொடர்பாக சார்நிலை அலுவலர்களிடம் அறிக்கைகள் கோரப்பட்டன.

தடையின்மைச்சான்று விண்ணப்பிக்கும் பொருட்டு, ஒருதிரையரங்கிற்கு உரிமக் கட்டணமாக ரு.1,000 (ருபாய் ஒருஆயிரம் மட்டும்) வீதம் 9(ஒன்பது) திரையரங்குகளுக்கு ரூ.9,000 (ரூபாய் ஒன்பதாயிரம் மட்டும்) காஞ்சிபுரம் பாரதஸ்டேட் வங்கியில் 20.6.2008 செலுத்தப்பட்டுள்ளது. தடையின்மைச் வழங்கிட ஆட்சேபணைகள் குறித்து காஞ்சிபுரம் சான்று மாவட்ட அரசிதழிலும், காஞ்சிபுரம் மாவட்ட ஆட்சியர் அலுவலகம் மற்றும் திருப்போருர் ஊராட்சி ஒன்றிய அலுவலக விளம்பரபலகையில் அறிவிக்கை பிரசுரம் செய்யப்பட்டது. ஆட்சேபணைகள் ஏதும் பெறப்படவில்லை.

2. முட்டுக்காடு கிராம ஊராட்சி மன்றத்தின் 28.6.2008 தேதிய செங்கல்பட்(ந வட்டம், ஏகாட்கர் கிராமத்தில் திரையரங்குகள் அமைத்திட மறுப்பின்மைச்சான்று வழங்க தீர்மானம் வழங்கப்பட்டுள்ளது.

- 3. பிரஸ்தாப புலத்தில் நிலஎடுப்பு நடவடிக்கைகள் தற்பே ஏதுமில்லையென நிலஎடுப்பு அலுவலர்களும், செங்கல்பட்டு, வணிக வர் உதவி ஆணையர் தடையின்மை சான்று கோரும் நிறுவனம், இம்மாவட்டத்தில் தமிழ்நாடு கேளிக்கைவரிச் சட்டத்தின் கீழ் தண்டனை ஏதும் பெறவில்லை என்றும், வரிபாக்கி நிலுவை ஏதுமில்லை என்றும் தெரிவித்துள்ளார்.
- காவல்துறை கண்காணிப்பாளர், காஞ்சிபுரம் அறிக்கையில் செங்கல்பட்டு வட்டம், ஏகாட்கர் கிராமப் புலஎண்.13/1ஏ1-ல் (பழைய புல எண்.13/1ஏ)-ல் 9 (ஒன்பது) திரையரங்குகள் அமையவுள்ள கட்டிடப் பகுதிக்குள் வாகனபோக்கு வரத்திற்கும் பொதுமக்களின் அமைதிக்கும் குந்தகம் விளைவிக்கக் கூடிய சாத்தியக் கூறுகள் இல்லையென்றும், சட்டம் பிரச்சனைகள் வாய்ப்புகள் ஒழுங்கு ஏற்பட இல்லையென்பதால், மறுப்பின்மைச்சான்று சார்பில் ஆட்சேபணை வழங்க காவல்துறை இல்லையென தெரிவித்துள்ளார்.
- 5. செங்கல்பட்டு வட்ட ஆட்சியர் பிரஸ்தாப புலத்தினை 7.7.2008 தணிக்கை அன்று செய்து, கீழ்க்கண்டவாறு சமர்ப்பித்துள்ளார். செங்கல்பட்டு வட்டம், நெ.34 ஏகாட்கர் கிராமப்புல எண்.13/1ஏ1-ல் 2.26.5 உறக். புஞ்சை நிலம் ஆயிஷா மற்றும் முக்ரிம் பெயரில் பட்டாஎண்.7-ன் கீழ் கூட்டுப் பட்டாவாக தாக்கலாகியுள்ளது. மனுதாரர் திரு.முகம்மது **இ**ப்புலத்திற்கு அர்ஷத், த/பெ.ஜின்னா என்பவருக்கு பட்டாதாரர்களால் பொது அதிகாரம் வழங்கப்பட்டுள்ளது. **இ**ப்புலத்தில் ഖഞ്ഞിങ வளாகம், உணவகத்துடன் Ja IQUI மொக்கம் 56471.54ச.மீ., பரப்பில் ஒன்பது அ(ந்க்கு IDITIQ. கட்டிடத்தில் (ஒன்பது)திரையரங்குகள் அமைக்க உத்தேசிக்கப்பட்டுள்ளது.

பிரஸ்தாப புலம் பழைய மகாபலிபுரம் சாலைக்கு கிழக்குப் பக்கத்தில் அமைந்துள்ளது. உத்தேச திரையரங்கிற்கு இச்சாலை அணுகு பாதையாக 200 மீட்டர் உள்ளது. பிரஸ்காப புலத்திற்கு சுற்றளவில் நிலையங்களோ, பொதுமைதானம், வழிபாட்டு தலங்கள், உயர் குறைந்த அழுத்த மின் கம்பிகள், புராதானச்சின்னங்கள், விலையுயர்ந்த மரங்கள் ஏதுமில்லை. பிரஸ்தாப புலங்கள் நிலச்சீர்த்திருத்தம் நகர்ப்புற நிலவரம்பு கவரப்படவில்லை. நிலஎ(நப்பில் விசாரணை அறிக்கையுடன் பிரஸ்தாப புலத்தில் 9 (ஒன்பது) திரையரங்குகள் அமைப்பது தொடர்பாக பொதுமக்களிடமிருந்து ஆட்சேபணைகள் பெறப்படவில்லை ஏதும் மறுப்பின்மைச் சான்று வழங்கலாம் என்று பரிந்துரை செய்துள்ளார். செங்கல்பட்டு வருவாய்க் கோட்ட அலுவலர் (பொறுப்பு) பிரஸ்தாப புலத்தினை 23.10.2008 அன்று நேரடி புலத்தணிக்கை மேற்கொண்டு மேற்படி புலத்தில் 9 (ஒன்பது) திரையரங்குகள் அமைத்திட மறுப்பின்மைச் சான்று வழங்கலாம் என்று பரிந்துரை செய்துள்ளார்.

6. எனவே, தமிழ்நாடு திரையரங்குகள் (ஒழுங்குமுறைகள்) விதிகள், 1957 விதி-36(1)-ன்படி வழங்கப்பட்டுள்ள அதிகாரத்தின்படி, காஞ்சிபுரம் மாவட்டம். செங்கல்பட்டு வட்டம், எண்.34 ஏகாட்டு:ர் கிராமம் புலஎண்.13/1ஏ1-ல் பல அடுக்குகளுடன் கூடிய வணிக வளாகம், குடியிருப்புகள் மற்றும் உணவகத்துடன் கூடிய கட்டிடத்தில் ஒன்பது (9) திரையரங்குகள் அமைத்திட தடையின்மைசான்று படிவம்-2பி-ல் வழங்கப் படுகிறது. இத்துடன் தடையின்மைச்சான்றும், அங்கீகரிக்கப்பட்ட வரைபடமும் இணைக்கப்பட்டுள்ளது.

