Tele/Mob : +91 9493515769
: 2938 (Mil)
Email : pd_wagholi@awhosena.in

Army Welfare Housing Organisation
Near HQ Dakshin Maharashtra and Goa Sub Area
Jijamata Marg, Pune Camp
Pune-411001

B/03001/25/Wagholi-Pune/PH-II/EC/AWHO

07 Mar 2025

To,

Chairman, SEIAA
Environment Department,
15th Floor, New Administrative Building,
Mantralaya, Mumbai-400032

SIX MONTHLY COMPLIANCE REPORT FOR PERIOD OF APRIL 2024 TO SEPTEMBER 2024 OF ARMY WELFARE HOUSING ORGANIZATION LOCATED AT GAT NO. 1454/1 + 2 & 1455 BY M/S ARMY WELFARE HOUSING ORGANIZATION.

Ref : Environmental Clearance Letter No SEAC-2013/CR-29/TC-3 dated 23rd December 2013, for which further expansion was obtained having Environmental Clearance Letter Identification No. SEIAA-CC-0000000200 dated 12th March 2018.

Dear Sir/Madam,

1. As per the condition laid down in the Environmental Clearance Letter, we are submitting herewith six-monthly compliance report of our Township Project located at Village Wagholi, Taluka Haveli, District Pune, Maharashtra, by M/s. Army Welfare Housing Organization for period of April 2024 to September 2024.

2. Hope this is in line with your requirement.

Thanking you,

ARMY WELFARE HOUSING ORGANISATION WAGHOLI, PUNE

Yours faithfully,

(PH Reddy)
Colonel
Project Director
AWHO Wagholi, Pune
For Army Welfare Housing Organisation

CC: 1. MPCB -Member Secretary, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Sion, Mumbai, Maharashtra 400022.

SIX MONTHLY COMPLIANCE

REPORT OF

RESIDENTIAL AND COMMERCIAL PROJECT

AT

GAT NO. 1454/1 + 2&1455

VILLAGE -WAGHOLI, TALUKA

HAVELI, DIST- PUNE,

MAHARASHTRA

BEING DEVELOPED BY

ARMY WELFARE HOUSING ORGANIZATION

FOR

APRIL 2024 TO SEPTEMBER 2024

TABLE OF CONTENTS

Sections	Particulars	Page No.
Section 1	Purpose of the Report	4
Section 2	Project Details	4
Section 3	Present Site Conditions	4
Section 4	Post Environment Clearance Compliance Report	5
Section 5	Monitoring and Analysis	13

LIST OF ANNEXURES

Annexures	Particulars	Page No.
Annexure 1A	Environmental Clearance Letter dated 23.12.2013	14
Annexure 1B	Environmental Clearance Letter dated 12.03.2018	23
Annexure 2	Copy of Consent to Establish	37
Annexure 3	Environmental Monitoring Report	43
Annexure 4	Latest Environmental Statement (Form V)	49

Section1: Purpose of the Report

As per EIA Notification 2006 and Condition mentioned in General EC, it is mandatory to submit six monthly compliance report to show the status & compliance of all the conditions mentioned in EC letter, along with monitoring of various environmental parameters. Therefore, based on the general conditions mentioned in EC letter detail compliance report is prepared.

Section 2: Project Details

Project is a residential and commercial project developed by Army Welfare Housing Organization, to cater to the needs of serving/retired Army personnel and their widows and families, wherein infrastructure facilities such as water supply, power supply and communication facilities are proposed. The details of the project are as per EC attached herewith as **Annexure 1A & 1B**.

