

Date:

The Member Secretary

Infrastructure & Miscellaneous Projects & CRZ Committee (Infra-2)

Ministry of Environment, Forests and Climate Change, Govt. of India

Indira Paryavaran Bhavan,

Jor Bagh Road, New Delhi-110003

Reference: 15th EAC meeting (Infra-2) held on 14.04.2017

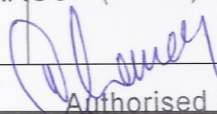
Subject: Reply to queries raised during Appraisal Meeting 15th EAC meeting (Infra-2), for Environment Clearance of project Expansion of Group Housing "MAHAGUN MYWOODS" at Plot No. - 04, SECTOR - 16C, NOIDA EXTENSION, GREATER NOIDA, UTTAR PRADESH being developed by M/S Mahagun India Pvt. Ltd.

Dear Sir,

The Expansion of Group Housing "MahagunMywoods" is proposed at Plot no. -04, Sector-16C, Noida Extension, Greater Noida, Uttar Pradesh. The application for grant of TOR was submitted on 20-09-2016 to SEIAA, UP. We had collected the baseline samples for the month of October-December, 2016 on the basis of our submission. As per Gazetted Notification S.O. 3999 (E) dated 9/12/2016, project falls under Activity 8(b) & Category 'A'. Therefore, TOR application was again submitted MoEF&CC on 29/12/2016. Standard TOR was granted by MoEF&CC on 06-03-2017. EIA report with TOR Compliance was submitted to MoEF&CC on 29-03-2017. Appraisal for grant of Environmental Clearance was done on 15th EAC meeting held on 14/04/2017. Few queries were asked in the meeting, we are hereby submitting the required additional details for Grant of Environmental clearance.

S. No.	Queries raised	Reply
1	Certified compliance report issued by the Regional Office, Lucknow on the environmental conditions stipulated in earlier EC issued vide letter no. 710/726/SEAC/2011/AAS(S) dated 31.03.2012.	A letter was submitted to Regional Office, MoEF on 7/2/2017 for Site visit of our project. Dr. Satya visited site on 18/2/2017 as MoEF Representative. A Reminder letter submitted was submitted to RO, MoEF Lucknow for issuing Certified Compliance Letter. Copy of letters submitted to MoEF is attached as Annexure A .
2	Give a conformity status to conditions stipulated in Annexure XIV of the amended EIA Notification vide S.O. 3999 (E) dated 09.12.2016.	Conditions stipulated in Annexure XIV of the amended EIA Notification vide S.O. 3999 (E) dated 09.12.2016 is applicable for built-up area from 5,000 sqm to 1,50,000 sqm. As built up area for our project after expansion will be 8,53,653.39 sqm hence above conditions is not applicable for our

For MAHAGUN (INDIA) PVT. LTD.



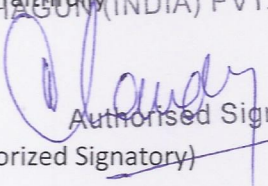
Authorised Signatory

		time of Construction.
10	Give detailed plans for disposal of water generated through excavation and dewatering so as to conform to CGWA stipulations. Ensure that this water is in no circumstances drained out but is suitably harvested. Seek permission of CGWA in this regard.	Since excavation is not proposed for the expansion part thus, no permission is required from CGWA.

Hope this will fulfil the Requirement and Environmental Clearance will be granted at the earliest.

Thanking you

Yours faithfully
For MAHAGUN (INDIA) PVT. LTD.


Authorised Signatory
(Authorized Signatory)

PROJECT PROPONENT:

M/s MAHAGUN REAL ESTATE PVT. LTD.

ENVIRONMENT CONSULTANT:

M/s PERFECT ENVIRO SOLUTIONS PVT. LTD.

Annexure A

Request to MoEF&CC for issuing

Certified Compliance Report

PROJECT PROPONENT:

M/s MAHAGUN REAL ESTATE PVT. LTD.

ENVIRONMENT CONSULTANT:

M/s PERFECT ENVIRO SOLUTIONS PVT. LTD.

To,
Director
Ministry of Environment, Forest & Climate Change
Government of India
Regional Office (Central Region)
Kendriya Bhawan, 5th Floor, Sector-H, Aliganj
Lucknow- 226024

Dated:

Sub: Request for Site Visit and thereby Issuance of Certified Compliance Report / Certificate of Environmental clearance received for the project – Group Housing "Mahagun Mywoods" being developed by M/s Mahagun India Pvt. Ltd.

Reference: Environmental Clearance Letter No. 710/726/SEAC/2011/AA(S) dated 31/03/2012

Dear Sir,

We wish to inform you that we had already been granted the Environmental Clearance vide letter no. 710/726/SEAC/2011/AA(S) dated 31/03/2012 from SEIAA for the development of the Group Housing "Mahagun Mywoods" at plot no. GH-04, Sector-16C, Greater Noida, Uttar Pradesh for plot area 133690 sqm & built up area of 663509.18 sqm.