ஒம்- சந்தோஷ் கே மிஸ்ரா, மாவட்ட ஆட்சித் தலைவர். காஞ்சிபுரம்

/உத்திரவின்படி/

மேலாளர் (ந்தியியல் )

பெறுநர்

திரு.ஜே.முகம்மது அர்ஷத், M/s.Allied Majestic Promoters, No117 Sir Thiyagaraya Road, T.Nagar, Chennai 17 20/11/08

நகல்: சார் ஆட்சியர்,செங்கல்பட்டு நகல்: வட்டாட்சியர்,செங்கல்பட்டு

### <u>படிவம் - 2-பி</u> தடையின்மைச் சான்றிதழ் (விதி 36 பாகம் 2)

1957 ஆம் ஆண்டின் திரையரங்குகள் (ஒழுங்குபடுத்தும்) விதிகள் 2-ம் பாகம், 36(1)விதியில் அளித்துள்ள அதிகாரங்களைக் கொண்டு காஞ்சிபுரம் மாவட்ட ஆட்சித் தலைவர் அவர்களால் திரு.ஜெ.முகம்மது அர்ஷத், த/பெ.எம்.ஏ.ஜன்னா, M/s.Allied Majestic Promoters, No.117 Sir Thiyagaraya Road, T.Nagar, Chennai-17 செங்கல்பட்டு வட்டம், நெ.34. ஏகாட்டு: ர் கிராமம் அடுக்குகளுடன் வணிக புலஎண்.13/1ஏ1-ல் பல JE 10 III குடியிருப்புகள் மற்றும் உணவகத்துடன் கூடிய கட்டிடத்தில் ஒன்பது (9) திரையரங்குகள் அமைக்க தடையில்ல<u>ை</u> எனக்கருதி இச்சான்றிகம் வழங்கப்படுகிறது.

- 2. திரையரங்குகள் அமைக்கப்படும் இடத்தின் விவரங்கள் கீழே கொடுக்கப்பட்டுள்ளன.
  - அ. புல எண். 13/1ஏ1
  - ஆ. நெ.34. ஏகாட்கர் கிராமம்
  - இ. செங்கல்பட்டு வட்டம்

#### நிபந்தனைகள்:

- 1. இச்சான்று பெற்றபின் விதிகளின்படி முறையாக திரையரங்கின் கட்டிட வரைபட ஒப்புதல் பெற்றும், ஒப்புதல் பெற்றபடி அமைக்கப் பட்டிருப்பது குறித்து பொதுப்பணித்துறை பொறியாளரின் சான்றிதழின் அடிப்படையில் மட்டுமே 'சி' படிவ உரிமம் பெற மனு செய்திடல் வேண்டும்.
- 2. இந்த தடையின்மைச் சான்று கையொப்பமிட்ட தேதியிலிருந்து 5 (இந்து) ஆண்டுகள் வரை செல்லுபடியாகும். இந்த கால அளவுக்குள் திரையரங்குகளை கட்டிமுடிக்காவிட்டால், புதிய தடையின்மைச்சான்று பெற விண்ணப்பிக்க வேண்டும்.

2008 ஆம் ஆண்டு அக்டோபர் மாகம் ஆம் நாள் கையொப்பும்டப்பட்டது.

மாவட்ட ஆட்சித் தலைவர் காஞ்சிபுரம்

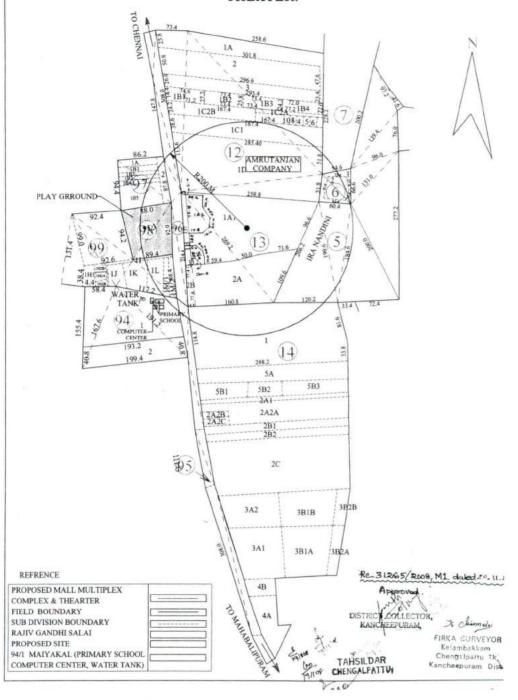
பெறுநர்

திரு.ஜெ.முகம்மது அர்ஷத், திரு.எழ்த் M/s Allied Majestic Promoters, No.117 Sir Thiyagaraya Road,

T.Nagar, Chennai-600 017

(3)1

COMBINED SKETCH SHOWING 200 METRE RADIUS IN NO. 34 EGATTUR VILLAGE, OF S.NO. 13/1A, FOR THE PROPOSED CONSTRUCTION OF MALL MULTIPLEX COMPLEX AND THEATER.



ந.க.எண்.ஜ்2/1164/2008 நாள். 24.06.2008 மாவட்ட காவல் கூலுவலகம், காஞ்சிபுரம்.

#### கடையில்லாச் சான்று

6)LITHTHEIL:

காவல் — காஞ்சீபுரம் மாவட்டம் — கேளம் பாக்கம் காவல்நிலைய சரகத்திர்குட்பட்ட எண்.34, ஏகாட்டூர் கிராமத்தில் அடங்கிய சர்வே எண். 13/1ஏ—ல் 6.68 ஏக்கர் பரப்பளவு நிலத்தில் அடுக்குமாடி வணிக வளாகம், ஓட்டல் மற்றும் திரை கூரங்கம் கட்டுவதற்கு கி/வ். Allied Majestic Promoters, சென்னை நிறுவனத்தினர் — டோக்குவரத்து மற்றும் காவல்துறையின் கண்டுணாட்டத்தில் தடையில்லாச் சான்று கோரியது — தடையில்லாச் சான்று வழங்குவது தொடர்பாக.

பார்வை:

தி/ன் Allied Majestic Promoters, எண்.13, வெங்கட்ராமன் தெரு, தி.நகர், சென்னை —17 அவர்களின் ஊ.11.2007 நாளிட்ட மனு கூடுதல் காவல் ஆணையர், டோக்குவரத்து, சென்னை பாநகரம் அவர்களின் மேல்வரைவு கடித ந.க.எண்.SI/Addl.COP/Traffic/2360/44399/07.31.12.2007 நாளிட்ட கடிதத்துடன் பெறப்பட்டது.