Section 3: Current Status

Sr. No.	Name of Buildings	No. of Buildings	Current Status
1.	A	1 Building	P+14
2.	B	1 Building	P+14
3.	C	1 Building	P+14
4.	D	1 Building	P+14
5.	E	1 Building	P+14
6.	F	1 Building	P+14
7.	G	1 Building	P+14
8.	H	1 Building	P+14
9.	J	1 Building	P+14
10.	K	1 Building	P+14
11.	L	1 Building	P+14
12.	M	1 Building	P+14
13.	T (commercial)	1 Building	G+1
14.	Parking	1 Building	B+S

15.	Club House	1 Building	G+1

Sr. No.	Status	Construction Area (in Sq.m)
1.	Total Construction Area as per EC	1,60,100.37
2.	Total Construction Area Completed till September 2024	134453.68

Section 4: Post Environment Clearance Compliance Report

The proposal has been considered by SEIAA in its 117th meeting and 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:

Sr. No.	EC Conditions	Compliance Status
Specific Conditions		
I	PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.	Complied. The IOD was submitted in 117th SEIAA meeting.
II	PP to submit affidavit that no occupation will be given till sustainable water supply and drainage connection is obtained to the project site.	Complied. Affidavit was submitted.
III	PP to submit layout of storm water drain up to the final disposal point showing invert levels of chambers.	Complied. Layout of storm water drain up to the final disposal point showing invert levels of chambers was submitted.
IV	PP to submit revised details of design of STP with respect to sewage load along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria: PP to submit detailed calculation for the disinfection of the treated STP water: PP to submit cross section drawing of STP showing dimensions and ground level: PP to mark the area required for STP on master layout with dimensions: PP to ensure STP is open to sky and above ground .	Condition is noted and complied

V	PP informed that they have used soak pits with septic tank for labour camp, PP to use only septic tanks for labour camp.	Condition is noted and complied
VI	PMRDA/Planning Authority will not grant occupation certificate unless sustainable water supply is made available to the project.	Condition was noted and complied.
VII	No further request for additional area sanction will be entertained unless there is firm commitment of sustainable water supply form identified source.	Condition is noted
General Conditions		
I.	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.	E- waste is being disposed off through an authorized vendor as per E-waste (Management and Handling) Rules, 2016.
II.	The occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.	Condition is noted and agreed.
III.	The environmental clearance is issued subject to obtaining NOC from Forestry and Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable and this environment clearance does not necessarily implies that Forestry and Wild life clearance granted to the project which will be considered separately on merit.	Condition is noted
IV.	PP has to abide by the conditions stipulated by SEAC and SEIAA	Condition is noted. We have abided by conditions stipulated by SEAC and SEIAA
V.	The height, construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body and it should ensure the same along with survey number before approving layout plan and before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the	Condition is noted

	approved development plan of the area.	
VI.	If applicable for Consent for Establishment shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	Consent to Establish obtained having Vide No. Format 1.0/BO/ROHQ/PN-22566-14/CE/CC-11992 dated 15.12.2014 attached as **Annexure 2**
VII.	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Condition is noted
VIII.	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	Drinking water and mobile toilets were provided for labors on 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.	The solid waste was segregated and recyclable material sold to recyclers and inert material was used for site leveling.
X.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	All construction waste was collected and segregated properly at site and most of it reused for construction activity.
XI.	Arrangement shall be made that waste water and storm water do not get mixed	Separate drainage and storm water system / network was provided to ensure wastewater and storm water do not get mixed.
XII.	All the topsoil excavated during construction activities should be stores for use in horticulture/landscape development within the project site	Yes, We were storing excavated topsoil, same was used for horticulture / landscape development within the project site.
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.	Construction debris was used for base preparation of the road and for site leveling.

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.	We planted trees as per Local planning authority as they have set up a garden department to ensure compliance guidelines.
XV.	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	Condition is noted
XVI.	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into ground water	Condition is noted. This was being ensured.
XVII.	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	Used oil generated at site was disposed through MPCB authorized vendors.
XVIII.	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	We were using low Sulphur diesel type DG during construction phase, and it was conforming to Environment (Protection) rules prescribed for Air and Noise emission standards.
XIX.	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken	Agreed to comply
XX.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours	Construction vehicles were checked for PUC certificate before entry.
XXI	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB	Care was taken to maintain the noise level within limits at site. Construction activities were limited to daytime only. Noise shields were provided for heavy construction equipment. PPE is provided to labors.

