

# KUMAR KERING PROPERTIES PVT. LTD.

Correspondence Address: "Kumar Capital" 1" Floor, 2413, East Street, Camp, Pune - 411 001. Tel.:26350660, 3052 8888, Fax: 26353365

Date: March 28, 2014

To,

The Environment Secretary,

Room No. 217, 2nd Floor, Environment Department,

Govt. of Maharashtra Mantralaya,

Mumbai- 400 032

Sub: Post EC Monitoring report for Proposed Residential group Housing Scheme located at Survey No, 12/1/2,12/1/3, 12/1/4, 12/2, 12/3A, 12/3B, 12/4, 12/5A/1, 12/5B, 12/6/1, 12/7, 12/8, 12/12/1, 12/12/3, 13/1/2/1, Village Undri, Ta, Haveli, Pune, Maharashtra by M/s. Kumar Kering Properties Pvt. Ltd.

Ref: Environmental Clearance No. SEAC-2010/CR.776/TC.2 Dated: 25th July, 2013

Dear Sir,

This is in reference to the requirement stated in the Environmental Clearance No. SEAC-2010/CR.776/TC.2Dated: 25<sup>th</sup> July, 2013 for our above mentioned Proposed Residential group Housing Scheme located at Survey No. 12/1/2,12/1/3, 12/1/4, 12/2, 12/3A, 12/3B, 12/4, 12/5A/1, 12/5B, 12/6/1, 12/7, 12/8, 12/12/1, 12/12/3, 13/1/2/1, Village Undri, Ta, Haveli, Pune, Maharashtra by M/s. Kumar Kering Properties Pvt. Ltd.

In accordance to your requirement please find enclosed herewith following documents for Post EC for the subject project for your kind reference.

- 1. Data sheet (July'13 December'13)
- 2. Environment Clearance Letter
- 3. Compliance Report
- 4. Post EC Environment Monitoring Report (July'13 September'13)
- 5. Post EC Environment Monitoring Report (October'13 December'13)
- 6. Annexure I Project Details & Annexure II -EMP Cost
- 7. Copy of Newspaper Advertisement (English & Local Language).
- 8. Project Status Report
- 9. Ack. of CTE Applied

Hope you will find the above in line with your requirement.

वायक लिपिक व्यक्तिएक विभार रक्तास्थ्य, संपर्द-22

Thanking you,

Yours faithfully.

For, M/s. Kumar Kering Properties Pvt. Ltd

Copy to:

 To, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022, India

2. Shri B. R. Naidu, Senior Environmental Engineer & Incharge, Parivesh Bhawan opp., VMC ward Office No. 10, Subhanpura, Vadodara-390 023.

3. The CCF, Regional Office, Western Region, "Kendriya Paryavaran Bhavan" Link Road No. 3, Raishankar Nagar, Bhopal- 462 016. (M. P.).



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· Palm spring



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केन्द्रीय प्रदूषण नियंत्रण बोर्ड (पर्णावरण एवं दन मंत्रालय, भारत खुमानपुरा, वडीवरा - ३९० ०२३

### **COMPLIANCE REPORT**

EC No.	:	SEAC-2010/CR.776/TC.2 Dated: 25th July, 2013			
Project name	:	Residential Group Housing Project			
<b>Project location</b>	:	S No: 12/1/2,12/1/3, 12/1/4, 12/2, 12/3A, 12/3B, 12/4, 12/5A/1,			
		12/5B, 12/6/1, 12/7, 12/8, 12/12/1, 12/12/3, 13/1/2/1, Village Undri,			
		Ta, Haveli, Pune, Maharashtra			
Developer name	:	M/s. Kumar Kering Properties Pvt. Ltd.			
Developers	:	1st Floor, 2413, east Street Camp, Pune 411001. Maharashtra			
address					

Sr. No.		<b>Compliance Status</b>			
1	This has reference to the above mentioned EIA Notification - 20 Maharashtra in its 6 for prior environment you has been confused Assessment Authority	No comment.			
2	Residential Group H Pune. SEAC consider per EIA Notification	ous red 200	sal is for grant of Environmenting Scheme at village Undri To the project under screening cap. (a) the Project is summarized as In Residential Group Housing Formula M/s. Kumar Kering Properties S No: 12/1/2,12/1/3, 12/1/4, 12/3B, 12/4, 12/5A/1, 12/5B	Noted.	
	Type of Project Total Plot Area Deductions Net Plot Area Net Permissible FSI	:	12/8, 12/12/1, 12/12/3, 13/1/ Undri, Ta, Haveli, Pune, Ma Group Housing Project 78600.00 m <sup>2</sup> 25405.25 m <sup>2</sup> 53194.75 m <sup>2</sup> 71124.51 m <sup>2</sup>		
	Proposed Built up area (FSI & Non FSI)  Estimated cost of	•	FSI area (m²) Non FSI (m²) Total BUA area (m²) Rs. 113.79 Cr. (Approx.)	68452.50 m <sup>2</sup> 22715.66 m <sup>2</sup> 91168.16 m <sup>2</sup>	