மாமல்லபரம் உட்கோட்டம், கேளம்பாக்கம் காவல்நிலைய எல்லைக்குட்பட்ட ஏகாட்டூர் கிராம சர்வே எண்.13/1ஏ—ல் கூடங்கிய 6.88 ஏக்கர் நிலப்பரப்பில் இணைப்பு வரைடாத்தில் குறுப்பிட்டுள்ளபடி தி/ள்.Allied Majestic Promoters, சென்னை—17 நிறுவனத்தினர் கூடுக்குமாடி வணிக வளாகம், ஓட்டல் மற்றும் திரைகரங்கம் கட்ட போக்குவரத்து மற்றும் காவல்துறையின் கண்கேனாட்டத்தில் கூறுமதி வேண்டியது தொடர்பாக புலத்தணிக்கை செய்து வீசாரணை வேற்கொள்ளப்பட்டது.

2) கட்டிடங்கள் அடைய உள்ள இடமானது ஏகாட்டூர் கிராமத்தில் சென்னை – மாமல்லபுரம் செல்லும் பழைய மாமல்லபுரம் சாலையின் கிழக்குப் பக்கம் அமைந்துள்ளது. கட்டிடங்கள் அமைய உள்ள இடத்தின் வடக்கே அமீர்தாஞ்சன் நிழவனத்தின் தொழிற்சாலையும், தெற்கு மற்றும் கிழக்குப்பத்திகள் ஈழக்கான "கூப்ஸ்கேஸ்" நிறுவனத்தினருக்கு சொந்தமான பட்டா நிலமும் உள்ளது. கூதில் ஈரந்தான் "கூப்ஸ்கேஸ்" நிறுவனத்தினர் கூட்டிடங்கள் கட்டும் கட்டுமான பண் நடந்து வருகிறது.

- 3) இறுகண்ட நிறவனத்தினர் கட்ட உத்தேசித்துள்ள தரைளம் மற்றும் ஒன்பது அடுக்கு கொண்ட மாடி கட்டிடத்தில் ஐந்தாவது மாடியில் திரை அரங்கம் அடைய உள்ளது. ஒன்பது மாடியுடன் கூடிய அடுக்குமாடி கட்டிடமாக இரண்டு கட்டிடமாக இரண்டு இயல்லென்ட் அடுக்காகவும், அதற்கு இடில் கோயர் கிரவுண்டு தளமும், அதற்கு இடில் கோயர் கிரவுண்டு தளமும், அதற்கு இடில் தரைதளத்தில் இருந்து 9 அடுக்குகளாக மொத்தம் 6647.64 சதுர மீட்டர் பரப்பளவில் கட்டிடம் கூடைக்க உள்ளது விசாரணையில் தெரியவருகிறது.
- 4) ஒன்பது அடுக்குகொண்ட அடுக்குமாடி கட்டிடத்தில், முதல் தளம் உணவகம் மற்றும் அதனைச் சார்ந்து ஷாப்பிங் காம்ப்ளக்ஸ் அமைக்கப்பட்டும், இற்படி ஷாப்பிங் காம்ப்ளக்ஸ் இடத்தில் 270 கார்கள் நிற்கும் அளவிற்கு பார்கிங் வசதிக்காக இடம் ஓதுக்கீடு செய்யப்பட்டுள்ளது.
- நெண்டாவது மற்றும் மூன்றாவது மாடியில் ஷாப்பிங் காம்ப்ளக்ஸ் மற்றும் குடியிருப்புகள் கூடைய உள்ளது. இழக்கண்ட நிழுவனக்கார் 4வது மாடியில் கூடைக்க உள்ள கிரையரங்கம் மொக்கம் கூரைகளக்கில் இருந்து 23 மீட்டர் உயரக்கில் கூடைய உள்ளது. இற்படி திரையரங்கம் 9 பிரிவுகளாக சிறு சிறு திரையரங்கமாகவும், மொக்கும் 1,716 நடர்கள் கூமர்ந்து பார்க்கும் வண்ணம் 9 கிரையரங்கமாகவும், மொக்கும் 1,716 நடர்கள் கூமர்ந்து பார்க்கும் வண்ணம் 9 கிரையரங்கம் வைதை செல்வோர்களின் கூவசர கொல நிலையில் கிரையரங்கம் விட்டு வெளியேற ஒவ்வொரு கிரையரங்குகளிலும் 1.3m x 2.4m களவுள்ள 6 முதல் 3 நடர்கள் வெளியேறும் நிலையில் கூடைக்கப்பட்டும், 7 இடங்களில் கீ மற்றும் மீன் இணைப்புகளில் ஏற்படும் விடத்துக் காலங்களில் மக்கள் வெளியேற படிக்கட்டு வசதிகள் செய்யப்பட்டு இற்புல் கிரையரங்கம் செயல்பட கேசிய கட்டிட விகி

(National Building Code 2005 Sec.4) —ன்படி ஒப்புதல் பெறப்பட்ட நிலையில் கட்டிடங்கள் கூடைய உள்ளது விசாரணையில் தெரிய வருகிறது. மேலும், நான்காவது மாடியில் 9 திரையரங்கம் மற்றும் 322 கார்கள் நிறுத்தம் செய்யக்கூடிய களவில் பார்கிங் இடவசதி செய்யப்பட்டும் வெளிநபர்களின் கார் பார்கிங் மேண்டி 125 கார்கள் நிற்கும் களவில் கூடுதலாக இடவசதி கையில் கூடுதலாக இடவசதி கையில் கூடுதலாக இடவசதி கையில் கூடுதலாக இடவசதி கையில் கூடுதலாக இடவசதி

எட்டாவது மாடிவரையில் 6) லந்தாவது LOTTIO (ගුණුරේ) குடியிருப்புகளுக்கான கட்டிடங்களும் ஒன்பதாவது மாடியில் குடியிருப்பகளுக் கூடிய ஜோப்பூங் காம்ப்வக்ஸ் – ம் அமைய உள்ளது. மேல்சுளமாகிய மொட்டையால்யில் ஒரு நீச்சல் குளம் அமைக்கப்பட்டும் அதனுடன் ஒரு அடைய உள்ளது. இறையர். அரையரங்கம் அடைய പെഞ്ഞ് എന്ത്രെഡ് യിലുക്കുന്നു நான்கு தளங்களும், 9 बाबा சவச்சிற்க கீழ்புக்கூயில் நான்கு களங்களம் காப்பார்க்கிங் சரைசளச்சுடன் 5 IOILI ഖക്ക്കത്തെ இரண்டு பேஸ்மென்ட் தளங்களும் அமைக்க உள்ளதும் விசாரணையில் தெர்ய பொதுமக்கள் அதிகம் கூடக்கூடிய இடங்களாக உணவகம் முதல் தளமும் அதற்கு இமல் உள்ள இரண்டு **ഷ**്കാഥധ ഉംപ്പ Lammin முன்றாவது தளங்கள் வர்த்தக ரீதியில் ஷாப்பிங் காம்ப்ளக்ஸ் அமைய உள்ள இடமாக கட்டிடம் கூடையை உள்ளது.