XXII	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August 2003. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations)	There is no Thermal power station within the 100 Km of the site.
XXIII	Ready mixed concrete must be used in building construction	We were using Ready Mix Concrete.
XXIV	Storm water control and its re-use as per CGWB and BIS standards for various applications	Agreed to comply
XXV	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred	Practices like use of pre mix concrete, curing and ponding were being referred.
XXVI	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority	Condition is noted.
XXVII	The installation of the Sewage Treatment Plant (STP) should be certified by an independent experts and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Discharge of this unused treated effluent, if any should be discharge in sewer line. Treated effluent emanating from STP shall be recycled /refused to the maximum extent possible. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odor problem from STP	One STP have been installed. Treated water was reused for flushing & gardening. Discharge of unused treated affluent shall be conforming to the norms of MPCB.
XXVIII	Permission to draw ground Water shall be obtained from the competent Authority prior to construction/operation of the project.	Condition is noted. Agreed to comply
XXIX	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water	Dual plumbing was used for separation of gray and black water
XXX	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.	Low flow fixtures were provided in toilets to minimize wastage of water
XXXI.	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Condition is noted
XXXII.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	We were adhering to Energy Conservation Building code.

XXXIII.	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.	Condition is noted
XXXIV.	Diesel power generating sets proposed as source of backup 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. l986, The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	DG set provided was of enclosed type. Stack provided is as per MPCB norms.
XXXV.	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.	We ensured that noise was not exceeding the prescribed standards
XXXVI.	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.	Condition was noted. All parking was internalized and no public space was being utilized.
XXXVII.	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.	We were adhereing to energy Conservation Building Code.
XXXVIII.	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Condition was being complied.
XXXIX.	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.	Dedicated site engineer and supervisory staff was appointed to take care of the monitoring and overall implementation.

XL.	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.	Condition was noted. Copies Environmental Clearance attached as Annexure **1A** and **1B**.
XLI.	Six monthly monitoring reports should be submitted to the Department and MPCB.	Condition is noted. Agreed to comply
XLII.	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.	STP, MSW disposal Facility have been provided on site.
XLIII.	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.	OWC manure was used for gardening. No wet garbage was disposed off outside the premises.
XLIV.	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	Condition was noted
XLV.	A complete set of all the documents submitted to Department should be forwarded to the MPCB.	Condition was 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.	Condition as noted
XLVII.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Condition was noted and complied
XLVIII.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be 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.	Separate funds had been allocated for implementation of environmental protection measures/EMP.
XLIX.	The project management shall advertise at least in Two local newspapers widely, circulated in the	Condition was noted and complied

	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 and may also be seen at Website at http://ec.maharastra.gov.in	
L	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department on 1st June & 1st December of each calendar year.	Condition is noted. Agreed to comply.
LI	A copy of the clearance letter shall be sent by proponent to the 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.	Condition was noted and 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 same 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.	Condition was noted
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.	Condition is noted. Agreed to comply
LIV	The environmental statement for each financial year ending 31st 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	Environmental Statement with UAN NO MPCB ENVIRONMENT_STATEMENT-0000077083 dated 07.03.2025 attached as **Annexure 4**

	also be sent to the respective Regional Offices of MoEF by e-mail.	

Section 5: Monitoring and Analysis

Monitoring of Air quality, Water quality, Soil quality, Noise level at construction site. Monitoring was done and samples were collected as per standard norms. All samples were analyzed in NABL accredited laboratory as per CPCB guidelines. The details of sampling parameters were given in following table.

