

IS 15700:2005



सर्वोत्तम क्वालिटी

(01)
 उत्तर प्रदेश आवास एवं विकास परिषद
 कार्यालय अधिशासी अभियन्ता, निर्माण खण्ड-11
 आफिस कॉम्प्लेक्स, वृन्दावन योजना, सेक्टर-9, लखनऊ.
 Email: eecd11ko@gmail.com



CONTRACT BOND NO. 12/S.E(V)/CD-11/2015-2016 Date: 30.03.2016
 NAME OF CONTRACTOR M/S LARSEN & TOUBRO Ltd.
 NAME OF WORK Const. of Multi Storeyed (B+G+12/13)
 DATE OF START 30.03.2016 at Sec-20, V.Y.4 UKO
 DATE OF COMPLETION OF WORK 29.09.2018 (Govt. Khan Enclave,

S. No.	Particulars	Page No.
1	Index	01-02
2	Acceptance Letter of E.E. C.D.-11, Letter No. 454/AC-8/21 Dated 10/3/2016 Regarding (Schedule F)	03-20
3	Date of Start S.E.(V.V)/E.E. Letter No. 12/S.E(V)/CD-11/2015-2016 Date: 30.03.2016	20(A)-20(B)
4	Agreement Form	21-40
5	Power of Attorneys	41-54
6	Guarantee Bond	55-62
7	Bill of Quantity (Schedule-B)	63-66
8	General Condition of Contract (GPW-9) Part-B (S.No. 179 to 194)	1
9	Other Correspondence that is to form part of Contract Bond	67-104
10	Drawings Part B (inculcating No. 246-342) Number Part B (246-342)	
11	Total number of pages in the Contract Bond Part A + Part B = A+B	
12	Total number of Drawings in the Contract Bond 184 + 354 = 538	
13	Part - B	

CONTRACTOR

A.E.

E.E.
E.E.

S.E.

Vrindavan Circle

State Level Environment Impact Assessment Authority, Uttar Pradesh

4/3/17

Directorate of Environment, U.P.

Vineet Khand-1, Gomti Nagar, Lucknow - 226 010

Phone : 91-522-2300 541, Fax : 91-522-2300 543

E-mail : docuplko@yahoo.com

Website : www.seiaaup.in

To,

Shri A.K. Mishra,
Executive Engineer,
M/s U.P. Awas Evam Vikas Parishad,
Construction Division-11, Office complex,
Vrindavan Yojana, Sector-9,
Lucknow, U.P.

Ref. No. 342/Parya/SEAC/3672/2015

Date: 04-01-2017
December, 2016

Sub: Environmental Clearance for Affordable Housing- Samajwadi Yojna at khasra no- 1176, 1178, 1179, 1180, 1181, 1182, 1183, 1185, 1186, 1187, 1188, 1189, 1190, 1195, 1151, 1152, 1153, 1154, 1155, 1156, 1161, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273d, Sector- 20, Vrindavan Yojna 04, Raebareilly Road, Gram- Kalli Paschim, Pargana- Bijnor, Tehsil & Distt- Lucknow, U.P, Regarding.

Dear Sir,

Please refer to your application/letters 09/05/2016, 10/05/2016, 03/06/2016, 21/07/2016, 09/09/2016, 16/09/2016 & 27/09/2016 addressed to the Secretary, State Level Expert Appraisal Committee (SEAC) and Director, Directorate of Environment Govt. of UP on the subject as above. A presentation was made by the representative of the project proponent shri executive engineer (CD-11) Awas evam Vikas Parisad along with their consultant M/s Sawen Consultancy Pvt. Ltd. in the SEAC meeting dated 28-10-2016.