We wish to bring to your notice that we are in the process for Expansion of Environment Clearance from MoEF&CC for our project Group Housing "Mahagun Mywoods" at plot no. GH-04, Sector-16C, Greater Noida, Uttar Pradesh, due to the revision of the built up area from 663509.18 sqm to 853653.39 Sqm and as per the MoEF&CC Circular dated 30.05.2012 vide Circular no: J-11011/618/2010-IA-II (I), we need to submit the Certified Satisfactory Compliance Report / Certificate from MoEF Regional Office (Compliance of the conditions stipulated in the Environmental Clearance).

We hereby earnestly request you to kindly arrange / conduct the Site visit of our Project and thereby issue us the Certified Satisfactory Compliance Report / Certificate at the earliest so that the same can be submitted to MoEF&CC, for our Case to be accepted and placed for consideration before the EAC (Expert Appraisal Committee).

Thanking You,

Yours Faithfully,

For, M/s Mahagun India Pvt. Ltd.



(Authorized Signatory)



Enclosures:

1. Copy of the Environmental Clearance
2. Copy of the MoEF Circular dated 30.05.2012 vide Circular no: J-11011/618/2010-IA-II (I)

Director
Ministry of Environment, Forest & Climate Change
Government of India
Regional Office (Central Region)
Kendriya Bhawan, 5th Floor, Sector-H, Aliganj
Lucknow- 226024

Sub: Issuance of Certified Compliance Report / Certificate of Environmental clearance received for the project – Group Housing “My Woods” being developed by M/s Mahagun India Pvt. Ltd.

Reference: visit done on 18.02.2017 for Environmental Clearance Letter No. 710/726/SEAC/2011/AA(S) dated 31/03/2012.

Dear Sir,

We reference to your site visit on 18.02.2017 for the development of the Group Housing “My Woods” at plot no. GH-04, Sector-16C, Noida Extension, Greater Noida, Uttar Pradesh for plot area 133690 sqm & built up area of 663509.18 sqm.

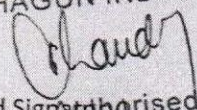
We were asked to submit some documents. We are hereby submitting the pointwise documents for your kind perusal:

S. No	DOCUMENTS REQUIRED	REPLY
1.	Certificate of Green building	Copy of certificate for Green building is enclosed as Annexure -I
2.	Plantation details with no. and name of trees with year of plantation and their survival rate	List of trees with no and name and with their survival rate is enclosed as Annexure-II
3.	Bills of fly ash purchased for last six months	Details of fly ash purchased from July 2016 to January 2017 with their bills is enclosed as Annexure-III
4.	Parking details	Parking details are attached as Annexure-IV
5.	CSR details to be submitted	CSR details is attached as Annexure-V
6.	Proof of request for certified compliance	Online report attached as Annexure-VI
7.	Detail of LED Lights & Energy Conservation plan	Annexure - VII
8.	Agreement for Disposal of Municipal & E. waste	We shall obtain the agreement for the project before the occupancy or operation phase.
9.	Detail of Soil excavated, used at site & disposed	Annexure - VIII
10.	Disaster Plan	Annexure - IX
11.	Airport Approval	Annexure - X
12.	Copy of Docs submitted with Initial Compliance	Annexure - XI
13.	Approved Building Plan	Annexure- XII

Thanking You,

Yours Faithfully,

For, M/s Mahagun India Pvt. Ltd.
For MAHAGUN INDIA PVT. LTD.


(Authorized Signatory)



Director
Ministry of Environment, Forest & Climate Change Government of India
Regional Office (Central Region)
Kendriya Bhawan, 5th Floor, Sector-H, Aliganj Lucknow -226024

Sub: Request for issuance of Certified Compliance Report/ Certificate of Environmental clearance received for the project - "Expansion of Group Housing Colony "MAHAGUN MYWOODS" at Plot no. GH - 04, SECTOR - 16 C, Noida Extension, Greater Noida, Uttar Pradesh being developed by M/s Mahagun India Pvt. Ltd.

Reference: Environmental Clearance vide letter No. 710/726/SEAC/2011/AA(S) dated 31.03. 2012.

Dear Sir,

We wish to inform you that we had already been granted the Environmental Clearance vide letter no. 710/726/SEAC/2011/AA(S) dated 31.03. 2012, from the MoEF for the development of the Group Housing Colony "MAHAGUN MYWOODS" at Plot no. GH - 04, SECTOR - 16 C, Noida Extension, Greater Noida, Uttar Pradesh for plot area 133690sqm & built up area of 6,63,509.18 sqm.

We wish to bring in your kind notice that we are in the process for Expansion in Environment Clearance from MoEF&CC for our project " Group Housing Colony "MAHAGUN MYWOODS" " at Plot No. GH-04, SECTOR - 16 C, Noida Extension, Greater Noida, Uttar Pradesh due to the revision of the built-up area from 663509.180 sqm to 853653.39 Sqm and plot area from 133690 sqm to 145737.8 sqm and as per the MoEF&CC Circular dated 30.05.2012 vide Circular no: J-110111618/2010-IA-11 (I), we need to submit the Certified Satisfactory Compliance Report / Certificate from MoEF Regional Office (Compliance of the conditions stipulated in the Environmental Clearance). The site visit has been done on 18.02.2017. Accordingly, we have submitted all the required documents being asked by the learned officer on 06.03.2017 but we are still awaiting the desired Certified Satisfactory Compliance Report/Certificate so that the same can be submitted to MoEF&CC/SEIAA for our Case which has been listed in MoEF&CC on 14.04.2017.