Sr. No.	Environmental Components	Monitoring Parameters
1	Air	PM_{10}, $PM_{2.5}$, SO_2, NO_2, O_3, Pb, CO, NH_3, C_6H_6, Benzo (a) Pyrene – Particulate Phase only, As, Ni
2	Drinking Water	Colour, Odour, Taste, Turbidity, pH, TDS, Total Alkalinity, Total Hardness, Ca, Mg, Cl^-, SO_4, NO_3, Fe, Mn, F, Pb, Cu, Zn, Cr^{6+}, Residual Chlorine, Al, Cd
3	Noise	Leq
4	Soil	pH, Electrical Conductivity, Total Nitrogen as N, Phosphate as P, Potasium as K, Exchangeable Calcium as Ca, Exchangeable Magnesium as Mg, Exchangeable Sodium as Na, Organic Matter, Texture
5	Treated Water	pH, BOD, Total Suspended Solids, COD, Oil and Grease.

Monitoring reports are attached as **Annexure 3** which indicates that parameters of all environmental components are within standard limit and there is no pollution at site.

Govt. NOC

Govt. NOC

Government of Maharashtra

SEAC-2013/CR-29/TC-3
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032
Dated: 23December, 2013

To,
Army Welfare Housing Organisation
South Hutments, Kashmir House,
Rajaji Marg, New Delhi- 110 011

Subject: **Environmental clearance for the proposed Residential Project Army Welfare Housing Organisation at Gat No.1454/1-2 1455(pt), Wagholi, Dist. Pune by Army Welfare Housing Organisation**

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 72nd meeting decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 63rd Meeting.

1. It is noted that the proposal is for grant of Environmental Clearance for the proposed Residential Project Army Welfare Housing Organization at Gat No.1454/1-2 1455(pt), Wagholi, Dist. Pune. SEAC considered the project under screening category 8(a) B2 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of the Project	Army Welfare Housing Organisation
Project Proponent	Army Welfare Housing Organization
Consultant	Saitech Research & Development Organization
Type of Project	Residential & Commercial
Location of the project	Gat No. 1454/1+2& 1455 Wagholi, Pune
Total plot area (Sq.m) Deductions Net plot area	Plot Area – 84643 m² Deductions – 14626.72 m² Net Plot Area - 70016.28 m²
Permissible FSI	0.90 Permissible Built up = 0.90 x 84643 = 76178.70 m²
Proposed Built –UP Area (Non Premium FSI & Premium FSI)	Non Premium FSI area (m²) : 76104.49 m² Premium FSI area (m²) : 59303.59 m2 Total Built up area (m2) : 135408.08 m2
Ground – coverage percentage (%) (Note : percentage of plot not open to sky)	24108.35 m² 28.48 % of Total plot area (84643.00 m²) 34.50 % of Net Plot Area (70016.28 m²)