the project	
the project Ground-coverage Percentage (%)	42 %
No. of Buildings and its configuration	: Residential:- Total Nos. of Building= 9 &44 Bungalows. Nos. of Tenements: 440 Buildings A1 to A8: P + 12 Floors BunglowsB1 (6 Nos.), B2(6Nos.), B3(6 Nos.), B4(6 Nos.), C1 (5Nos.), C2 (5 Nos.), C3 (5 Nos.), D1 (2Nos.) & D2 (3 Nos.): G+1 Building E: P + 10
No. of tenant and shops	Total No. of Tenants: 440 nos.
No. of expected residents/users	2200 persons
Tenant density per hectare	58 Tenants per hectare
Height of the building	36 m
Right of way	24 m wide RP road adjacent to the site
Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12 m

otal Water :	Dry seasons:	
	· · · · · · · · · · · · · · · · · · ·	
equirement	Source: Gram Panchayat	
	Fresh Water: 205 m <sup>3</sup> /day	
	Recycled water (Flushing): 103 m <sup>3</sup> /day	
	Recycled water (Gardening): 94 m <sup>3</sup> /day	
	Total Water Requirement : 402 m <sup>3</sup> /day	
	Fire Fighting (Underground	
	water tank): 300 m <sup>3</sup> /day	
	Water Tank): 10 m <sup>3</sup>	
	Excess treated water: 66 m <sup>3</sup> /day	
	Wet season:	
	Source: Gram Panchayat	
	Fresh water: 205 m <sup>3</sup> /day	
	Recycled water (flushing): 103 m <sup>3</sup> /day	
	Total Water Requirement : 308 m <sup>3</sup> /day	
	Fire Fighting(underground	
	Water tank): 300 m <sup>3</sup> /day	
	Fire Fighting (Overhead	
	Water Tank): 10 m <sup>3</sup>	
	Excess treated water: 161 m <sup>3</sup> /day	
ain water	Level of the ground table: 3 m	
arvesting	Size, no of recharge pits and Quantity:	
RWH)	- · ·	
·	No. of recharge Pit Proposed = 10 Nos.	
	Budgetary allocation (Capital cost and O&M	
	cost):	
	Capital cost: 22 Lakhs	
	O&M cost: 0.25 Lakhs	
torm Water:	Quantity of storm water :	
rainage	Size of SWD: storm water drain of .045 m	
-	width & 0.2m @ slope 1:200 will be provided	
	along the road in project area.	
ewage and	Sewage generation: 277 m <sup>3</sup> /day	
aste water	,	
	Location of the STP : Ground	
	DG sets (During emergency): 1x 125 KVA	
	2x 250 KVA	
	2X 500 KVA	
	Budgetary allocation (Capital cost and O&M	
	cost):	
	Capital cost :Rs. 100 Lakhs	
	O&M cost)per annum: Rs. 10 Lakhs	
olid waste :		
	_	
	=	
	-	
torm Water : brainage and raste water	Fire Fighting (Overhead Water Tank): 10 m³ Excess treated water: 66 m³/day Wet season: Source: Gram Panchayat Fresh water: 205 m³/day Recycled water (flushing): 103 m³/day Total Water Requirement: 308 m³/day Fire Fighting(underground Water tank): 300 m³/day Fire Fighting (Overhead Water Tank): 10 m³ Excess treated water: 161 m³/day  Level of the ground table: 3 m Size, no of recharge pits and Quantity: Size of recharge pits = 3 m x 3 m x 3 m No. of recharge Pit Proposed = 10 Nos. Budgetary allocation (Capital cost and O&M cost): Capital cost: 22 Lakhs O&M cost: 0.25 Lakhs Quantity of storm water: Size of SWD: storm water drain of .045 m width & 0.2m @ slope 1:200 will be provided along the road in project area.  Sewage generation: 277 m³/day STP Technology: SBR Capacity of the STP: 300 m³/day Location of the STP: Ground DG sets (During emergency): 1x 125 KVA 2x 250 KVA 2x 250 KVA 2X 500 KVA Budgetary allocation (Capital cost and O&M cost): Capital cost: Rs. 100 Lakhs	

broken bricks will be utilized in low land leveling, secondary concrete, below roads some quantity of excavation soil will be use for backfilling and remaining will be hand over to authorize vendor.

Waste generation in the operation phase:

Dry waste : 410 kg/day Wet waste : 616 kg/day E-waste : very less amount

Hazardous waste: spent oil or oil grease for

DG sets paints etc.