கட்டிடங்கள் கூறைய உள்ள இடத்திற்கு வந்து செல்லும் வாகனங்கள் பழைய மாமல்லபுரம் சாலையில் இருந்து, கட்டிடம் கூறைய உள்ள இடத்தின் வடக்குப் பக்கம் நுழைவுப் பகுதியாகவும், தெற்குப் பக்கம் வெளிவரும் பகுதியாகவும் தீர்மானிக்கப்பட்டு கட்டிடங்கள் கூறைய உள்ளது. இதனால் மேற்படி இடத்தில் டோக்குவரத்திற்கு இடையூறுகள் ஏதும் ஏற்பட வாய்ப்புகள் இல்லை என விசாரணையில் தெரிய வருகிறது.

4) பழைய மாமல்லப்ரம் சாலையை ஆறுவழி பாதையாக தற்போது சுகலப்படுத்தி வருவதாலும், இற்படி இடம் இராடில் இருந்து சுமர் 6 மீட்டர் தூரம் வரை கிழக்கு பக்கம் தவ்வியும் சூதில் இருந்து சுற்றுச்சுவர்கள் சுமைக்கப்பட்டு இறைபடி கட்டிடங்களுக்கு வந்து செல்லும் இரண்டு சக்கர வாகனம் மற்றும் நூன்கு சக்கர வாகனங்கள். கட்டிடப்புக்கிகளுக்கு உள்ளேயே நிறக்கும் செய்யும் രാഹാന്റെ വേട്ടാവരാ பார்கிங் இட வசதியாக கீழ்தளம், தரைத்தளம் மற்றும் லோ ரூப் கொண்ட **ച**രെധ്വപത് കല്ളപ്കൊണ് **ച**രെധ്വ ഉണ്ണത്. எனவே. **المالات** 611TCD60T பொதுமக்கள்ள் போக்கவாச்சிற்கம். **ക**്ടെവടിക്കുന് கர்க்கம் ഖ്തബല്ക്കക്കാല ക്വാക്കിവക്കുന്നുകൾ തില്ക്കാരം. (ജ്വാവ) கப்பாங்கள் அமைய உள்ள இடங்களைச் சுற்றிலும் பலமாடி அடுக்குமாடி கப்டிங்கள் கட்டப்பட்டு வருவதாலும், தனிப்பட்ட நூர்களின் குடியிருப்புகள், உள்ள இடத்தின் அருகில் صابور له CONCOLUM തരാവെക്കാവർ . பொதுமக்கள்டம் இருந்து எவ்விதமான புகார்களும் கட்டிடங்கள் கட்டப்பட்டு ഖന്നുവരു ചെടുപ്പു കൊന്നത്വെക്കു മനഖരാദ്രക്കൊലാ ഒരുപ്പാരുക്കാരം. ക്കാര്യ சட்டம் ஒழுங்கு பிரச்சனைகள் ஏற்படவும் வாய்ப்புகள் இல்லை.

மனுதாரர் திரையரங்கம், குடியிருப்புகளுடன் கூடிய ஷாப்பிங் காம்ப்ளக்ஸ் අතරය්ත உள்ள குட்டி டமானது பாதுகாப்பு மிக்கதாகவும். உள்ள மக்கள் அவசர காலத்தில் திரையரங்கம் சிரையாங்கச்சில் வட்டு பாதுகாப்புடன் தரைத்தளம் வந்து வெளியேற எல்லா வசதிகளுடன் கட்டிடம் அமைய உள்ளது ഖ് ക്വ്യാക്കായിൽ കെട്ടിയ ഖന്ക്കായർ. ക്കൂക്ക് കാര്യക്കിൽ பொதுமத்தள் விரைவாக வெளியேறுவது என்பது நடைமுறை சாத்தியமில்லை. ഒങ്ങി, ഥക്ഷണ് ഇന്നലും ജ്ഞ്വലുൻക്കുക്കണ് വെന്ത്വൾക്ക് വാൽ വന്നവർ (SLM) 25600TL <u>കൂട്ടണക്ക്</u>യരാ ക്കാധക്കുൾ பட்சத்**ക്**രം. 5011 **ചാല്**ക്കാര കാര്ത **ച**ഥ്ചിക ക്രാഖരാക്കിക്കന IRMINISTEN STOTE OF THE PROPERTY OF THE PROPER අட (පෙටනානෝ මුමානා හෙස් මසාල් මස්වස්ම සාක්ෂිකාන්).

> காவல் கண்காணப்பாளருக்காக. கொஞ்சியூம் மாவட்டம்.

டெறூங் தி/ன்.Allied Majestic Promoters, எண்.13, வெங்கட்ராமன் தெரு, தி.நகர், சென்னன—17. -

ந.**க.எண்.ஜி2/1164/2008** நாள். 24.06.2008 ഥനപെட்ட മനഖരം ക്രൂഖരാമം. മന⊛്ക്പുഥ്.

## முன்று காலவிய கை

பொருள்: காவல் – காஞ்சீபூரம் மாவட்டம் – கேளம் பாக்கம் காவல்நிலைய சரகத்திற்குட்பட்ட எண்.34, ஏகாட்டூர் கிராமத்தில் கூடங்கிய சர்வே எண். 13/1ஏ – ல் 6.68 ஏக்கர் பரப்பளவு நிலத்தில் கூடுக்குமாடி வணிக வளகம், ஓட்டல் மற்றும் திரை

கூரங்கம் கட்டுவதற்கு தி/ள். Allied Majestic Promoters, சென்னை நிறுவனத்தினர் – டோக்குவரத்து மற்றும் காவல்துறையின் கண்ணோட்டத்தில் தடையில்லாச் சான்ற கோரியது – தடையில்லாச் சான்ற வழங்குவது

தொடர்பாக.

பார்வை: தி/ன் Allied Majestic Promoters, எண்.13, வெங்கட்ராமன் தெரு, தி.நகர், சென்னை—17 அவர்களின் \$9.11.2007

நாளீட்ட மனு கூடுதல் காவல் ஆணையர், போக்குவரத்து,

சென்னை பாநகரம் அவர்களின் மேல்வரைவு கடித ந.க.எண்.SI/Addl.COP/Traffic/2360/44399/07. 31.12.2007

நாளிட்ட கடிதத்தான் பெறப்பட்து.