Thanking You,

Yours Faithfully, MAHAGUN INDIA PVT. LTD.

For M/s Mahagun India Pvt. Ltd.

Omishree
11-4-17

Annexure B

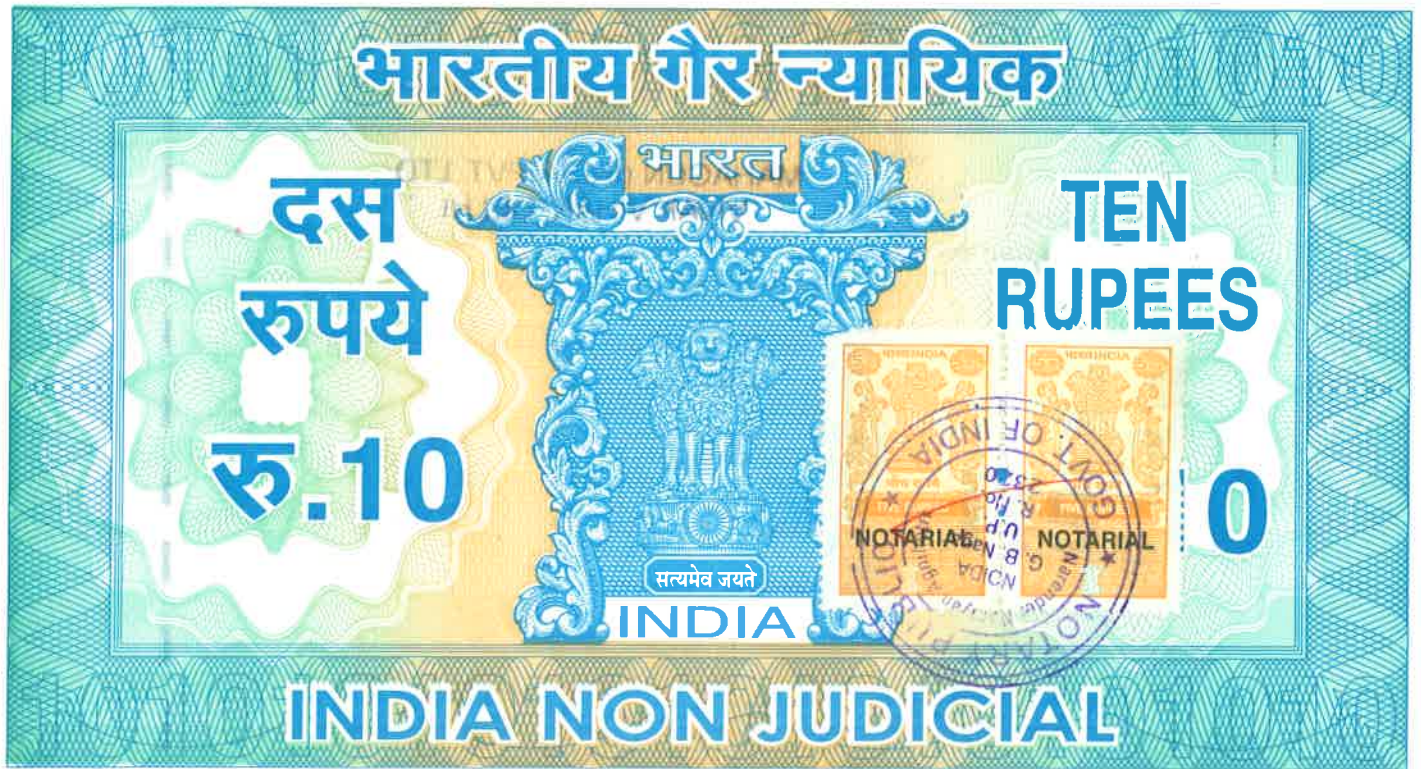
No-Violation Affidavit

PROJECT PROPONENT:

M/s MAHAGUN REAL ESTATE PVT. LTD.

ENVIRONMENT CONSULTANT:

M/s PERFECT ENVIRO SOLUTIONS PVT. LTD.



उत्तर प्रदेश UTTAR PRADESH

Affidavit

16AD 087738

I Peeyush Chaudhry, S/o M. K. Jain authorized signatory of Mahagun India Pvt. Ltd. for project Expansion of Group Housing "Mahagun Mywoods" at Plot no. GH-04, Sector-16C, Noida Extension, Greater Noida, Uttar Pradesh, do hereby solemnly affirm and declare as under:

1. That we have obtained the Environmental Clearance of the project vide letter no. 710/726/SEAC/2011/AA(s) dated 31 march, 2012 for plot area 145737.8 sqm (36.01 acre) and built-up area 663509.180 sqm.
2. That we have complied all the Environmental Clearance conditions mentioned in the Environmental Clearance Letter.
3. That we have not done any violation of EIA Notification, 2006.