The Project proponent, through documents (submitted to SEAC) and presentation made during meeting, has informed to the SEAC that:-

1. The environmental clearance is sought for the proposed Affordable Housing- Samajwadi Yojna at khasra no- 1176, 1178, 1179, 1180, 1181, 1182, 1183, 1185, 1186, 1187, 1188, 1189, 1190, 1195, 1151, 1152, 1153, 1154, 1155, 1156, 1161, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273, 1273d, Sector- 20, Vrindavan Yojna 04, Raebareilly Road, Gram- Kalli Paschim, Pargana- Bijnor, Tehsil & Distt- Lucknow, U.P.

2. Revised Area statement :-

S. No	Details	Area (sqmt.)	%
1	Ground Coverage	11565.26	33.90
2	Road Area	8919.36	26.14
3	Paved Area	7801.78	22.87
4	Park above Base (Hard Green) Area	1185.89	3.48
5	Soft Green Area	4644.81	13.61
	Total	34117.1	100

3. Salient feature details:

Permissible FAR (2.5)	85292.75
Purchasable FAR (Max. 50% of Permissible) (1.25)	42646.38
FAR Achieved	3.72
Purchased FAR	1.22
No. of Floors	B+ S+13
Total Electric Load	8405 KVA
Standby DG Set	01 x 255 KVA
Expected population	8280 nos.
Total Parking Requirement	1296 ECS
Total Parking Provision	1301 ECS
Total Resident Population	8280 Personnel
Sources of Water Supply	Municipal Supply
Total Consumption of Water	744.30 KLD

Total Waste Water Generated	591.84 KLD
Total MSW Generated	5422.0 Kg/Day
Proposed Rain Water Harvesting	05 nos.
STP Capacity	230 KLD {
Total Project Cost	Rs. 321.415 Crore

4. Built up area detail :-

TOTAL BUILT UP DETAILS	
Built Up Area of 1 BHK Type A	11704.32
Built Up Area of 1 BHK Type B	10408.32
Built Up Area of 2 BHK	36078.12
Built Up Area of 2 BHK + Store	71968.20
Built Up Area of Commercial Block	600.0
Built Up Area of Community Block	200.0
Sub Total of Built Up Area (A)	130958.96
Fire Escape Area (B)	4106.4
Sub Total of Built Up Area (A-B)	126852.56
Basement Area	11125.00
TOTAL BUILT UP AREA	137977.56

5. Details of Towers & Blocks :-

S.No	Type of Flats	No. of Unit (tyfl.)/block	No. of Unit (tyfl.)	No. of Floors	Total no. of Unit
1	1 BHK Type A	24	24	S+12	288
2	1 BHK Type B	16	16	S+12	192
3	2 BHK	12	36	S + 13	468
4	2 BHK + Store	4	36	S + 13	468
5	2 BHK + Store	4	20	S+12	240
				Total	1656

6. Details of Soft Green:

Soft Green Details	m ²
Green-01	463.08
Green-02	252.36
Green-03	159.46
Green-04	479.03
Green-05	152.06
Green-07	225.51
Green-08	114.67
Green-09	125.64
Green-10	189.89
Green-11	114.67
Green-12	189.89
Green-13	534.97
Green-14	143.67

7. Details of Block:

S.No	Type of Flats	No. of Unit (tyfl.)/block	No. of Unit (tyfl.)	No. of Floors	Total no. of Unit
1	1 BHK Type A	24	24	S+12	288
2	1 BHK Type B	16	16	S+12	192
3	2 BHK	12	36	S + 13	468
4	2 BHK + Store	4	36	S + 13	468
5	2 BHK + Store	4	20	S+12	240
				Total	1656

8. Built Up Area of Blocks:



Type of Block	Area of each
1 BHK Type A	11704.32
1 BHK Type B	10408.32
2 BHK	36078.12
2 BHK + Store	71968.20