மாமல்லபரம் உட்டுகாட்டம், டூகளம்பாக்கம் காவல்நிலைய எல்லைக்குட்பட்ட ஏகாட்டூர் கிராம சர்வே எண்.13/1ஏ—ல் கூடங்கிய 6.88 ஏக்கர் நிலப்பரப்பில் இணைப்பு வரைபடத்தில் குறிப்பிட்டுள்ளபடி தி/ள்.Allied Majestic Promoters, சென்னை—17 நிறுவனத்தினர் கூடுக்குமாடி வணிக வளாகம், ஓட்டல் மற்றும் திரைகரங்கம் கட்ட டூருக்குவரத்து மற்றும் காவல்துறையின் கண்டுணைட்டத்தில் கூனுமதி வேண்டியது தொடர்பாக புலத்தணிக்கை செய்து விசாரணை வேற்கொள்ளப்பட்டது.

உற்று வட்டிடங்கள் அடைய உள்ள இடமானது ஏகாட்டூர் கிராமத்தில் சென்னை பாமல்லபுரம் செல்லும் பழைய மாமல்லபுரம் சாலையின் கிழக்குப் பக்கம் அமைந்துள்ளது. கட்டிடங்கள் அமைய உள்ள இடத்தின் வடக்கே அமிர்தாஞ்சன் நிறுவனத்தின் தொழிற்சாலையும், தெற்கு மற்றும் கிழக்குப்பதுத்கள் ஈரந்தான் "கூப்ஸ்கேஸ்" நிறுவனத்தினருக்கு சொந்துமன பட்டா நீலமும் உள்ளது. கூதில் ஈரந்தான் "கூப்ஸ்கேஸ்" நிறுவனத்தினர் கூட்டிடங்கள் கட்டும் கட்டுமான பண் நடந்து வருகிறது.

- இற்கண்ட நிறவனத்தினர் கட்ட உத்தேசித்துள்ள தரைவம் மற்றும் 3) ஒன்பது அடுக்கு கொண்ட மாடி கட்டிடத்தீல் ஐந்தாவது மாடியில் திரை طالبة الله அடைய உள்ளது. ஒன்பது மாலுடன் **ENDIN** CHASCO LOTTO கட்டிபானது, கீழ்பகுதியில் இருந்து ஆரம்பிக்கும் கட்டிபாக இரண்டு **ചേബ്റിലാ**പ് ക്യക്കാരവുന്ന്, ക്യൂന്ത് യാക് ശേസ്ഥന് Alle Legis (P தனாமம், கதற்குமேல் தனரதளமும் கதனைத் தொடர்ந்து தரைதளத்தில் இருந்து 9 ക്കുന ഫ്ല് വുല്ലങ്ങി அடுக்குகளாக மொத்தம் E6471.54 CN 101 10 ട്കാഥക്ക ഉണ്ടുള്ള മിക്സ്ക്കാരാസിലെ കെന്നുവനുക്കാരും.
- 4) ஒன்பது அடுக்குகொண்ட அடுக்குமாடி கட்டிடத்தில், முதல் தளம் உணவகம் மற்றும் அதனைச் சார்ந்து ஷாப்பிங் காம்ப்ளக்ஸ் அமைக்கப்பட்டும், இற்படி ஷாப்பிங் காம்ப்ளக்ஸ் இடத்தில் 270 கார்கள் நிற்கும் அவவிற்கு பார்கிங் வசதிக்காக இடம் ஒதுக்கிடு செய்யப்பட்டுள்ளது.
- 5) குழ்யிருப்புகள் அடைய உள்ளது. குறுகண்ட நிறவனத்தார் Lammin மாடியில் கூடைக்க உள்ள திரையரங்கம் மொத்தம் தரைதளத்தில் இருந்து மீட்டர் உயாத்தில் கூடைய உள்ளது. (Simile திரையரங்கம் பிரிவுகளாக சிறு சிற திரையரங்குமாகவும், மொத்தும் 1,716 நடர்கள் கூமர்ந்து வண்ணம் 9 திரைகள் கோமக்கப்ப உள்ளது விசாரகையைில் தெரிய வருகிறது. மேற்படி திரையரங்கம் வந்து செல்வோர்களின் கூவசர Theneutien திரையரங்கம் வீட்டு வெளியேற ஒவ்வொரு **ENTIFE** ളിക്കുന്നുള്ള കണ്ടിയുന്ന 1.8m x 2.4.m കണ്ടിയുണ്ട് 5 സുളർ 3 സ്ത്രീക്ക് ചെണ്ടിയുന്നുന് ஏற்படும் விடத்துக் காலங்களில் மக்கள் வெளியேற படிக்கப்டு வசதிகள் செய்யப்பட்டு இறுபர திரையரங்கம் செயல்பட தேசிய கட்டிட விதி

(National Building Code 2005 Sec. 4) - STLIP QUILES OLDULL BOODS ON TOT INCOM CHOO!LULL உள்ளது விசாரணையில் தெரிய வருகிறது. பாலால் தீரையரங்கம் ummu INIGITATION 9 399 கார்கள் நிறுத்தும் பார்கிங் செய்யப்பட்டும் வெளிநடர்களின் செப்பக்கூடிய ത്തില് 125 கார்கள் நிற்கும் கூளவில் கூடுதலாக இடவசதி കാനു പാനുക്ക് കോക്കും க்கைய்க்கப்பட உள்ளதும் வீசாரணையில் தெரிய வருகிறது.

SOLD MONEY (மத்தல்) எட்டாவது மாடிவகூரயில் 6) LOTTO குடியிருப்புகளுக்கான கட்டிடங்களும் ஒன்பதாவது மாடியில் குடியிருப்புகளுடன் ജെസ്ഥിൻ കസ്ഥ്യക്കാ — ന് ക്കാശ്യ உள்ளது. மேல்சளமாகிய STIPLI ஹ நீச்சல் குளம் அமைக்கப்பட்டும் அதனுடன் പ്രെത്തിലുള്ള O(I) ട്ടോവധ ഉണ്ണതു. இழைப், திரையரங்கம் அமைய പെത്ത് ക്യാക്കസ്ഥ **අග්ප්තිර්ග** මාන්වෙන්වෙන් <u>श्र्वाका</u> நான்கு தளங்களும், கீழ்பக்கியில் தரைத்துக்கு க் 5 IOIU நான்கு தளங்களும் கார்பார்க்கிங் வசசிக்காக இரண்டு பேஸ்பென்ட் தளங்களும் அடைக்க உள்ளதும் வீசாரணையில் தெரிய பொதுமக்கள் அதிகம் கடக்கமும் இடங்களாக உணவகம் ചെന്നുക്കുള്ള . CEROLOU உள்ள (LPSTO) **த**வரும் ക്കുന്നു വരാ உள்ள (h LOMONIO ലാത്തനവരാ தனங்கள் வர்த்தக ரீசியில் ஷாப்பிங் காம் ப்ளக்ஸ் CECTUL உள்ள இடமாக கட்டிடம் கூடையை உள்ளது.