Deponent

Verification

Verified at Noida on 14/04/2017 That the contents of Para's 1, 2, 3 of the above affidavits are true and correct to my knowledge and nothing has concealed there in it.

Deponent

ATTESTED

Narender Narayan Agnihotri
Advocate (Notary)
R. No.: 2320
NOIDA G. B NAGAR

17 APR 2017

नं.	1438	रु.	✓	शामिल
दिनांक मया।				
★	22 MAR 2017			★
रोकड़िया				
★	कोषागार	★	गौतमबुद्ध नगर	★

MAHAGUN (INDIA) PVT. LTD.
VIVAK VIHAR, DELHI

Annexure C

ECBC Compliance

PROJECT PROPONENT:

M/s MAHAGUN REAL ESTATE PVT. LTD.

ENVIRONMENT CONSULTANT:

M/s PERFECT ENVIRO SOLUTIONS PVT. LTD.

Mahagun Mywoods

ECBC Compliance
(Performance Method)

ARCHITECTURE

(a). SITE

Mahagun Mywoods at plot no. GH-04, Sector 16C, Greater Noida, Uttar Pradesh situated at latitude 28°37'15.62" N and longitude 77°25'39.98" E at 202m above MSL.

(b). CLIMATOLOGY

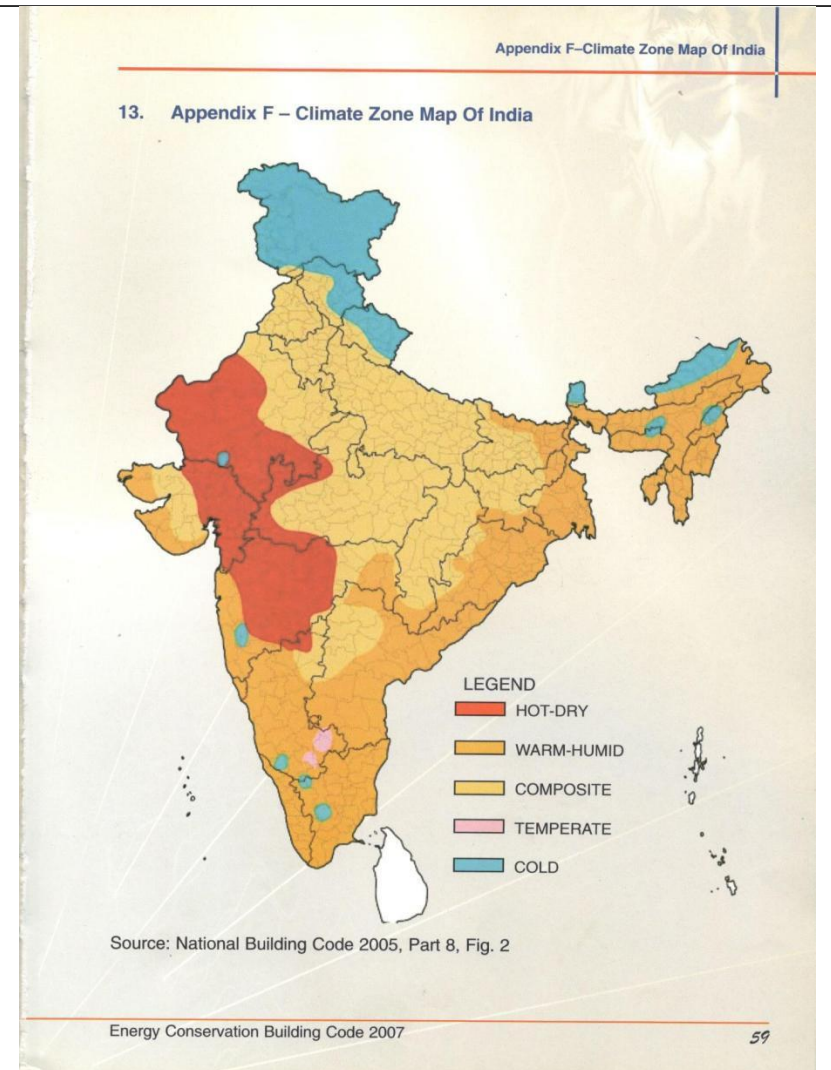
Greater Noida has **Composite Climate** (refer climate zone map of India). Composite climates are neither consistently hot-dry neither consistently warm-humid. Their characteristics changes from season to season, alternating between long hot, dry periods to shelter periods of concentrated rainfall and high humidity. Significant differences in temperature, humidity, wind, sky and ground conditions can easily be appreciated.

A third season can be considered having dry sunny days and uncomfortable cold nights which is referred to winter.

During the cold season the effective temperatures are much lower than in the two warmer seasons (warm-humid and hot-dry) and physical comfort will depend on the prevention of heat loss from the body, especially at night. In the warm seasons the heat dissipation is inadequate and our attempt should be to increase it as much as possible, but in cold season it may become excessive, creating a sensation of cold discomfort.