9. Parking plan for basement :-

Type of Unit	Standard for ECS	Unit Area	Nos. of Unit	Area / Required	Total Required
1 BHK Type A	2.0 m ² / Unit	32.09 m ²	288	576 m ²	Hence Required, 960m ² for TWO WHEELERS
1 BHK Type B	2.0 m ² / Unit	45.41 m ²	192	384 m ²	
2 BHK	1 ECS/ 2 units	67.13 m ²	468	234 ECS	Hence Required, 604 ECS for CARS
2 BHK + Store	1 ECS/ 2 Unit	85.72 m ²	708	354 ECS	
Commercial & Community	2 ECS/ 100 m ²	600+200 m ²	= 800*2/100	16 ECS	

- Basement Area for parking = 11125 sqm
- Area Provided for Two Wheelers = 3236 sqm.
- Area for Car Parking in basement = 7889 sqm = 343 ECS ✓
- Surface Area Parking = 7801.78sqm
- Area Provided for Two Wheelers = 1656 sqm
- Area for Car Parking on Surface = 6145.78 sqm = 267 ECS ✓
- Total Area for Two Wheelers = 3236 + 1656 = 4892 sqm
- Total 610 ECS in basement & surface against requirement of 604 ECS.

10. Water Consumption & Discharge:

S. No.	Water Use	Population Generation (KID)	Per Capita in (LPCD)	Water Requirement (KLD)	Waste Water Generation (KLD)
1	Residents	8280	86	712.0	570.0
2	Service Staff	20	45	1.0	0.72
3	Commercial Staff	30	45	1.4	1.12
4	Floating Population	1670	15	25.0	20.0
TOTAL DOMESTIC WATER REQUIREMENT				739.38	591.84
5	DG Set Cooling	01 x 255 KVA	0.9l/4hr/KVA	0.92	NIL
6	Gardening	3865.24 m ²	1 l/m ²	4.0	NIL
TOTAL WATER REQUIREMENT				744.30	591.84

11. Rain Water Harvesting :-

S. No.	Description of Area	Area considered (m ²)	Harvesting Factor or Collection Efficiency	Average Annual Rainfall intensity (mm)	Total Volume of Water available for Rain Water Harvesting (m ³)
1	Roof-top Surfaces	11565.26	0.80	25	231.0
Grand Total					231.00 m ³ /hr

12. Revised landscape plan is as follows:

Park above Base (Hard Green) Area	1185.89 m ²
Soft Green Area	4644.81 m ²

- Peripheral Plantation Area in soft green : 1228.51 sqm
- Peripheral green left for 1.5 m width.



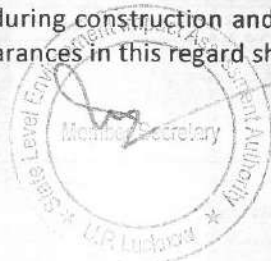
- Proposed total nos. of trees at periphery of layout
- = 273 nos at spacing of 1.50 m x 3.0 m.
- Proposed green lawn area = 3416.30 sqm
- Park Plantation Area = 683.26 sqm
- Total nos. of Ornamental Plants Proposed = 303 nos. at spacing of 1.5 m x 1.5 m. total nos. of trees proposed= 273 + 303 nos. = 576 nos.

13. The project proposals are covered under category 8(a) of EIA Notification, 2006.

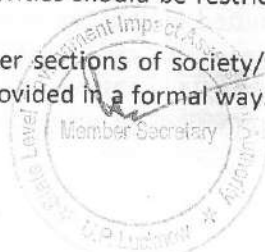
Based on the recommendations of the State Level Expert Appraisal Committee Meeting (SEAC) held on 28/10/2016 the State Level Environment Impact Assessment Authority (SEIAA) in its Meeting held on 14/12/2016 decided to grant the Environmental Clearance for proposed project along with subject to the effective implementation of the following general and specific conditions:-

General Conditions:

1. It shall be ensured that all standards related to ambient environmental quality and the emission/effluent standards as prescribed by the MoEF are strictly complied with.
2. It shall be ensured that obtain the no objection certificate from the U P pollution control board before start of construction.
3. It shall be ensured that no construction work or preparation of land by the project management except for securing the land is started on the project or the activity without the prior environmental clearance.
4. The proposed land use shall be in accordance to the prescribed land use. A land use certificate issued by the competent Authority shall be obtained in this regards.
5. All trees felling in the project area shall be as permitted by the forest department under the prescribed rules. Suitable clearance in this regard shall be obtained from the competent Authority.
6. Impact of drainage pattern on environment should be provided.
7. Surface hydrology and water regime of the project area within 10 km should be provided.
8. A suitable plan for providing shelter, light and fuel, water and waste disposal for construction labour during the construction phase shall be provided along with the number of proposed workers.
9. Measures shall be undertaken to recycle and reuse treated effluents for horticulture and plantation. A suitable plan for waste water recycling shall be submitted.
10. Obtain proper permission from competent authorities regarding enhanced traffic during and due to construction and operation of project.
11. Obtain necessary clearances from the competent Authority on the abstraction and use of ground water during the construction and operation phases.
12. Hazardous/inflammable/Explosive materials likely to be stored during the construction and operation phases shall be as per standard procedure as prescribed under law, Necessary clearances in this regards shall be obtained.
13. Solid wastes shall be suitably segregated and disposed. A separate and isolated municipal waste collection center should be provided. Necessary plans should be submitted in this regards.
14. Suitable rainwater harvesting systems as per designs of groundwater department shall be installed. Complete proposals in this regard should be submitted.
15. The emissions and effluents etc. from machines, Instruments and transport during construction and operation phases should be according to the prescribed standards. Necessary plans in this regard shall be submitted.
16. Water sprinklers and other dust control measures should be undertaken to take care of dust generated during the construction and operation phases. Necessary plans in this regard shall be submitted.
17. Suitable noise abatement measures shall be adopted during the construction and operation phases in order to ensure that the noise emissions do not violate the prescribed ambient noise standards. Necessary plans in this regard shall be submitted.
18. Separate stock piles shall be maintained for excavated top soil and the top soil should be utilized for preparation of green belt.
19. Sewage effluents shall be kept separate from rain water collection and storage system and separately disposed. Other effluents should not be allowed to mix with domestic effluents.
20. Hazardous/Solid wastes generated during construction and operation phases should be disposed off as prescribed under law. Necessary clearances in this regard shall be obtained.



21. Alternate technologies for solid waste disposals (like vermin-culture etc.) should be used in consultation with expert organizations.
22. No wetland should be infringed during construction and operation phases. Any wetland coming in the project area should be suitably rejuvenated and conserved.
23. Pavements shall be so constructed as to allow infiltration of surface run-off of rain water. Fully impermeable pavements shall not be constructed. Construction of pavements around trees shall be as per scientifically accepted principles in order to provide suitable watering, aeration and nutrition to the tree.
24. The Green building Concept suggested by Indian Green Building Council, which is a part of CII-Godrej GBC, shall be studied and followed as far as possible.
25. Compliance with the safety procedures, norms and guidelines as outlined in National Building Code 2005 shall be compulsorily ensured.
26. Ensure usage of dual flush systems for flush cisterns and explore options to use sensor based fixtures, waterless urinals and other water saving techniques.
27. Explore options for use of dual pipe plumbing for use of water with different qualities such as municipal supply, recycled water, ground water etc.
28. Ensure use of measures for reducing water demand for landscaping and using xeriscaping, efficient irrigation equipments & controlled watering systems.
29. Make suitable provisions for using solar energy as alternative source of energy. Solar energy application should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. Present a detailed report showing how much percentage of backup power for institution can be provided through solar energy so that use and polluting effects of DG sets can be minimized.
30. Make separate provision for segregation, collection, transport and disposal of e-waste.
31. Educate citizens and other stake-holders by putting up hoardings at different places to create environmental awareness.
32. 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.
33. Prepare and present disaster management plan.
34. The project proponents shall ensure that no construction activity is undertaken without obtaining pre-environmental clearance.
35. A report on the energy conservation measures conforming to energy conservation norms finalize by Bureau of Energy efficiency should be prepared incorporating details about building materials and technology, R & U Factors etc.
36. 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 August, 2003 (The above condition is applicable only if the project lies within 100 km of Thermal Power Station).
37. The DG sets to be used during construction phase should use low sulphur diesel type and should conform to E.P. rules prescribed for air and noise emission standards.
38. Alternate technologies to Chlorination (for disinfection of waste water) including methods like Ultra Violet radiation, Ozonation etc. shall be examined and a report submitted with justification for selected technology.
39. The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety.
40. The construction of the building and the consequent increased traffic load should be such that the micro climate of the area is not adversely affected.
41. The building should be designed so as to take sufficient safeguards regarding seismic zone sensitivity.
42. High rise buildings should obtain clearance from aviation department or concerned authority.
43. Suitable measures shall be taken to restrain the development of small commercial activities or slums in the vicinity of the complex. All commercial activities should be restricted to special areas earmarked for the purpose.
44. It is suggested that literacy program for weaker sections of society/women/adults (including domestic help) and under privileged children could be provided in a formal way.



