



State Level Environment Impact Assessment Authority (SEIAA)

Andhra Pradesh

Government of India

Ministry of Environment Forests & Climate Change

A-3, Industrial Estate, Sanathnagar, Hyderabad-500 018.

BY REGD. POST WITH ACK DUE

Order No. SEIAA/AP/GNT/CON/01/2016/18/EC Amendment/

Dt: 17.05.2016.

Sub: SEIAA, AP – Construction of Interim Government Complex Buildings, Amaravati of APCRDA & CA in Sy.Nos.196(part), 197(part), 198(part), 199(part), 200(part), 204(part), 205 (part), 206(part), 207(part), 208(part), 209(part), 214(part) and 216(part) of Velagapudi Village, Thulluru Mandal, Guntur District, Andhra Pradesh - EC amendment for expansion and modification of Interim Government Complex Buildings– Issued – Reg.

- I. This has reference to your application submitted on 27.04.2016 (Online application No. SIA/AP/NCP/41489/2016) seeking amendment to Environment Clearance issued for **Construction of “Office Complex” Project titled “APCRDA & CA - Interim Government Complex Buildings, Amaravati” of APCRDA & CA on 9.2.2016 at Sy.Nos.196(part), 197(part), 198(part), 199(part), 200(part), 204(part), 205(part), 206(part), 207(part), 208(part), 209(part), 214(part) and 216(part) of Velagapudi Village, Thulluru Mandal, Guntur District, Andhra Pradesh, for construction of additional 2 floors . The total Capital cost of the project is Rs. 750.0 Crores.**
- II. The Environmental Clearance was issued for construction of Interim Government Complex Buildings of APCRDA & CA, at Velagapudi Village, Thulluru Mandal, Guntur District, Andhra Pradesh for Ground Floor +1st Floor (5 buildings) and Ground Floor + 2 Floors (Assembly building) - 58,655.43 Sq.meters, vide Order No.SEIAA/AP/GNT/CON/01/ 2016/18, dated 09.02.2016.
- III. It is noted that the present proposal is for expansion and modification of Interim Government Complex Buildings by adding additional 2(two) floors in all 6 buildings. The proposed Interim Government Complex will be developed in an area of 45.129 Acres. The Project comprises of 6 Buildings: CM's Office, Assembly, and 4 Office Blocks. The Total Built-up area after expansion is 1,28,644.40 Sq.m., Green area is 27,797.18 Sq.m. The amenities to be provided includes Sewage Treatment Plant (STP), Health Center, Crash Bay, D.G. Sets for emergency supply – 8 x 1500 KVA & 1 x 1000 KVA etc. The Project details are as follows:

Sl. No.	Description	E.C Order dated 09.02.2016	Proposed Expansion / modification	After Expansion /modification
I	Building Details:			
	Land Area - Buildings	27.082 acres	-	27.082 acres
	Land Area -Public facilities	18.047 acres	-	18.047 acres
	Total Site Area	45.129 acres (1,82,632.21 sq.m)	-	45.129 acres (1,82,632.21 sq.m)
	No. of buildings	6	-	6
	Building configuration	G+1 (5 buildings) G +2 (Assembly building)	2 more floors in all buildings	G+3 (5 buildings) G +3 (Assembly building)
II	Project Cost	Rs.180 Crores.	Rs.570Crores.	Rs.750 Crores.

III	LAND USE PATTERN			
	Total Land Area	1,82,632.21	-	1,82,632.21
	Roads Area	44,000.27	8,458.73	52,459
	Greenery Area	23,587.75	4,209.43	27,797.18
	Parking Area	40,444.57	-	40,444.57
IV	BUILT AREA			
a.	Secretariat Buildings- 1,2,3,4 &5			
	1 st Building	9525.66	10525.34	20051.00
	2 nd Building	9525.66	10569.34	20095.00
	3 rd Building	9525.66	10685.34	20211.00
	4 th Building	9525.66	10685.34	20211.00
	5 th Building	9525.66	10685.34	20211.00
	Total Built Up Area for all 5 Buildings	47,628.30	53150.7	100779.00
b.	Assembly Building			
	Total built up area of Assembly Building	8436.83	9988.17	18425.00
	Total Built Up Area for all 6 buildings	56065.13	63138.87	119204.00
c.	Utility/Other buildings Area	1424.28	5940.72	7365.00
d.	Security Buildings	1166.02	909.38	2075.40
	Total Built up Area	58655.43	69988.97	128644.40

IV. The source of fresh water is from Velagapudi. The total water requirement during occupational stage is 1600 KLD. Out of that, fresh water requirement is 1000 KLD & treated waste water recycled is 600 KLD. Quantity of sewage generated is 780 KLD and it shall be treated in a STP of capacity 1000 KLD. The treated waste water shall be used for flushing the toilets, AC makeup and development of greenery. The Garbage (5.0 TPD) generated is to be sent to Municipal Solid Waste facilities; used oil and used batteries are to be sent to Authorized Recyclers.