கட்டிடங்கள் கூறப்ப உள்ள இடத்திற்கு வந்து செல்லும் வாகனங்கள் MONOR rourososarium. சாலையில் AUTO I ملايولية 9 बाबा CHOOLINU. **ெ**ச்சீன் ഖെ ക്കും വർകൾ நுழைவுப் பகுதியாகவும், தெற்குப் LISTABLE வெளிவால் புகுதியாகவும் தீர்மானிக்கப்பட்டு கட்டிடங்கள் அமைய ඉණිහැනු. தெனால் மேற்படி இடத்தில் போக்குவரத்திற்கு இடையுறுகள் ஏதும் SIDLL ഖന്ന്പ്പ്പുക്ക് இல்லை ഒത ഖീക്നുതെത്തിൽ കെന്ന് ഖന്യക്<u>നമ</u>്വ.

4) minesernin **ALLED ENSONET** amento பாகையாக குமார் 5 ക്കാവ്പിക്ക് കുറുകളാളൂർ, മുന്നുവള (C) LIO (A)IIIDE **MUNITED** மீட்டர் क्रिक्युं क LIBOTED தவ்ளியம் ල් වේ **DIMITO ELICONT** POTH DO கற்றுச்சவர்கள் அமைக்கப்பட்டு இறுபடி கட்டிடங்களுக்கு வந்து செல்லும்

#### DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE.

From Dr. K. Vanaja, M.B.B.S., D.P.H. Deputy Director of Health Services Saidapettai – 600 0015.

To The Commissioner Panchayat Union, Thiruporur.

#### K.DIS. NO. 2085/S2/2007 Dated 28.05.2007

Sub: Public Heath - No objection certificate and blue print approval to construct the proposed Mall/Multiplex Hotel building at S. No.13/1, Egattur Village, Thirupour Block, Kancheepuram District by Allied Majestic Promoters - Regarding.

Ref: 1. Your letter R.No.A3/705/2007 dated 14.05.2007.

 Inspection report dated 26.5.2007 of the Block Health Supervisor, Kelambakkam Primary Health centre.

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No objection certificate and blue print approval is issued to M/s. Allied Majestic Promoters for the construction of Mall/ Multiplex Hotel building (Ground + Nine Storeyed with 9000 HP for Domestic Purpose only) at S. No.13/1 Egattur Village, Thiruporur Block, Kancheepruam District subject to the conditions that.

- The building should be constructed as per plan only.
- > Enough spaces for parking places and maintain environmental should be provided as per the building rules.
- Construction (Buildings) should be enough spaces, ventilation, exhausted facilities, Aeration and lighting as per building rules.
- Before construction the permission should be obtained from CMDA / MLPA / DTCP.
- The full scale sewage treatment plant should be provided and the sewage effluent should be properly treated / recycling and disposed off in the own land for green belt or other use.
- Sufficient number of toilets/ baths should be provided according the strength of the consumers.
- > There should not be emanation of objectionable odour in the vicinity.
- > Solid waste should be disposed off properly.
- Should be ensured that the water used for cooling purpose be kept under closed circuit system.

- All arrangements should be made to avoid nuisance.
- > DG sets installed during the construction activities must be provided with necessary acoustic measures and exhaust pipe above the height of nearest tall building.
- > Bore well proposed to be dug must be done with property permission from the concerned authorities. Periodical monitoring of drinking water should be carried out as per BIS 10500/1991 in a reputed laboratory.
- Child labour must not be appointed for construction or any other work.
- Safe equipments like boots, safety belts, Gloves must be provided for the work and safe engineering practices must be adopted.
- Necessary first aid facilities should be made available for the workers till the construction is over and after occupation.
- The premises must be maintained free from mosquito breading at all time.
- During the construction, sufficient basic amenities should be provided to the construction workers.
- > Construction vehicle must not be parked in the road side and must be parked in the site area only.
- Rainwater harvesting facilities should be provided.
- The building should be occupied without obtaining the certificate under section 26, 33 and 38 of the Tamil Nadu Public Heath Act 1939. (Tamil Nadu Act III/1939) and after obtaining the certificate the completion certificate should be issued.
- > If violated any one of the above conditions the permission issued will be canceled.

DEPUTY DIRECTOR OF HEALTH SERVICES.

SAIDAPETTAI.

Enclosure Approved Blue prints.

Copy To

Ms Allied Majestic Promoters Egather village. Thimporus Block

# GOVERNMENT OF INDIA Ministry of Environment, Forests and Climate Change (Regional Office, Chennai) MONITORING REPORT

### PART I

### DATA SHEET

1	Riv	oject Type : er valley/Mining/Industry/Thermal/	Others - Building	
2	-	clear/Other Specify me of the project	Construction of a shop "Marina Grand Mall village, Old Ma Kanchipuram dist by Promoters (P) Ltd.	" at 13/1A, Egatur habalipuram road,
3	Cle	earance letter(s)/OM No. and dated	EC Letter No 21 – 56: dated 01.10.2008	2/2007 – IA.III - MoEF
4	Lo	cations	S.F. No. 13/1A, Egattur Taluk, Kancheepuram	Village, Tiruporur District - 603103
	а	District (s)	Kanchipuram	
	Ь	State (s)	Tamil Nadu	
	C	Latitudes	12°50' 9.12" N	
	d	Longitudes	80° 13′ 46.13″ E	
5	100000	dress of correspondence		
	a	Address of concerned project Head (with Pin Code & telephone/telex/fax numbers	Shri Shajahan, 13/ Tiruporur Taluk, Kan 603103, Ph - 9486752	1A, Egattur Village, cheepuram District – 847
6	Sa	lient features		Tn . W
	a	of the project	Item	Details Proposed "The Marina
			Project Name	Proposed The Marma
			Location	13/1A
			Total Plot Area	25131.08 sq .m
			Built up area	110673 sq. m.
			OSR	2513.09 Sq.m
			Ground coverage	9939.3 sq.m
			Road & pavements	1911.27 Sq.m
			Green Belt	10763.37 Sq.m (42.8
				%) Two Blocks with
			Number of Blocks/floors	combined basement Mall + Hotel and Serviced Apartment 3 Basement + G + 9Floors
			Building Height	45 m
			Road Width	Approach road 40 m
			- 27 Metronicolous S. S.	OMR
	b	of the environmental management plans	Air, water, noise management has to b	
7	B	reakup of the project area		
25	а	s		Nil
	b			
		reak up of project affected population with		