24. Unless and until all the environmental issues are sorted out the occupancy will be restricted and would be only allowed after achieving the Permission from the competent authority.
25. The project proponent shall ensure that the project site does not attract/infringe any buffer zone of no activity identified/declared under law.
26. For any extraction of ground water, prior permission from CGWB shall be taken.
27. Sprinkler to be used for curing and quenching and ready mix concrete may be used for construction.
28. Possibilities of use of treated waste water for irrigation purposes should be explored. Drip irrigation should be tried upto extent possible. No fresh water will be used for irrigation purpose.
29. Mobile toilets, safe drinking water facility, sanitation facility and eco friendly fuels etc. Shall be made available to the temporary residents/workers at the project site including the proper treatment and the disposal of the wastes.

No construction/operation is to be started without obtaining Prior Environmental Clearance. Concealing factual data and information or submission of false/fabricated data and failure to comply with any of the conditions stipulated in the Prior Environmental Clearance attract action under the provision of Environmental (Protection) Act, 1986.

This Environmental Clearance is subject to ownership of the site by the project proponents in confirmation with approved Master Plan for Lucknow. In case of violation, it would not be effective and would automatically be stand cancelled.

You are also directed to ensure that the proposed site is not a part of any no-development zone as required/prescribed/identified under law. In case of violation, this permission shall automatically deem to be cancelled. Also, in the event of any dispute on ownership or land use of the proposed site, this clearance shall automatically deemed to be cancelled.

The project proponent will have to submit approved plans and proposals incorporating the conditions specified in the Environmental Clearance within 03 months of issue of the clearance. The SEIAA/MoEF reserves the right to revoke the environmental clearance, if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF. SEIAA may impose additional environmental conditions or modify the existing ones, if necessary. Necessary statutory clearances should be obtained and submitted before start of any construction activity.

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 including the amendments and rules made thereafter.

This is to request you to take further necessary action in the matter as per provision of Gazette Notification No. S.O. 1533(E) dated 14.9.2006, as amended and send regular compliance reports to the authority as prescribed in the aforesaid notification.



No..... /Parya/SEAC/3672/2015

Dated: As above

Copy with enclosure for Information and necessary action to:

1. The Principal Secretary, Department of Environment, Govt. of Uttar Pradesh, Lucknow.
2. Advisor, IA Division, Ministry of Environment, Forests & Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi.
3. Chief Conservator, Regional Office, Ministry of Environment & Forests, (Central Region), Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow.
4. District Magistrate, Lucknow.
5. The Member Secretary, U.P. Pollution Control Board, TC-12V, Paryavaran Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow.
6. Regional Officers, Regional Office, UP Pollution Control Board, Lucknow.
7. Copy to Web Master/ guard file.

(S.C. Yadav)
Member Secretary, SEIAA