STP Sludge (Dry Sludge): 33 Kg/day

Mode of Disposal of waste:

Dry waste: Handed over to authorized recycler for further handling and Disposal Wet Waste: will be converted to compost using organic waste processor [OWP] model no. EPL 1000

E-waste: handed over to authorize vendor Hazardous waste: handed over to authorize vendor

STP sludge (Dry sludge): will be used as manure for gardening

Area requirement:

1. Location(s): on Ground

2. Total area provided for the storage & Treatment of the solid waste : For EPL  $1000 = 100 \text{ m}^2$ 

3. Budgetary allocation (Capital cost and

O&M cost):

Capital cost: 10 Lakhs O&M cost: 2 Lakhs/ annum

### **Green Belt Development:**

Total RG area:

1. RG area under greenbelt:

RG on the ground:  $8690.57 \text{ m}^2$ RG on the podium:  $7023.94 \text{ m}^2$ 

Plantation:

Trees to be planted on the Ground: 738 Nos. & Shrubs 21 Nos.

Trees to be planted on podium: 25 Nos. Shrubs to be planted on podium: 21 Nos.

Budgetary allocation (Capital cost and O&M cost):

Capital cost: 50 Lakhs

O&M cost: 5 Lakhs / annum

#### **Energy**

Power supply:

Sr. No.	Power Requirement			
1	Source of power supply: MSEB			
2	During Construction Phase a) Demand Load	63 KVA		
3	During Operation Phase, a) Demand load b) Connected Load	6500 KVA 11500 KVA		
4	DG set as Power Back-up during operation phase	1x 125 KVA 2x 250 KVA 2X 500 KVA		
5	Fuel load	Diesel		

#### **Energy saving measures**

- All fluorescent lights/LED with electronic ballast in place of copper chokes & tube- T5 type, in place of T8 type, to reduce the power consumption by 12 watts per lamp & increase in lumens by 14%. Further reduction by use of sensors (Power saving 1,63,146 KWH/year). r/l= 7760x0.8x6hr/dayx365d/yrx12 watts
- Hot water requirement for low rise, will be met by solar water heating system (Power saving 1256661.00 KWH/ year).
- All building/ areas will be equipped with Capacitors Banks, with heavy duty compact gas filled capacitors with harmonic filters to maintain THD's less than 10 % with auto power factor correction panels to be connected with LT panels at load end. This is to reduce the power losses caused by low power factor & harmonic distortions of power wave form.
- Electrical distribution system will be monitored regularly and energy consumption will have check meter, so that any energy loss will be detected and will be rectified immediately.
- Insulated roof to reduce heat gain.
- Common light load requirement in high rise building/street lighting will be met by use of solar if feasible. Energy will be saved 50,000 KWH/year.

### Detail calculation and % of saving

Sr. No.	Energy Conservation Measures	Saving %
1	Lighting fixtures With CFL & T5 with Electronic Ballast +Power	20 % on entire lighting load
2	Lighting Control system on BMS &Sensors	10% street and common light
3	Solar water heating/lighting	20%
4	Solar	Common lighting & small power

Budgetary allocation (Capital cost and O&M cost)

Capital cost: Rs. 83.63 Lakhs O&M Cost: Rs. 1.5Lakhs/ Annum

#### DG Set:

• Number and capacity of DG sets to be used: During construction Phase: 1 Nos. X 80 KVA

During operational Phase: Residential:- 1X 125 KVA

2x 250 KVA 3 x 500 KVA

• Type of fuel used: Diesel

Traffic Management

Traffic Management					
Buildings	Wing	Number of tenements	Parking required 20+3+1.4 m <sup>2</sup> /tenemen ts	Parking provided m <sup>2</sup>	
P+12	A1	47	1147		
P+12	A2	47	1147	Parking-	
P+12	A3	47	1147	$4940 \text{ m}^2 +$	
P+12	A4	47	1147	Podium	
P+12	A5	47	1147	parking-	
P+12	A6	47	1147	10760	
P+12	A7	47	1147	$m^2 = 15700$	
P+12	A8	47	1147		
G+1	B1	6	146	146	
G+1	B2	5	122	122	
G+1	В3	5	122	122	
G+1	B4	6	146	146	
G+1	C1	5	122	122	
G+1	C2	6	146	146	
G+1	C3	6	146	146	

G+1	D1	2	49	49
G+1	D2	3	73	73
P+10	Е	20	488	488
Total		440	10736	17262

Width of all internal roads(m): 7.5 m, 9m & 12 m Wide Environmental Management Plan Budgetary allocation: During construction Phase :

Sr. No.	Parameter Total cost in La	
1	Water and dust Suppression	0.7
2	Site Sanitation & Safety	1.5
3	Environmental Monitoring	2.4
4	Disinfection	1.4
5	Health Check up	1.5
6	Total Cost	7.5

During operation Phase:

During operati	on i nase.			
Sr. No.	Pollution control measures	Recurring Cost Per annum (Rs. Lakhs)	Capital Cost (Rs. Lakhs)	Corpus fund generation
1	Pollution control Measures- STP & Noise Control Measures	(Includes cost of power, operation & maintenanc e)	100 (Constructi on of STP)	Corpus generated
2	Environme nt Monitoring	5 (Monitorin g charges for air, water, waste water, Soil DG stack, noise etc.)	Nil	generated (in Rupees) at the rate Rs. 0.5/sq. ft will be collected from flat owner which will be handed over to
3	Solid Waste manageme nt	2 (includes cost of waste collection, storage and disposal)	10 (includes cost of waste collection, storage and disposal)	society

			1.5	83.63			
	5	Occupation al Health	2.5 (includes cost of medical checkup, PPE & first aid kit)	4 (includes cost of PPE & first aid facility)			
	6	Green belt developme nt	6 (includes cost of landscaping of plot area)	85 (includes landscaping of plot area)			
	7	Rain water Harvesting	.25	22			
	8	Other(EHS orientation & training)	3(Environ ment & safety training) 30.25	10 (Other equipments ) 314.63			
3.	The proposal he				262nd mostings	Noted	
	3. The proposal has been considered by SEIAA in its 52 <sup>nd</sup> &62 <sup>nd</sup> meetings & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification. 2006 subject to implementation of the following terms and conditions:					Noted	
(ii)	This environmental clearance is issued subject to land use verification local authority/planning authority should ensure this with request to Rules regulation Notifications, government Resolutions Circulars, etc. issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that state level Impact Assessment (SEIAA) approved the proposed land use.						
(iii)	7 11 1 1						
(iv)						Consent the Ack.	applied for to establish of the same as Annexure

()	A11	C 1' - 1
(v)	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Complied. Toilets are provided at site
(vi)	Project proponent shall ensure completion of STP, MSW disposal facility green belt development prior to occupation of the buildings. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Par-a 2. Prior certification from appropriate authority shall be obtained,	Noted and will be complied.
(vii)	Provision shall be made for the housing of construction labour within	Complied.
	the site with all necessary infrastructure and facilities such as fuel for cooking, Mobile toilets. mobile STP, safe drinking water, medical health care, crèche and first aid room etc.	Proper drinking water & toilet facility is provided at site.
(viii)	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should he made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should he ensured.	Complied. Proper drinking water & toilet facility is provided at site.
(ix)	The solid waste generated should be properly collected and segregated dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	Noted & will be complied
(x)	Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And no wet garbage will be disposed outside the premises. Local authority should ensure this.	
(xi)	Arrangement shall be made that waste water and storm water do not gel mixed.	Noted and Will be complied.
(xii)	All the top soil excavated during construction activities should be stored for Use in horticulture / landscape development within the projel site.	Noted. Top soil will be used for landscaping.
(xiii)	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Will be complied.
(xiv)	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Noted and will be complied.
(xv)	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 safely and health aspects of people, only in approved sites with the approval of competent authority.	Complied. Adequate measures are provided.
(Xvi)	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.	Complied. Env. Monitoring report is attached herewith.
(xvii)	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dumpsites for such material must be secured so that they should not leach into the ground water.	Complied. Adequate measures are provided.
(xviii)	Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	Noted.

(XiX)	The diesel generator sets to be used during construction phase should he low sulphur diesel type and should conform to Environments	Complied. DG sets are having
(XX)	(Protection) Rules prescribed (or air and noise emission standards.  The diesel required for operating DG sets shall be stored in underground	acoustic enclosure. Noted.
	tanks and it required, clearance from concern authority shall he taken.	
(Xxi)	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	Complied. Vehicles are checked for PUC certificate.
(Xxii)	operated only during non peak hours.  Ambient noise levels should conform to residential standards both	Complied.
(AXII)	during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should he made to reduce ambient air ad noise level during construction phase, so as to conform to he stipulated standards by CPCB/MPCB.	Env. Monitoring report is attached herewith.
(xxiii)	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 100Km of Thermal Power Stations).	Noted and will be complied.
(xxiv)	Ready mixed concrete must be used in building construction.	Complied
(xxv)	The approval of competent authority shall be obtained for structural safety of the building due to any possible earthquake, adequacy of fire fighting equipments etc. as per National Building Code including measures from lighting.	Noted
(xxvi)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Noted
(Xxvii	Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices referred.	Complied.
(xxviii	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	Complied. Env. Monitoring report is attached herewith.
(Xxix)	The installation of the Sewage Treatment Plant (STP) should be certified by all independent experts and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating From STP shall he recycle/refused to the maximum extent possible. Discharge of this unused treated affluent, if any should be discharge in the sewer line. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.	Will be complied
(Xxx)	Local body should ensure that no occupation certification is issued prior to operate on of STP/MSW site etc. with due permission of MPCB.	Noted.
(xxxi)	Permission to draw ground Water shall be obtained from the competent Authority prior to construction/operation of the project.	Noted.
(Xxxii	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.	Will be complied.
(Xxxiii	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.	Noted and will be complied.
(xxxiv	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality	Noted.