		enumeration of those losing houses/dwelling	Nil
		units only, agricultural land only, both dwelling units and agricultural land and landless	
		abourers/artisans	i
		a SC,ST/Adivasis	
	-	O Others	Nil
9	-	Financial Details	Nil
35	-		
		Project cost as originally planned and subsequent revised estimates and the years of price reference	Rs.160 Cr for the financial years 2008 – 2009 and 2009 - 2010  2. Revised Estimate as per revised plan – a.For the financial year 2010 – 2011 – Rs.135 Cr  b.For the financial year 2011 – 2012-Rs. 142 Cr  c.For the financial year 2012 – 2013-Rs.146 Cr  d.For the financial year 2013 – 2014-Rs.149 Cr
	b	Allocations made for environmental	e.For the financial year 2014 – 2015-Rs. 151 Cr
	1	ioi chimiental	Rs. 1243 lakh (Capital)
		management plans, with item wise and year wise breakup	Rs. 61.5 lakh (Operational)
	C	Benefit cost ratio/internal rate of return	977
		and the years of assessment	
	d	Whether (c) includes the cost of environmental management as shown in (b) above	8777
	e	Total expenditure on the Project so far	De OF C
	f	Actual expenditure incurred on the	Rs. 95 Cr
		environmental management plans so far	8 <del>4-</del>
)	Fo	rest land requirement	
	а	The status of approval for a diversion of	
		forest land for non-forestry use	Nil
	b	The status of compensatory afforestation, if	Nel
		any , , , , , , , , , , , , , , , , , , ,	Nil
	C	The status of clear felling	NII
	d	Comments on the viability and	Nil Nil
1		sustainability of compensatory afforestation programme in the light of actual field experience so far	NII
	(suc	e status of clear felling in non-forest area ch as submergence area of reservoir, croach road), if , with quantitative information	Nil
	Stat	rus of construction	
	_	Date of commencement	arth
		Date of completion (actual and/or planned)	15 <sup>th</sup> November, 2010
	Rea	sons for the delay if the project is yet to	January 2016.
	star	t.	737/2
	Date	e of site visit	
	a T	he dates on which the project was	

	monitored by the Regional Office on previous occasions, if any	
 b	- are visit for this monitoring report	22.11.2014
au inf	the tails of correspondence with project thorities for obtaining action plans, formation and status of compliance to feguards	

The project construction work was started on 15<sup>th</sup> November 2010 and the basement, ground floor and first floor works have been completed, in second and third floor construction activities are at various stages. They are planning to complete the work by October 2015.

EC was accorded for construction of Shopping Mall cum Hotel (retail shops, theatres-1800 seats multiplex, restaurants and 270 rooms hotel) having an area of 1,30,803.23 Sq.m(2 basements + ground + 9 floors). Whereas the project authorities have changed the scope of construction by reducing an area to 1,10,673 Sq.m without approval. The changes are as given in the table

Sl.No	As per EC	Proposed Changes
1	2 Basement + Ground + 9 Floors	3 Basement + Ground + 11 Floors
2	Retail Shops	Retail Shops
3	Multiplex theater(1800 Seats)	Multiplex theater(1800 Seats)
4	Restaurants	Restaurants
5	Multilevel Car parking (2 Basement + Lower ground + 8 Floors)	No multilevel car parking, Instead Hotel apartment proposed.

The project authorities have submitted an application to SEIIA on 02.05.2014 to obtain EC for the changes. SEIIA directed the project authorities to obtain certified copy of the compliance report from the regional of the MoEF&CC. Accordingly the project authorities have requested a copy of the compliance report. In general the project authorities are implementing all the conditions except change in scope. This is for your kind information and necessary action please.

(DR.C.KALIYAPERUMAL) Director (S)

#### PART- II

Subject: Construction of a shopping mall cump hotel "Marina Grand Mall" at 13/1A, Egatur village, Old Mahabalipuram road, Kanchipuram dist by M/s.Allied Majestic Promoters (P) Ltd.

Reference : EC No. 21 – 562/2007 – IA.III - dated 01.10. 2008

## Part A- Specific Conditions

## I. Construction Phase

S.No	Condition	Compliance
i.	"Consent for Establishment" to be obtained and submitted	Not Complied
ii.	All required sanitary and hygienic measures should be in place	
iii.	A first of the same of the sam	Complied
7,555,557	A first aid room be provided	Complied
iv.	Drinking water and sanitary facilities be provided.	Complied
٧.	Provision be made in water treatment plant	Complied
vi.	All the top soil excavated be stored	80, 6,52,5,
vii.	Disposal of muck should not create any adverse effect	Complied
viii.	Soil and ground water samples be tested	Complied
ix.	Bituminous and other hazardous materials should not be used	Complied
X.	Hazardous waste be disposed as per rule	Complied
xi.	DG set be low sulphur diesel type	Complied
xii.	Diesel shall be stored in under ground	Complied
xiii.	Vehicles be in good condition	Complied
xiv.	Ambient air and noise level should be controlled, monitored	Complied
xv.	Fly ash be used.	Complied
xvi.	Ready mixed concrete be used	Complied
xvii.	Storm water control arrangement	Complied
viii.	Water demand he reduced by a death	Agreed to Comple
xix.	Water demand be reduced by adopting best practices Permission to draw ground water be obtained	Complied
XX.	Separation of grey and black water	Refer Part III
xxi.	Fixtures of low type	Complied
cxii.		Agreed to Comply
xiii.	Use of glass may be reduced upto 40% Roof should meet ECBC	Refer Part - iii
xiv.	Opaque wall as per ECBC	Agreed to Comply
XV.	All approvals of some about a state of some a state of some a state of some about a state of some about a state of some a	Agreed to Comply
κνi.	All approvals of competent authority Regular supervision be done	Agreed to Comply
vii.	Legal action he initiated if work at a 1	Complied
P-C-88	Legal action be initiated if work started without EC	Refer Part - iii

# II. Operational phase

Not applicable since the construction is not yet complete

## Part-B General Conditions

S.No	Condition	
i.		Compliance
	Environmental safeguards be implemented.	Complied
ii.	Fuel be supplied to laborers	
iii.	Six monthly monitoring reports	Complied
	Town montany monitoring reports	Complied

S.No	Condition	Compliance
iv.	A complete set of documents be submitted to RO	Complied
V.	In the case of any change, fresh appraisal is required	Refer Part - iii
vi.	Ministry reserve the right to add additional safeguard.	Agreed to Comply
vii.	All other statutory clearances be obtained	Complied
viii.	Stipulations would be enforced among other provisions	Agreed to Comply
ix.	EC is subject to final order of the WP. No. 460 of 2004	Agreed to Comply
x.	Any appeal	Agreed to Comply

(DR.C.KALIYAPERUMAL)
Director(S)

#### Part - III

Subject: Construction of a shopping mall cump hotel "Marina Grand Mall" at 13/1A, Egatur village, Old Mahabalipuram road, Kanchipuram dist by M/s.Allied Majestic Promoters (P) Ltd.