V. The proposal has been examined and processed in accordance with EIA Notification, 2006 & its amendments thereof. The State Level Expert Appraisal Committee (SEAC), A.P examined the proposal in its meeting held on 03.05.2016. Representatives of project proponent attended the meeting and made presentation. The committee appraised the project in detail and recommended for **issue of EC amendment** for expansion and modification of Interim Government complex buildings-(i.e. additional two more floors in all six buildings). The State Level Environment Impact Assessment Authority (SEIAA), A.P., in its meeting held on 11.05.2016 examined the proposal and agreed with the recommendations of SEAC, A.P., and decided to **issue EC amendment** for expansion and modification of Interim Government complex buildings-(i.e. additional two more floors in all six buildings). The prior Environmental Clearance issued vide Order No. SEIAA/AP/GNT/CON/01/2016/18, dated: 09.02.2016 by the SEIAA, A.P. is hereby amended for the proposals, as mentioned at Para No. III under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following special, specific and general conditions:

PART-A: SPECIAL CONDITIONS:

1. The project falls within the "Greenfield Capital City, Amaravati" which was accorded Environmental Clearance vide Order No. SEIAA/AP/GTN – 151/2015, dated 09.10.2015 and

the Project Proponent shall comply with the EC conditions applicable to this construction project.

2. The Project proponent shall provide adequate parking space for vehicles of staff and visitors as committed in EMP i.e VIP parking 4 wheelers: 200 Nos, Parking for 4 wheelers: 1050 Nos. Parking for 2 wheelers: 650 Nos, Cycle Parking: 500 Nos. and parking for 30 buses.
3. The proponent shall provide the Sewage Treatment Plant (STP) of 1000 KLD. As the treated effluent is proposed for recycle, suitable disinfection system is to be provided in addition to the STP.
4. Dual plumbing system to be provided for reuse of treated effluent for flushing and other uses.
5. Solar Energy systems to be planned to utilize at least one third of the roof area to generate 1.2 MW of Solar Power as committed. The proponent shall spend atleast Rs 700 lakhs towards instillation of solar power system as committed in EMP
6. The building shall be designed for compliance with earth quake resistance and resisting other natural hazards.
7. The proponent shall use of fly ash based products for construction, such as cement or concrete, fly ash bricks or tiles or clay fly ash bricks, or bricks, blocks or tiles or cement fly ash bricks or blocks or similar products or a combination or aggregate of them as required under MOEF notification S.O.763(E) dt 14.9.1999 amended thereof.
8. The proponent shall use fly ash for filling/ leveling purposes as required under MOEF notification S.O.763(E) dt 14.9.1999 amended thereof.
9. Provision for Rain Water Harvesting (RWH) is to be made for collection, usage and also for ground water table maintenance.
10. The proponent shall use only LED lights in the common areas and internal roads.
11. The proponent shall ensure availability of funds towards operation and maintenance expenditure of the STP.
12. The proponent shall obtain required clearances if any from all regulatory Departments including Fire Department, before starting the construction.
13. The proponent shall develop green cover in an area not less than 10% of complex area in addition to green cover in set-back areas.
14. The proponent shall utilize excess treated waste water after recycling for watering of avenue plantation in the area.

PART-B SPECIFIC CONDITIONS:

I. CONSTRUCTION PHASE:

- i. Provision shall be made for the housing of the construction labour within/ nearby the site with all necessary infrastructure and facilities such as safe drinking water, fuel for cooking, mobile toilets, mobile STP, medical health care, crèche etc., The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- ii. A First Aid Room shall be provided in the project both during construction and operation of the project.
- iii. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- iv. 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.