	double glass with special reflective coating in windows.	
(Xxxv)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Noted.
Xxxvi	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 by 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 maybe done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non conventional energy source as source of energy.	Complied.
xxxvii	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 consulation with Maharashtra Pollution Control Board.	Noted and will be complied.
Xxxvii i	Noise should be controlled by ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Noted.
Xxxix	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.	Noted.
XI	Opaque wall should meet prescriptive requirement as per energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	Noted.
Xli	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Noted and will be complied.
Xlii	Regular supervision of the above and other measures for monitoring should tie in place all through the construction phase, so as to avoid disturbance to the surroundings.	Complied. Site engineers supervise proper implementation of EHS safeguard at site.
Xliii	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.	Noted. EC letter is attached herewith.
Xliv	Six monthly monitoring reports should be submitted to the Department and MPCB.	Complied.
Xlv	A complete set of all the documents submitted to Department should be forwarded to the MPCB.	Noted
Xlvi	In the case of any change(S) in the scope of the project. The project would require a fresh appraisal by this Department.	Noted

Xlvii	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Noted.
Xlviii	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall he included is part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.	Complied EMP along with break up attached as Annexure-I
Xlix	The project management shall advertise at least in Two local newspapers widely, circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board anti may also be seen at Website at <a href="http://envis.maharastra.gov.in">http://envis.maharastra.gov.in</a>	Complied. Copy of advertisement is attached as herewith.
1	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soil copies to the MPCB & this department on 1 <sup>st</sup> June & 1 <sup>st</sup> December of each calendar year.	Complied.
li	A copy of the clearance letter shall be sent by proponent to rite concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations. If any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied.
lii	The proponent shall upload the Status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the came periodically. It shall simultaneously he sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a Convenient location near the main gate of the company in the public domain.	Noted and complied. The proponent shall upload the status of compliance of the stipulated
liii	The project proponent shall also submit six monthly reports on the status of compliance Of the stipulated EC conditions including results Of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF the respective Zonal Office of CPCB and the SPCB.	Noted and complied.
Iiv	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board a prescribed under the Environment (Protection) Rules. 1986, as amended subsequently shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Noted.
4	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this	Noted.

	clearance does not give immunity to the project proponent in the case				
	filed against him. If any or action initiated under EP Act.				
5	In case of submission of false document and non compliance of stipulated conditions. Authority/ Environment Department will revoke or suspend the Environmental Clearance without any intimation and initiate appropriate legal action under Environmental Protection Act. I 986,				
6	The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any ether administrative reason.	Noted			
7	<b>Validity of Environment Clearance:</b> The environmental clearance accorded shall be valid for a period of 5 years.	Noted.			
8	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	Noted and will be Complied.			
9	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act. 1974, the Air (Prevention and Control of Pollution) Act. 1981. The Environment (Protection) Act. 1986 and rules there under. Hazardous Wastes (Management and Handling) Rules. 1989 and its amendments, the public liability Insurance Act, 1991 and its amendments.	Noted.			
10	Any appeal against this environmental clearance shall lie with the National Green Tribunal, Van Vigyan bhawan, Sec-5 R.K Puram, New Delhi-110 022,if preferred within 30days as prescribed under section 35 o the National Green Tribunal Act 2010.	Noted.			

# POST ENVIRONMENT MONITORING REPORT

# For the Project

# "Residential Group Housing Project"

At Sr. No. 12/1/2, 12/1/3, 12/1/4, 12/2, 12/3A, 12/3B, 12/4, 12/5A/1, 12/5B, 12/6/1, 12/7, 12/8, 12/12/1, 12/12/3, 13/1/2/1,

Village Undri, Ta. Haveli, Pune, Maharashtra,

# Period: July, 2013 - September, 2013

### **Developer**

M/s. Kumar Kering Properties Pvt.Ltd.

Kumar Capital 1st Floor 2413, East Street, Camp,

Pune - 411001. Maharashtra

Prepared by



GREEN CIRCLE, INC.
Vadodara

# <u>CERTIFICATE</u>

This is to certify that the post environment monitoring of Residential of At Sr. No. 12/1/2, 12/1/3, 12/1/4, 12/2, 12/3A, 12/3B, 12/4,12/5A/1, 12/5B, 12/6/1, 12/7, 12/8, 12/12/1, 12/12/3, 13/1/2/1, Village Undri, Tal. Haveli, Pune, Maharashtra, Pune for M/s. Kumar Kering Properties Pvt.Ltd. has been carried out by M/s. Green Circle, Inc., Vadodara during the period of July, 2013–September, 2013.

The study reveals that there is no negative impact on the environment.

For: Green Circle, Inc.