Estimated cost	Rs. 293 Cr.
No. of building & its configuration (s)	Total Buildings = 17 Nos. Buildings A, B, C, D – 3BHK Small (S + 11) Buildings E,F – 4 BHK Big (S + 11) Buildings G,H,I,J – 2 BHK Big (S+11) Buildings K & L – 2 BHK Small (S+11) Buildings M,N,O,P – 3 BHK Big (S+11) Building T –2 BHK Small (S+11) Total no. of buildings - 17 Total No of Shops – 10 Nos.
Number of tenants and shops;	Total Tenements – 880 Nos. , Total No of Shops – 10 Nos.
Number of expected residents / users	3400 Nos.
Tenant density per hector	Allowed -250. Provide – 105
Height of the building(s)	Allowed Max. – 36.0 m , Provided - 36.0 m.
Right of way	18 m
Turning radius	7.5 m. wide Road for Fire Tender with 9.0 m. Turning Radius
Total Water Requirement	Dry season : Fresh water (CMD) : 396.00 m^3/day of Source: Grampanchayat Recycled water (CMD): 261.10 m^3/day Total water Requirement (CMD): 657.98 m^3/day Landscape :- 62 m^3/day Fire fighting (Cum): 200u m /each bldg Wet Season Freshwater (CMD) : 396.00 m^3/day of Source: Grampanchayat Recycled water (CMD): 261.10 m^3/day Total water Requirement (CMD): 657.98 m^3/day Landscape :- 62 m^3/day Fire fighting (Cum): 200u m /each bldg
Rain Water Harvesting (RWH)	Level of the Ground water table – Approx. 1.5 to 5.0 m below the ground level. Size, no of recharge pits and Quality- 40 Nos. Size of Recharge pits – 1.5 x 1.5 x 1.5m Size , nos of recharge Bore and quantity – 9082.92 m^3/Year Budgetary allocation (Capital cost and O & M cost)- Capital cost : 42 lakh O & M Cost : 5 lakh
Strom water drainage	Quantity of storm water - Volume – 9082.92 m^3/Year Size of SWD - Size of Recharge pits. – 1.5 x 1.5 x 1.5m.
Sewage and waste water	Sewage generation (CMD) – 536.38 CMD STP technology – MMBR(Moving Media Bio Reactor) Capacity of STP (CMD) – 540 CMD Location of the STP – Refer Storm & drainage layout DG sets (during emergency) - 160 KVA x 2 No. Budgetary allocation (Capital cost and O & M cost) – Capital cost: 75 lakh O & M Cost : 25 lakh
Solid waste Management	Waste generation in the pre Construction and Construction phase Waste generation –2000 m^3 Quantity of the top soil to be preserved – Use For Landscaping Disposal of the construction way debris - Use for Leveling

	Waste generation in the operation phase: Dry waste (Kg/day: 860 Kg/day Wet waste (Kg/day): 1200 Kg/day E – waste (Kg/month): Not Applicable Hazardous waste (Kg/month): Spent oil – 80.0 Lit/ yr Biomedical waste (Kg/month) (If applicable): Not Applicable STP Sludge (Dry sludge) (Kg/day): 48.2742 Kg/Day (100% Dry) Mode Of Disposal of Waste: Dry waste (Kg/day): Sold Out Wet waste (Kg/day): Organic waste converter • Hazardous waste (Kg/month): Authorized Reprocess or STP Sludge (Dry sludge) (Kg/day): Used as Manure Area requirement: Location (s)& total area provided for the storage & treatment of solid Waste; 60 m^2 Budgetary allocation(capital Cost & O&M cost) Capital cost: 22 Lakh O & M Cost : 18 Lakh / Year
Green Belt Development	Total RG area: 8352 m^2 i.e. about 10.2% of net plot area RG area under green belt: 8352 m^2 Plantation: Number of trees to be planted in the ground RG: 1059 Nos. Number of trees to be planted in the podium RG: - 7520 m^2 Budgetary allocation(capital Cost& O& M Cost) - Capital cost: 80 lakh O & M Cost 10 Lakh / Year
Energy	Power Supply: Maximum demand – 4933.33 KVA Connected Demand – 4440 KW. Source - Maharashtra State Electricity Distribution Company Limited(MSEDCL) Energy saving by non-conventional method: Energy Saving measures – CFL, LED, Solar etc Details Calculation & % of saving – 101908 K WH /Annum & 32.66% Capital cost - Rs. 97 Lacks O & M Cost. - Rs. 3.4 Lakh/Year DG Set. Number and capacity of the DG sets to be used – 2 Nos. of 60KVA – 1 No. With Canopy. Type of fuel used – Diesel.
Traffic Management	Parking details: Number & area of Stilt – 8154.51 Number & area of basement – 10988.76 m^2 Number & area of podium - 7520m^2 Total parking area - 23073.58 m^2 Area per car – Stilt: 12.50 sqm, Podium: 23 sqm, Basement: 32 sqm 2- Wheeler – 1336, 4-Wheeler – 665 Width of all Internal road (m): 9.00 mtr.
Environmental Management plan Budgetary Allocation	Construction Phase (With break up): Capital Cost – STP – Rs. 75 Lakh, RWH – Rs. 42 Lakh, MSW – Rs. 22 Lakh Solar system – Rs 97 Lakh, Landscape – Rs. 80 Lakh O & M cost(Please ensure manpower and other details)- STP – Rs. 25 Lakh / Year ,RWH – Rs. 5 Lakh / Year