Reference: EC No. 21 - 562/2007 - IA.III - dated 01.10. 2008

### Part A- Specific Conditions

## I. Construction Phase

S.No	Conditions	Status of Compliance
1.	"Consent for Establishment" shall be obtained from the Tamil Nadu pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any Construction work at the site.	Consent for Establishment has not been obtained from TNPCB
2.	All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.	Sanitary facilities and hygienic measures are provided and are maintained.
3.	A first aid room shall be provided in the project site during the construction phase of the project.	A first aid room has been provided at site with trained personnel.
4.	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of wastewater and solid waste generated during the construction phase should be ensured	Adequate drinking water facilities such as potable RO System & sanitation facilities such as toilets, wash rooms & temporary septic tanks are provided.
5.	Provision shall be made in the water treatment plant for attaining bacteriological quality by chlorination before supply of water for domestic use.	Water is purchased from outside. The water is stored & disinfected. Drinking water is supplied through potable RO system.
6.	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within	Top soil excavated is stacked separately within the project site and will be used for horticulture/

S.No	Conditions	Status of Compliance
	the project site.	landscape development.
7.	Disposal of muck 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 the people, only in approved sites with the approval of competent authority.	Since it is construction project not hazardous muck was generated Excavated earth was used for backfilling within the site. Transport trucks were covered with tarpaulic
8.	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy materials and other toxic contaminants.	Soil & ground water quality is monitored periodically by NAR
9.	Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate water courses and the dump site for such materials must be accrued so that they should not leach into the ground water.	No bitumen or other hazardous materials were used.
10.	Any Hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the TNPCB.	Spent oil from DG and other equipments is stored in HDPE drums and proposed to be sold to vendors authorized by TNPCB.
11.	The DG sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	DG set of 1 X 207.5 kVA is used during construction phase. The diesel generator set used are of low sulphur diesel type and are conforming to E (P) Rules prescribed for air and noise emission standards as informed.
12.	The diesel required for operating DG sets shall be stored in underground tanks and if required clearance from Chief Controller of Explosives shall be taken	For operating the above DG Sets approximately 75 liters of diesel /day is required. Diesel requirement is met from nearby bunks on daily basis & no need for storage of diesel within the site. Hence clearance from Chief controller of explosives is not required
	Vehicles hired for bringing constructional materials to the site should be in good condition and should conform to air and noise emission standards prescribed by the TNPCB/CPCB. The vehicles should be operated only during non-peak hours	Vehicles are hired for bringing constructional materials to the site which is in good condition and are conformed to the emission standards. There are only four vehicles moving in and out of the premises for bringing construction materials to the site. The vehicles are operated during non-peak hours as informed.
	Ambient noise level should conform to residential standards both during day and night. Incremental pollution loads on the	The ambient air quality level is controlled by water spraying and also monitored. The noise level also

S.No	Conditions	Status of Compliance
蒋	ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air & noise level during construction phase, so as to conform to the stipulated standards by CPCB/ TNPCB.	has been monitored during day and night time. As per the reports the levels are within the limits.
15.	Fly ash should be used as building material in the construction as per the provision of fly ash notification of September, 1999 and amended as on 27 <sup>th</sup> August 2003. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations).	Fly ash bricks are used for construction.
16.	Ready mixed concrete must be used in building construction.	Ready mixed concrete is used for building construction.
17.	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Constructions are going on and agreed to make the facilities.
18.	reduced by use of pre – mixed concrete, curing agents and other best practices referred.	reduce the water demand.
19.	Permission to draw Ground Water shall be obtained from the competent Authority prior to construction/operation of the project.	10-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12-11-12
20.	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	construction for separation of grey and black water.
21.	Fixtures for showers, toilet flushing and drinking should be of low flow type by adopting the use of aerators/ pressure reducing devices or sensor based control.	
22.		used as a wall material and where as high quality double glass with self reflective coating glass will be used in windows.
23.	Roof should meet perspective requirement as per energy conservation building code by using appropriate thermal insulation material to fulfill requirement.	Roof of U Value 0.39 W/m²-k has been proposed. The specification are as follows:- Roof finish + 75 mm expanded polystyrene +150-mm concrete slat + Internal plaster (as per ECBI norms). Further informed that suitable materials will be used for rooftop thermal insulation to meet the standards prescribed in the Energy Conservation Building Code for AC buildings.
24	Opaque wall should meet prescriptive requirement as per Energy Conservation	(1) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1

S.No	Conditions	Status of Compliance
	Building Code by using appropriate thermal insulation material to fulfill requirement.	meet the requirements of Energy Conservation Building Code. Further informed that the following measures will be adopted for thermal insulation. Insulation with low U-value will be used. Insulation with high R-value will be used. Light colored coating with high reflectance will be used.
25.	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments etc as per National building code including protection measures from lightning etc.	The proponent informed that the structural safety of the buildings due to earthquake, adequacy of fire fighting equipments etc will be obtained after the construction is completed.
26.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Separate EHS cell monitors the compliance to conditions stipulated in the EC. Environmental monitoring is carried out regularly in site at the required intervals so as to ensure that the pollutants do not exceed the prescribed limits.
27.	Under the provision of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that the construction of the project has been started without obtaining environmental clearance.	Construction of the building was

# Operational phase:

Not applicable since the construction is not yet completed.

# Part B- General Conditions

S.No	Conditions	Status of Compliance
1.	The environmental safeguards contained in the EIA report should be implemented in letter and spirit.	The environmental safeguards
2.	Provision should be made for supply of kerosene or cooking gas and pressure cookers to the labourers during construction phase.	Provisions are made for supply of kerosene and cooking gas as well as pressure cookers to the labourers
3.	Six monthly monitoring reports should be	The Half Yearly Compliance report in

S.No	Conditions		Status of Com		
	submitted to the ministry and its Regional Office, Bangalore.				
4.	Officials from the Regional Office of MoEF, Bangalore who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional Office of MoEF, Bangalore.				
5.	In case, there is any change(s) in the scope of the project, the project could require a fresh appraisal by this a Ministry.		Due to changes in the scope of the project fresh application is being submitted to SEIAA for appraisal.		
	appraisar by this a termistry.	Sl.No		Proposed Changes	
		1	2 Basement + Ground + 9 Floors	3 Basement +Ground + 11Floors	
	)  28	2	Retail Shops	Retail Shops	
		3	Multiplex theater(1800 Seats)	Multiplex theater(1800 Seats)	
		4	Restaurants	Restaurants	
		5	Multilevel Car parking (2 Basement + Lower ground + 8 Floors)	Instead hotel apartment has	
6.	The Ministry reserves the right to additional safeguard measures subsequently, if find necessary, and to take action including revoking of the environment clearance under the provisions of Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Agreed upon.			
7.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980, Wildlife Protection Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	approvals. Airport Authority of India. DTCP approved letter for site plan. NOC from Police			

S.No	Conditions	Chahun - C.O.			
	71	Status of Compliance Urbanisable Zone – Land Certificate.			
8.	These stipulations would be enforced among others under the provision of Water (Prevention & Control of Pollution), Act, 1974, the Air (Prevention & Control of Pollution), Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA notification 2006.	Agreed upon.			
.9.	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Agreed upon.			
10.	Any application shall lie with:	Agreed upon			

(DR.C.KALIYAPERUMAL)
Director (S)