Mr. Pradeep Joshi CEO & Group President

#### **INTRODUCTION:**

M/s. Kumar Kering Properties Pvt.Ltd. is the foremost and most preferred real estate developer in India. M/s. Kumar Kering Properties Pvt.Ltd. is proposing to construct "Residential Group Housing Project" at Plot S No: Sr. No. 12/1/2, 12/1/3, 12/1/4, 12/2, 12/3A, 12/3B, 12/4, 12/5A/1, 12/5B, 12/6/1, 12/7, 12/8, 12/12/1, 12/12/3, 13/1/2/1, Village Undri, Ta. Haveli, Pune, Maharashtra. The Proposed Project has received Environmental Clearance from Ministry of Environment & Forest under the provisions of EIA Notification dtd. 14th September, 2006, subject to compliance of the conditions as per letter No. SEAC-2010/CR.776/TC.2 Dated: 25th Julyl,2013 .As per the instruction in the EC letter, Periodic Environmental Monitoring has been carried out by Green Circle, Inc., Vadodara and submitting required report to concern division regularly.

#### **SCOPE OF WORK:**

It includes quarterly monitoring of:

- **A.** Ambient Air Quality.
- **B.** Stack Emission from DG Set, if any.
- **C.** Water & Sewage quality.
- **D.** Noise Level.
- E. Soil Quality

#### A. AMBIENT AIR MONITORING:

Ambient Air Quality Monitoring was carried out at two locations within the project site for 15 days @ 2 Samples/week. Eight hourly samples were collected and analyzed for SPM, RSPM, SO<sub>2</sub>, & NO<sub>x</sub> as per the standard methods mentioned in Table 1 & the results are summarized in Table 2.

Table No. 1: Standard Method of Analysis for Ambient Air Quality

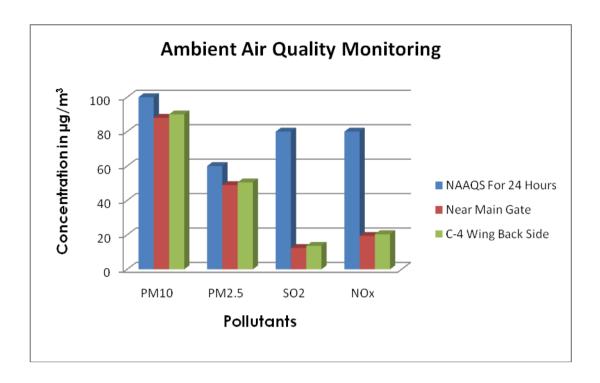
PM <sub>10</sub> / PM <sub>2.5</sub>	:	IS 5182 : Part 23 : 2006/ NAAQS Monitoring & Analysis Guidelines
		Volume- I by CPCB
$SO_2$	:	IS 5182 : Part 2 : 2001
NO <sub>X</sub>	:	IS 5182 : Part 6 : 1975

**Table No. 2: Ambient Air Quality** 

Sr.	Parameter	Units	Result			
No.						
Sampling locations			Near Club House	Near Main Gate	NAAQ S For 24 Hours	Methods Used
1.	Ambient Temperature	°C	30	29	-	
2.	Dry Bulb Temperature	°C	25	24	-	
3.	3. Wet Bulb Temperature		22	20	-	
4.	Relative Humidity	% RH	58	56	-	
5.	Particulate Matter (PM <sub>10</sub> )	$\mu g/m^3$	87.5	86.3	100	Gravimetric analysis
6.	Particulate Matter (PM <sub>2.5</sub> )	$\mu g/m^3$	49.5	46.7	60	Gravimetric analysis
7.	Sulfur dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	14.7	13.5	80	Improved West & Geake Method
8.	Oxides of Nitrogen (NOx)	μg/m <sup>3</sup>	21.0	19.5	80	Jacob & Hochheiser Modified Method

Note:

NAAQS: National Ambient Air Quality Standards



\*\*: 01 hourly value shall be complied with 98% of the time in a year. However, 2% of the time, it may exceed but not on two consecutive days.

#### **Observations:**

From above table and graph it can be observed that, PM10 level ranges from 88-90  $\mu g/m^3$ , PM2.5 ranges from 48-51  $\mu g/m^3$ , SO<sub>2</sub> ranges from 12-14  $\mu g/m^3$ , and NO<sub>X</sub> ranges from 19-21  $\mu g/m^3$ . The Observed results clearly indicate, all the parameters are well within the NAAQS limits.

#### **B. STACK MONITORING:**

Stack Monitoring was carried out for two installed DG sets within the project site. Samples were collected and analyzed for PM,  $SO_2$ , &  $NO_X$  as per the standard methods mentioned in Table 3 & the results also summarized in Table 3.