	MSW – Rs. 18 Lakh/Year, Solar system – 3.4 Lakh/Year Landscape – 10 Lakh / Year Quantum & generation of Corpus Fund and Commitment - Certain amount will be recovered for individual flat owners at the time of sale & will be given to society Responsibility for Further O&M - 2 years

3. The proposal has been considered by SEIAA in its 63rd meeting & 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 :

(i) This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, 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 Authority (SEIAA) approved the proposed land use.

(ii) The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body or it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.

(iii) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.

(iv) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.

(v) 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 Para 2. Prior certification from appropriate authority shall be obtained.

(vi) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche and First Aid Room etc.

(vii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.

(viii) The solid waste generated should be properly collected and segregated dry-non solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.

(ix) 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.

(x) Arrangement shall be made that waste water and storm water do not get mixed.

(xi) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.

(xii) 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.

(xiii) Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.

(xiv) Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

(xv) 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.

(xvi) Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.

(xvii) Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.

(xviii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.

(xix) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.

(xx) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should confirm to applicable air and noise emission standards and should be operated only during non-peak hours.

(xxi) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.

(xxii) 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 Station).

(xxiii) Ready mixed concrete must be used in building construction.

(xxiv) The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire fighting equipments etc as per National Building Code including measures from lightning.

(xxv) Storm water control and its re-use as per CGWB and BIS standards for various applications.

(-)

(xxvi) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

(xxvii) The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority

(xxviii) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Discharge of this unused treated affluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/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

(xxix) Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc with due permission of MPCB.

(xxx) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.

(xxxi) Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.

(xxxii) 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.

(xxxiii) Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.

(xxxiv) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.

(xxxv) Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible 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.

(xxxvi) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.

(xxxvii) Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the

(xxxviii) building shall be restricted to the permissible levels to comply with the prevalent regulations.

(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.

(xl) 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.

(xli) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

(xlii) 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.

(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.

(xliv) Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.

(xlv) A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.

(xlvi) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.

(xlvii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xlviii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as 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.

(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 and may also be seen at Website at [illegible]

(l) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.

(ii) A copy of the clearance letter shall be sent by proponent to the 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.

(iii) 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 same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, NOx (ambient levels as well as stack emissions) or critical sector 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.

(iii) 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.

(iv) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as 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.

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 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, 1986.

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 other administrative reason.

7. **Validity of Environment Clearance**: The environmental clearance accorded shall be valid for a period of 5 years.

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.

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.

10. Any appeal against this environmental clearance shall lie with the National Green Tribunal , Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Dehli – 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

(R.A. Rajeev)
Principal Secretary,
Environment department &
MS, SEIAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.

2. Additional Secretary, MOEF, 'Paryavaran Bhawan' CGO Complex, Lodhi Road, New Delhi – 110510

3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.

4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016), (MP).

5. Commissioner, Pune Municipal Corporation, Pune.

6. Regional Office, MPCB, Pune

7. Collector, Pune

8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

9. Select file (TC-3).

(EC Uploaded on - 26th Dec-2013

सत्यमेव जयते

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:March 12, 2018

To,
Col. R. P. S. Rawat
at Gat No. 1454/1+2&1455

Subject: Environment Clearance for project by M/s Army Welfare Housing Organisation

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-III, Maharashtra in its 57th Meetingth meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 117th meetings.