- v. 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.
- vi. 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.
- vii. Any hazardous waste including biomedical waste, if any, should be disposed of as per applicable Rules & norms with necessary approvals of the Andhra Pradesh Pollution Control Board.
- viii. The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to E (P) Rules prescribed for air and noise emission standards.
- ix. Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- x. Ambient noise levels should conform to the residential standards both during day and night as notified by the MoEF&CC, GOI from time to time. 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 the CPCB.
- xi. Pre fabricated/ ready made blocks/ Ready mixed concrete must be used in building construction.
- xii. Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.
- xiii. Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project, if any.
- xiv. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xv. 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.
- xvi. Minimum use of glass shall be made to reduce the electricity consumption and load on air-conditioning. If necessary, high quality double glass with special reflective coating in window is to be used.
- xvii. Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- xviii. Adequate measures to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.
- xix. 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.
- xx. 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.

- xxi. 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.

II. Occupational Phase:

- i 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 SEIAA before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms & standards of the Andhra Pradesh Pollution Control Board. Sewage Treatment Plant should be monitored on a regular basis. No waste water shall be discharged out side the premises until outlet is connected to public sewer line with terminal treatment facility.
- ii Rain water harvesting for roof run-off should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.
- iii The solid waste generated should be properly collected & segregated and will be sent for disposal as per Solid Waste Management Rules, 2016 and Construction and Demolition Rules , 2016.
- iv The D.G. Sets shall be provided with acoustic enclosures and adequate stack height as per CPCB norms. The fuel used for the diesel generator sets should be low sulphur diesel and should conform to E (P) Rules prescribed for air and noise emission standards.
- v Any hazardous waste including biomedical waste should be disposed of as per applicable Rules & norms with necessary approvals of the Andhra Pradesh Pollution Control Board.
- vi The greenery design along the periphery of the site shall achieve attenuation factor conforming to the day and night noise standards for the prescribed land use by the MoEF&CC, GOI/CPCB. The open spaces inside the complex should be suitably landscaped and covered with vegetation of indigenous variety. 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.
- vii Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.
- viii Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid systems or fully solar system for a portion of the complex should be provided by utilizing atleast 1/3rd roof area for solar energy system to generate 1.2 MW of solar power as committed.
- ix Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Visitors and staff Parking shall adhere to Master Plan standards.
- x Adequate number of parking spaces shall be provided for visitor vehicles–The proponent shall provide public convenience facilities such as toilets, waiting rooms etc. for the visitors to the complex so as to maintain cleanness/hygienic conditions in the surroundings of the project

- xi The proponent shall comply with Energy Conservation Practices, Energy efficient practices and energy audit practices. Green building concepts shall be adopted as stipulated in the EC accorded to Capital City Project. 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.

PART – C. GENERAL CONDITIONS:

- i. **This order is valid for a period of 7 years.**
- ii. “Consent for Establishment” shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act .
- iii. The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order & monitoring reports in hard and soft copies to the SEIAA and Ministry’s Regional office, Chennai on 1st June and 1st December of each calendar year.
- iv. Officials from the Regional Office of MoEF&CC, Chennai who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office, MoEF&CC, Chennai.
- v. In the case of any change (s) in the scope of the project, the project would require a fresh appraisal by this SEIAA. No further expansion or modifications in the project shall be carried out without prior approval of the SEIAA, AP.
- vi. The project proponent shall submit the copies of the amended environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- vii. The proponent shall obtain clearance from Fire Department. All other statutory clearances shall be obtained, as applicable by project proponents from the competent authorities.
- viii. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded amended environmental clearance and copies of clearance letters are available with the Andhra Pradesh Pollution Control Board. The advertisement should be made within 7 days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of MOEF&CC at Chennai.
- ix. The funds earmarked for environmental protection measures (Capital cost - Rs. 2235 Lakhs and Recurring cost Rs. 188.0 Lakhs/ annum) should be kept in separate budget head and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA and Ministry’s Regional Office located at Chennai.

- x. Any appeal against this amended Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xi. The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xii. Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986 without any prior notice.
- xiii. 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.

Sd/-
MEMBER SECRETARY,
SEIAA, A.P.

Sd/-
MEMBER,
SEIAA, A.P.

Sd/-
CHAIRMAN,
SEIAA, A.P.

To
"APCRDA & CA-Interim Government Complex Buildings, Amaravati"
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Copy to:

1. The Chairman, SEAC, A.P. for information.
2. The Member Secretary, APPCB for information.
3. The EE, RO: Guntur, APPCB for information.
4. The Regional Officer, MOEF&CC, GOI, Chennai for information.
5. The Secretary, MOEF&CC, GOI New Delhi for kind information.
6. Monitoring cell, MoEF&CC, GOI, New Delhi for information.

//T.C.F.B.O//


JOINT CHIEF ENVIRONMENTAL ENGINEER (EC)
(UH-III)