(c). DESIGN CRITERIA

Climate with changing seasons set a difficult task. In order to develop optimum



design standards which are appropriate to composite climate as a whole it is necessary to establish some form of weighting whereby priorities can be allocated. Such weighting system can be based on length of different seasons on relative severity of the condition and their correlation of living pattern.

The results show that, taken singly cold season is the most important for thermal design. It outweighs two hot seasons put together. However where the design solution are similar for the hot-dry and cold-dry seasons, their pre-dominance over warm-humid season is even more pronounced. On the basis of such an analysis design standards can be formulated for composite climate of Noida.

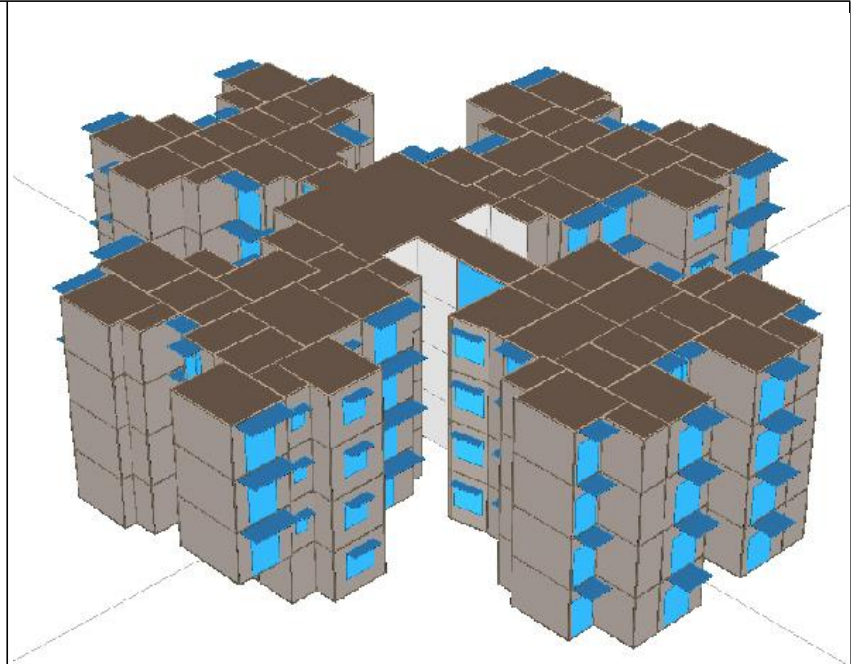
(d). FORM AND PLANNING

Orientation of building and of its major openings can greatly influence the solar heat gain, thus it is carefully considered. North and South facing vertical walls receive the least amount of radiation. Building under expansion have orientation to the north and south direction so that longer walls shall not faced east or west direction.

Openings are majorly covered by horizontal projection of balconies having 1.5 m wide. The arrangement would reduce incident solar radiation on fenestration.

(e). EXTERNAL SPACES

Larger projecting (wide) balconies have been suggested as outdoor living area which shall be useful for warm-humid (monsoon) season. It can also be asset in hot season as this shall protect fenestration from direct solar radiation and in cold season balconies can be used in day time to take advantage of the sun.



Landscape courtyard between the buildings shall be more pleasant outdoor space for most of the year to allow sun penetration during the winter months but provide shading in the hot season

(f). ROOFS AND WALLS

For continually occupied building the task in two folds

1. To limit the heat admitted during the strong sunshine hours.
2. To store some heat to be re-emitted during the cold period.

The retention of night time low wall temperature is desirable in the hot dry seasons but same thermal properties will be useful in cold season to retain the heat of the day for the uncomfortably cold nights.

External walls are therefore will be constructed of AAC blocks / RCC. AAC block with external plaster in cement motor has thermal insulation property which shall serve above purpose.

The roof is by far more important as it receives the greatest amount of radiation.

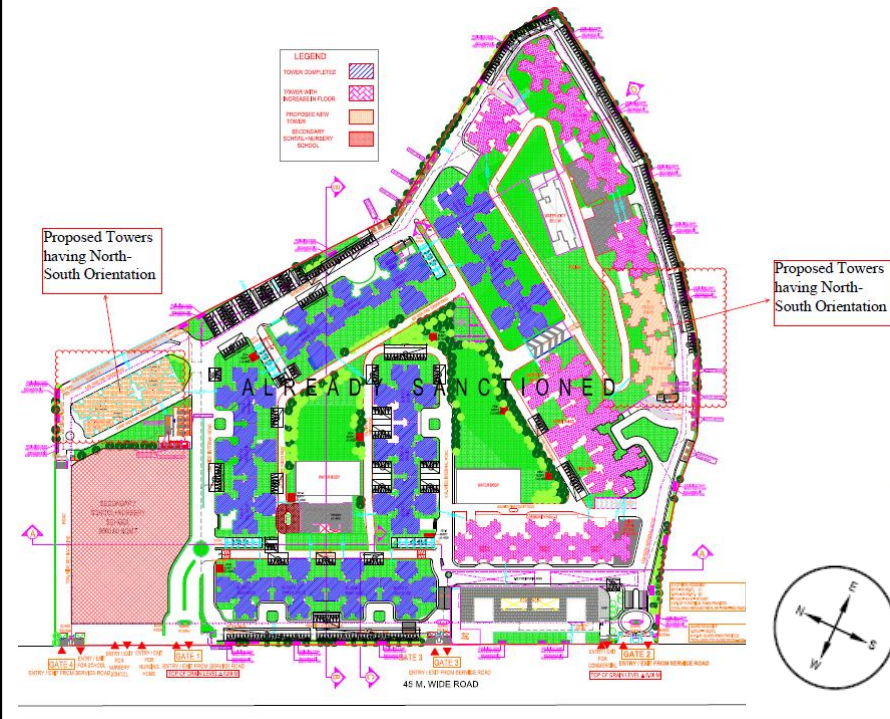
Roofs shall be RCC with Reflective white color ceramic tiles and insulation.