2. It is noted that the proposal is considered by SEAC-III under screening category B1 as per EIA Notification 2006.

Brief Information of the project submitted by you is as below :-

1.Name of Project	Army Welfare Housing Organisation
2.Type of institution	Private
3.Name of Project Proponent	Col. R. P. S. Rawat
4.Name of Consultant	M/s Saitech Research & Development Organization
5.Type of project	Township Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	Gat No. 1454/1+2&1455
9.Taluka	Haveli
10.Village	Wagholi
11.Area of the project	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 160100.37
13.Note on the initiated work (If applicable)	69214.96m2 -As per old EC dated 23rd December,2013(SEAC-2013/CR-29/TC-3)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	84643.00
16.Deductions	22929.52
17.Net Plot area	61713.48
18.Proposed Built-up Area (FSI & Non-FSI)	**FSI area (sq. m.):** 96533.00
	Non FSI area (sq. m.): 63567.37
	Total BUA area (sq. m.): 160100.37

Government of Maharashtra

19.Total ground coverage (m2)	21266.68
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25.13 % of Total plot area and 34.46 % of Net Plot Area
21.Estimated cost of the project	3370000000

Government of Maharashtra

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable

23.Total Water Requirement

Dry season:	Source of water	Wagholi Grampanchayat
	Fresh water (CMD):	837
	Recycled water - Flushing (CMD):	242
	Recycled water - Gardening (CMD):	76
	Swimming pool make up (Cum):	1
	Total Water Requirement (CMD) :	518
	Fire fighting - Underground water tank(CMD):	210
	Fire fighting - Overhead water tank(CMD):	320
	Excess treated water	319
Wet season:	Source of water	Wagholi Grampanchayat
	Fresh water (CMD):	761
	Recycled water - Flushing (CMD):	242
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	1
	Total Water Requirement (CMD) :	518
	Fire fighting - Underground water tank(CMD):	210
	Fire fighting - Overhead water tank(CMD):	320
	Excess treated water	395
Details of Swimming pool (If any)	Dimension of Swimming Pool: 25m X 15mTotal water Requirement :375 m3Water requirement in KLD:1 m3/dayDetails of Plant & Machinery used for treatment of Swimming pool water: Details of quality to be achieved for swimming pool water and parameters to be monitored: Budgetary allocation (Capital cost and O & M cost)-Capital cost : Rs. 45.00 Lakh O & M Cost : Rs. 15.00 Lakh/Year	

Government of Maharashtra

24.Details of Total water consumed									
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

25.Rain Water Harvesting (RWH)	Level of the Ground water table:	Approx. 1.5 to 5.0 m below the ground level.
	Size and no of RWH tank(s) and Quantity:	1 no.68.72 X 11.6 meters.
	Location of the RWH tank(s):	1985 KLD
	Quantity of recharge pits:	18 Nos.
	Size of recharge pits :	3M Dia.
	Budgetary allocation (Capital cost) :	42.00 Lakh
	Budgetary allocation (O & M cost) :	5.00 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity : 270 m3 Flushing UG tank Capacity : 295 m3 Fire UG tank Capacity : 210 m3
26.Storm water drainage	Natural water drainage pattern:	-
	Quantity of storm water:	1743.12 m3/hr
	Size of SWD:	400 mm dia
27.Sewage and Waste water	Sewage generation in KLD:	655
	STP technology:	MMBR
	Capacity of STP (CMD):	1 no of 656 CMD
	Location & area of the STP:	831.35 m2
	Budgetary allocation (Capital cost):	50.00 Lakh
	Budgetary allocation (O & M cost):	35.00 Lakh/Year

Government of Maharashtra

28.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	35 kg/day
	Disposal of the construction waste debris:	Use for Leveling.
Waste generation in the operation Phase:	Dry waste:	941.45 kg/day
	Wet waste:	1404.30 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	58.95 kg/day
	Others if any:	NA
Mode of Disposal of waste:	Dry waste:	SWACH
	Wet waste:	Organic waste converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	NA
Area requirement:	Location(s):	-
	Area for the storage of waste & other material:	Storage Area- 38 m2 & Other Area- 44 m2
	Area for machinery:	38 m2
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	26.25 Lakh
	O & M cost:	7.55 Lakh/Year