**Table 3: Stack Monitoring Result** 

Sr. No.	Parameters	Unit	Results	Reference method
			Near Water Treatment Plant	
1.	Material of Stack	-	MS	-
2.	Stack Height from G.L.	m	5	-
3.	Stack No.	-	01	-
4.	Stack Attached To	-	DG	-
5.	Capacity of stack	KVA	25	-
6.	Flue Gas Temperature	°K	335	-
7.	Velocity	m/s	2.98	-
8.	Particulate Matter (PM)	mg/Nm <sup>3</sup>	75.8	IS 11255: Part 1
9.	Sulphur dioxide (SO <sub>2</sub> )	ppm	2.24	IS 11255: Part 2
10.	Oxides of Nitrogen (NOx)	ppm	22.5	IS 11255: Part 7

#### C. WATER & SEWAGE QUALITY:

One water samples were collected from near by Bore well to check the quality of the water. Analysis results are compared with IS 10500:2012 as mentioned in following Table 4:

**Table 4: Quality of Water samples** 

Sr.	D	TT 24	Water sample	Desirable limit as per
No.	Parameters	Unit	Bore well Water	IS 10500-2012
1.	pН	-	6.98	6.5-8.5
2.	Temperature	$^{0}\mathrm{C}$	995	NS
3.	Turbidity	NTU	712	10
4.	Conductivity	μs/cm	22.5	NS
5.	Total Dissolved Solids	mg/L	<5	2000
6.	Total Suspended	mg/L	14	NS
0.	Solids	mg/L	14	113
7.	Total Hardness	mg/L	87	600
0	Ca Hardness	mg/L	631	NS
9.	Total Alkalinity	mg/L	112	600
10.	Chloride	mg/L	108	1000
11.	Sulphate	mg/L	79	400
12.	Copper	mg/L	BDL	1.5
13.	Zinc	mg/L	BDL	15

#### Note:

BDL = Below Detectable Limit

N.S. = Not Specified

#### **Observations:**

The quality of bore well water shows that there is no water contamination and it is suitable for construction purpose.

Sewage: Construction of STP is not yet started

#### D. NOISE LEVEL MEASUREMENT:

Noise level monitoring was carried out at five locations within the project site as per standard method by using sound level meter and the results are reported in Table 5.

**Table 5: Ambient Noise Quality** 

G.		Noise Level in dB (A) Leq. during					
Sr. No.	Sampling locations	Day T	ime	Night Time			
110.		Measured	Limit*	Measured	Limit*		
1.	Near Main Gate	55.4	55	44.1	45		
2.	Nr. Club House	53.8	55	43.5	45		
3.	Bang low No10	53.6	55	43.8	45		
4.	Bang low No26	53.8	55	42.9	45		
5.	Bang low No 35	52.4	55	44.1	45		

#### Note:

Day time is reckoned between 6 A.M. to 10 P.M. & Night time between 10 P.M. to 6 A.M.

#### **Observations:**

The noise level at site is well within the prescribed limit. However, it is marginally higher at main gate due to vehicular movement.

#### **ANALYSIS RESULTS of D.G sets Noise Quality**

			Observed Value in dB(A)		
Sr. No.	<b>Location Name</b>	Date of Measurement	Results	CPCB Permissible Limit	
1	Near DG –I (25 KVA)	24/08/2013	70.3	75	

**REMARKS:** As per Observation, results are within the limit

<sup>\*</sup> Ambient Noise level Limit for Residential area as per Noise Pollution (Regulation & Control) Rules, 2003.

#### E. SOIL ANALYSIS REPORT

Soil samples were collected from Site at 20 cm depth. Analysis results are tabulated in the following Table 6.

**Table 6: Quality of Soil Sample** 

Sr.	Parameters	Unit	Results	Reference Method
No.			East	
			Boundary	
1.	рН	-	6.28	IS 2720 : Part 26 : 1987
2.	Moisture Content	%	7.5	IS 2720 : Part 09: 1992
3.	Sulphate	mg/gm	4.0	IS 2720 : Part 27 : 1977
4.	Organic Matter	%	2.9	IS 2720 : Part 22 : 1972
5.	Chloride	%	1.01	IS 6925: 1973
6.	Copper	mg/gm	BDL	APHA 3500-Cu
7.	Total Kjeldhal Nitrogen	mg/gm	0.19	APHA 4500-N <sub>ORG</sub>
8.	Zinc	mg/gm	BDL	APHA 3500-Zn

**BDL:** Below Detectable Level

#### **Observations:**

The soil analysis result shows that, the basic parameter like Organic matter & Total Nitrogen are less in the soil. Further, heavy metals like Copper & Zinc are below detectable limit.