(g). SURFACE TREATMENT

The prevention of heat entering through the outer surfaces of walls and roof at a fundamental rule. Walls exposed to sun during hot & warm shall be painted in light color.

(h). OPENINGS

Orientation of major openings are on north-south to utilize cooling effect of prevailing breezes during the warm humid seasons and it will also help to



Base Case Vs Proposed Case

Section 4 - Building Envelope

Sr. No.	Building Envelope Component	ECBC Prescriptive Compliance	Proposed
1	Roof	$U = 0.261 \text{ W/sqm K (max)}$ Initial Solar Reflectance = 0.7 (min) Initial Emittance = 0.75 (min)	0.47 W/sqmK Roof with thermal insulation and reflective paint (1.5 inches Cement Plaster + 2.5 inches thermocol insulation (underdeck) + 5 inches RCC slab + 1.5 inches screed + Reflective Paint)
2	External Wall	$U = 0.44 \text{ W/sqm K (max)}$	0.623 W/sqmK (15mm Outside plaster + 200mm AAC Block + 12mm Internal plaster)
3	Fenestration	$U = 3.3 \text{ W/sqm K}$; $\text{SHGC} = 0.25 \text{ (max)}$; $\text{VLT} = 0.27 \text{ (min)}$	$U = 5.6 \text{ W/sqmK}$ $\text{SHGC} = 0.6$ Balcony Shading
4.	HVAC	As per ECBC	Default as per ECBC
5.	Lighting	7.5 W/sqm	Dwelling unit – 0.7 W/sqm Common areas – 0.17 W/sqm Club House – 0.5 to 0.2 Parking Basement – 0.114 W/sqm

Baseline Case

13_04_18

DOE-2.2-47h2 4/13/2017 19:23:53 BDL RUN 3

REPORT- BEPU Building Utility Performance

WEATHER FILE- EPW NEW DELHI,-,IND

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Proposed Case

13 04 18

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REPORT- BEPU Building Utility Performance

WEATHER FILE- EPW NEW DELHI, -, IND

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Energy Saving

- Baseline energy consumption – 1546651 KWH
- Proposed case energy consumption – 1444494 KWH

Energy Savings – 6.6%

Area – 16155 sqm

Energy Consumption – 89 KWH/sqm/year

Annexure D

Sewerage Plan

PROJECT PROPONENT:

M/s MAHAGUN REAL ESTATE PVT. LTD.

ENVIRONMENT CONSULTANT:

M/s PERFECT ENVIRO SOLUTIONS PVT. LTD.

DESIGN OF SEWER LINE PHASE-1 (LVING-1 TO 5 & 10)

Population	
Total No. of Apartments	= 3,634 Nos.
Total Permanent Population	= 13,653 Persons
Club & Floating Population	= 2,090 Persons
Staff	= 700 Persons
Total Water Demand	
Apartments	@ 135 lpcd = 1,843.58 Liters
Club & Floating	@ 135 lpcd = 1,500 Liters
Staff	@ 45 lpcd = 31,500 Liters
Total Water Demand	
= 1,905,405 Liters	
By taking interception factor	
Hence Total Sewage Load	@ 90% = 1,714,865 Liters/day
or	
= 19,85 Litersec	
By taking Peak Factor	
Peak Sewage Generated (3 times of Avg Flow)	@ 3 = 59,541 Litersec

Sewer Pipe Design	
Final Sewage Pipe Dia Selected	= 400 mm
Slope (1 in ...)	= 450

Sewer Design as per Manning Formula

$$V = \frac{3.988 \times 10^3 \times D^{0.54} \times S^{0.57}}{n}$$

Where -
 $D =$ Dia (mm) = 400 mm
 $S =$ Slope = 450
 $n =$ Manning Coefficient = 0.011
 $V =$ Velocity (m/sec)

Actual Pipe Capacity (Q) = $1117^3 \times V$
at 100% flow = 115,950 m³/sec
Litersec
Where -
 $D =$ Dia (mm) = 400 mm
 $V =$ Velocity (m/sec) = 0.32
 $Q =$ Pipe Capacity (at full flow) m³/sec

Peak Sewage Generated (see peak discharge) = 59,541 Liters
Actual Pipe Capacity at 100% flow = 115,950 Liters
Site peak discharge is less than 80% of pipe capacity, hence 400 mm Pipe Dia is OK

DESIGN OF SEWER LINE PHASE-2 (LVING-6 TO 9)

Population	
Total No. of Apartments	= 2,816 Nos.
Total Permanent Population	= 12,672 Persons
Club & Floating Population	= 1,950 Persons
Staff	= 650 Persons
Total Water Demand	
Apartments	@ 135 lpcd = 1,710,720 Liters
Club & Floating	@ 135 lpcd = 1,500 Liters
Staff	@ 45 lpcd = 29,250 Liters
Total Water Demand	
= 1,769,220 Liters	
By taking interception factor	
Hence Total Sewage Load	@ 90% = 1,592,298 Liters/day
or	
= 18,43 Litersec	
By taking Peak Factor	
Peak Sewage Generated (3 times of Avg Flow)	@ 3 = 55,23 Litersec

Sewer Pipe Design	
Final Sewage Pipe Dia Selected	= 400 mm
Slope (1 in ...)	= 450

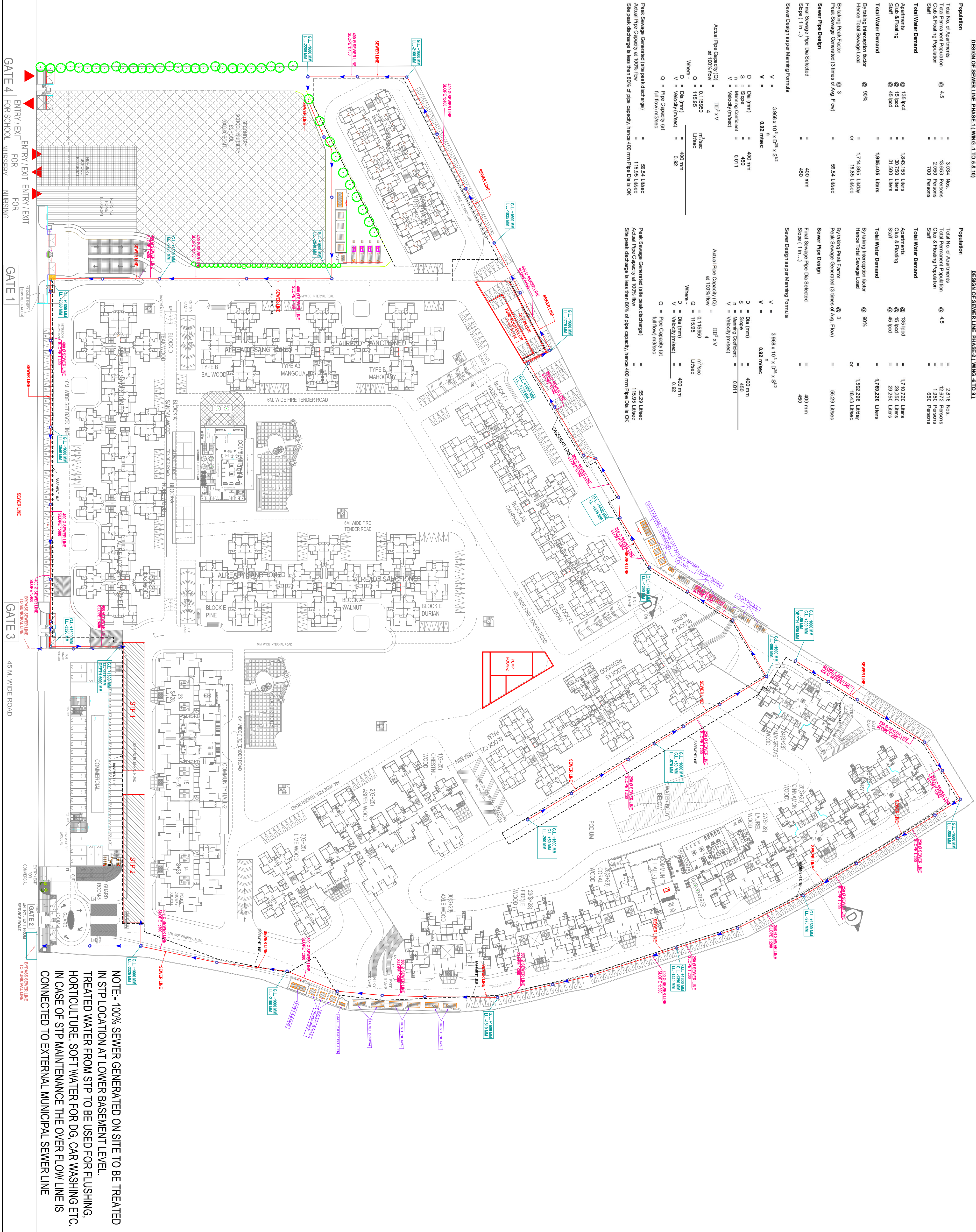
Sewer Design as per Manning Formula

$$V = \frac{3.988 \times 10^3 \times D^{0.54} \times S^{0.57}}{n}$$

Where -
 $D =$ Dia (mm) = 400 mm
 $S =$ Slope = 450
 $n =$ Manning Coefficient = 0.011
 $V =$ Velocity (m/sec)