### Annexure – II EMP Cost

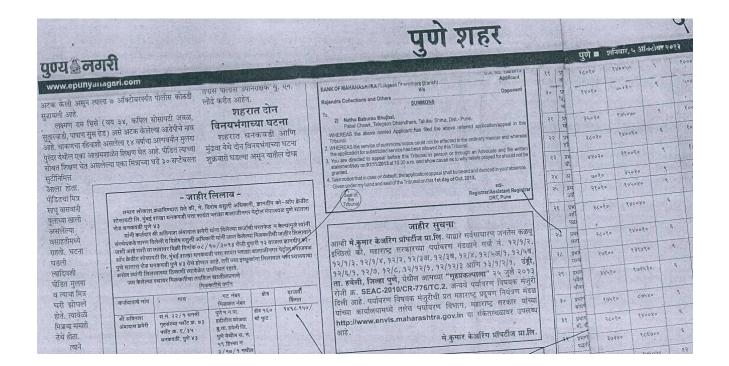
Sr. No.	Pollution control Measures	Capital Cost (Rs. Lakhs)	Recurring Cost Per Annum (Rs. Lakhs)	Arrangement of Corpus fund			
1	Construction Phase						
	Construction Phase	5	1.5	Developer & Site In Charge			
2	Operational Phase						
1.	Pollution Control - STP, Scrubber & Noise Control Measures	6 (Includes cost of power, operation & maintenance)	100 (Construction of STP)	Resident Society & AMC with the Supplier for first Five Years			
2.	Environment Monitoring	5 (Monitoring charges for air, water, waste water, soil, DG stack, noise etc.)	Nil	Resident Society (As corpus fund an amount of approx. Rs 4/- per square foot shall be charged per month)			
3.	Solid Waste Management	3 (includes cost of waste collection, storage and disposal)	10 (Includes cost of waste collection, storage and OWC)				
4.	Occupational Health	2 (includes cost of medical checkup, PPE & first aid kit)	5 (includes cost of PPE, first aid facility)				
5.	Green Belt development	5 (includes cost of landscaping of plot area)	50 (includes landscaping of plot area)				
6.	Others (EHS orientation & training)	2 (Environment & safety training)	5 (other equipments)				
	Total	23	170				

### **Public Notice**

#### **English New paper Public Notice**



#### Marathi New Paper Public Notice



# Maharashtra Pollution Control Board



### Acknowledgement Receipt for Consent To Establish

Date:

18 Nov 2013

Acknowledgement No.: 014836

This is to acknowledge the receipt of your application form for Consent. The details are shown below.

Industry Name	Kumar Kering Properties Pvt. Ltd.
Consent Type	NEW APPLICATION C2E
Fee Received	227680/-
Demand Draft No.	001534
Demand Draft Date	22/Oct/2013
Bank Name	HDFC Bank
FTS No.	131118FT0140
Submitted At	RO-Pune

#### NOTE :-

For any further correspondence with this office, you are requested to quote the above mentioned Acknowledgement No.

This is computer generated receipt, hence does not required any signature.

#### PROJECT STATUS REPORT

#### BACKGROUND

EC No.	1:	SEAC-2010/CR.776/TC.2 Dated: 25 <sup>th</sup> July 2013	
Project name	:	"Palmspring" Residential Project	
Project location	:	Sr. No. 12/1/2,12/1/3,12/1/4,12/2,12/3A,12/3B,12/4,12/5A/1, 12/5B, 12/6/1, 12/7,12/8, 12/12/1, 12/12/3, Village Undri, Ta. Haveli, Pune, Maharashtra.	
Developer name	:	M/s. Kumar Kering Properties Pvt. Ltd.	
Developers address	:	Kumar Capital, 1 <sup>st</sup> Floor, 2413, east Street Camp, Pune 411001. Maharashtra	

Comparation of the first

#### PROJECT STATUS

Status updated on

: December 28, 2013

Activity Phase of project

: Phase - I Completed and Phase - II Yet not Started

**Excavation details** 

: 100 % Completed for Phase - I and Phase - II to yet

Not started

### CONSTRUCTION DETAILS - Phase I

Sr. No	Building Name/ otherar Nerrag Property Current status of Work			
	Littles Code Lightweet 2413 Carp Production			
1	Bungalows 44 Nos.	Completed		
2	Gardening/Landscape	Work Yet Not Started		
3	STP	Septic Tank provided for Phase – I		
4	RWH	Completed		
5	Internal Roads	Completed		
6	Lighting	Completed		
7	Plumbing	Completed		
8	Solid Waste Management	Vermicomposting provided		

Work Yet Not State 1

Complete:

Vermicomposting provided

#### CONSTRUCTION DETAILS - Phase II

Status updated on

: December 28, 2013

**Activity Phase of project** 

: Phase-II Not Started

**Excavation details** 

: Not Started

### CONSTRUCTION DETAILS - Phase II

Sr. No	Building Name/ other	Current status of Work
1	Building A1 to A8 (P + 12	Work Yet Not Started
	Floors)	
2	Building E (P + 10 Floors)	Work Yet Not Started
3	Solid Waste Management Pi	.:Work Yet Not Started
4	STP	Work Yet Not Started
5	Gardening/Landscape	Work Yet Not Started
6	RWH	Work yet not started
7	Internal Roads	Work yet not started
8	Lighting	Work Yet Not Started
9	Plumbing	Work yet not started

Note: Phase - I Construction work Completed and Phase - II work yet not started

Work Yet Not Stated Work Yet Not Stated Work Yet Not Stated

Work yet not statted

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Prepared by (Sachin Yallurkar)

checked by (D. A. Dughad)

Approved by (Samir Patil)