Actual Pipe Capacity (Q) = $1117^3 \times V$
at 100% flow = 115,950 m³/sec
Litersec
Where -
 $D =$ Dia (mm) = 400 mm
 $V =$ Velocity (m/sec) = 0.32
 $Q =$ Pipe Capacity (at full flow) m³/sec

Peak Sewage Generated (see peak discharge) = 55,23 Liters
Actual Pipe Capacity at 100% flow = 115,950 Liters
Site peak discharge is less than 80% of pipe capacity, hence 400 mm Pipe Dia is OK



NOTE:- 100% SEWER GENERATED ON SITE TO BE TREATED IN STP LOCATION AT LOWER BASEMENT LEVEL. TREATED WATER FROM STP TO BE USED FOR FLUSHING, HORTICULTURE, SOFT WATER FOR DG, CAR WASHING ETC. IN CASE OF STP MAINTENANCE THE OVER FLOW LINE IS CONNECTED TO EXTERNAL MUNICIPAL SEWER LINE

S. No.	SYMBOL	DESCRIPTION
1.	M.H.	MANHOLE
2.	—●—	SEWER LINE
3.	—●—	BYPASS SEWER LINE
4.	-----	BASEMENT LINE

project

MAHAGUN MYWOODS
AT PLOT NO. GH-04, SECTOR-16C, GREATER Noida

title

SITE PLAN

sub title

EXTERNAL SEWERAGE SYSTEM

drawing released for

☐ APPROVAL ☒ SUBMISSION

☐ ADVANCE COPY ☐ CONSTRUCTION

dra. no.

MYWOODS-EX-1502

scale

1:300

date

Dec 2015

architects

GIAN P. MATHUR & ASSOCIATES (P) LTD.
ABOOTH'S ENGINEERS & PLANNERS CONSULTANTS FOR POLISH NEW DELHI-45
PH-011-46892891 / FAX-46892912

services consultant

Consummate Engineering Services (P) Ltd.
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Lko Office: 8-1066, Boudha Panchsala, Gurgaon, Haryana
Tel: (0122) 6515455
e mail : mail@cespln website : www.cespln

Annexure E

Energy Conservation Measures

PROJECT PROPONENT:

M/s MAHAGUN REAL ESTATE PVT. LTD.

ENVIRONMENT CONSULTANT:

M/s PERFECT ENVIRO SOLUTIONS PVT. LTD.

Existing Area:

636231.615 Sqm area has already been developed in 26 No. of towers with 22 floors (as per EC granted). As per Earlier EC, we were asked to design building with energy conservation measures, however the ECBC code was not mandatory at the time of earlier EC. Construction of 26 Tower 22 floor has been completed. The building material used with their U & R value are given below:

	Material	U	R
Wall	9 inch Flyash Brick + plaster on both the sides	1.25 W/sqmK	0.8 SqmK/W
Roof	1.5 inch Plaster + 5 inch RCC Slab + 100mm Brick coba + 1.5 inch screed + Reflective Paint	1.7 W/sqm K	0.58 SqmK/W

Energy Conservation Measures already taken in existing constructed area are as follow:

- Maximum Daylight areas to reduce artificial lighting load in day hours
- UPVC windows for better thermal conductivity
- Balcony shading over windows to reduce effective SHGC
- VFD in Pumps and Motors
- Transformers will have efficiency as per ECBC
- Energy efficient elevators with Group control
- Capacitors for maintaining power factor 0.99

Now we have proposed an additional construction for 190144.21 sqm area in 4 tower & 28 floors.

As per prevailing condition, we are proposing the following details of Building material with their U & r values which will comply with ECBC code.

	Material	U	R
Wall	15mm Outside plaster + 200mm AAC Block + 12mm Internal plaster	0.63 W/sqmK	1.58 SqmK/W
Roof	1.5 inch Plaster + 2.5 inch Expanded Polystyrene underdeck insulation + 5 inch RCC Slab + 100mm Brick coba + 1.5 inch screed + Reflective Paint	0.47 W/sqm K	2.127 SqmK/W
Glass	Single Glazing Energy Efficient Glass	5.6 W/sqmK SHGC - 0.6	0.178 sqmK/W

Apart from earlier Conservation already taken in existing part. The following measures will be additionally implemented in proposed part.

- High SRI finish over terrace for reflecting direct solar radiation
- Efficient envelope (Wall, Roof, and Glass) for reducing heat gain
- Lifts with regenerative braking system, reducing power consumption
- Solar water heaters to meet 25% of total hot water requirement
- LED in common areas for reducing lighting load
- BEE star rated Air-conditioners in common areas and clubhouse

We will be having 122No. of solar lights (solar energy part)