Government of Maharashtra

29.Effluent Charecterestics					
Serial Number	**Parameters**	**Unit**	**Inlet Effluent Charecterestics**	**Outlet Effluent Charecterestics**	**Effluent discharge standards (MPCB)**
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			
Capacity of the ETP:		Not applicable			
Amount of treated effluent recycled :		Not applicable			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Not applicable			
Disposal of the ETP sludge		Not applicable			

Government of Maharashtra

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

31.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set-750 KVA	HSD-167 Lit/Hr	S-1	45	To be Provided	To be Provided
2	DG Set-625 KVA	HSD-128 Lit/Hr	S-2	45	To be Provided	To be Provided
3	DG Set-450 KVA	HSD-107 Lit/Hr	S-3	48	To be Provided	To be Provided
4	DG Set-450 KVA	HSD-107 Lit/Hr	S-4	48	To be Provided	To be Provided
5	DG Set-250 KVA	HSD-54 Lit/Hr	S-5	48	To be Provided	To be Provided

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	563 Lit/Hr	563 Lit/Hr
33.Source of Fuel		Bharat Petroleum Corporation Limited/Hindustan Petroleum		
34.Mode of Transportation of fuel to site		By Roadway		

35.Energy

Government of Maharashtra

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	90 KVA
	DG set as Power back-up during construction phase	75 KVA x 2 Nos.
	During Operation phase (Connected load):	9729.56 KVA
	During Operation phase (Demand load):	4277.53 KVA
	Transformer:	22KV/1250 KVA -5 Nos.
	DG set as Power back-up during operation phase:	750 KVA x 1 Nos, 625 KVA x 1 Nos, 450 KVA x 2 Nos. & 250 KVA x 1 No.
	Fuel used:	167 Lit/Hr for 750 KVA DG Set, 128 Lit/Hr for 625 KVA DG Set, 214 Lit/Hr for 450 KVA-2 Nos DG set & 54 Lit/Hr for 250 KVA DG Set
	Details of high tension line passing through the plot if any:	NA

Energy saving by non-conventional method:

- Providing solar lighting.
- Providing CFL lighting in all common areas such as corridor, toilets & ramps etc. Solar water heating.

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Providing solar lighting., • Providing CFL lighting in all common areas such as corridor, toilets & ramps etc	1728794.8 KWH/Annum
2	Solar Water Heating	293401.6 KWH/Annum

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided.
Water	-	STP will be installed & excess treated water used for flushing & gardening
Noise	-	Noise monitoring will be done in once a fortnight. Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
Solid Waste	-	Wet Waste will be treated in OWC. STP sludge will be Used as Manure after treatment in OWC Dry Waste will be given to SWACH

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	97.00 Lakh
	O & M cost:	3.40 Lakh/Year

38.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Government of Maharashtra

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air & Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50 Lakh/Year
3	Land Environment	Site Sanitation –Mobile toilets	0.50 Lakh/Year
4	Socio-economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches For Children, Food for children, Personal Protective Equipment	1.00Lakh/Year

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	-	50.00	35.00
2	RWH	-	42.00	5.00
3	MSW	-	26.25	7.55
4	Solar System	-	97.00	3.40
5	Landscaping	-	80.00	10.00
6	Swimming Pool	-	45.00	15.00
7	Safety Equipment	-	10.00	2.00
8	Post EC Monitoring	-	-	2.50
9	Dry Waste Management	-	-	5.59

39.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

40.Any Other Information

No Information Available

Government of Maharashtra

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	09-02-2016

3. The proposal has been considered by SEIAA in its 117th meeting & 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:

Specific Conditions:

I	PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
II	PP to submit affidavit that no occupation will be given till sustainable water supply and drainage connection is obtained to the project site.
III	PP to submit layout of storm water drain up to final disposal point showing invert levels of chambers.
IV	PP to submit revised details of design of STP with respect to sewage load along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria; PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross section drawing of STP showing dimensions and ground level; PP to mark the area required for STP on master layout with dimensions; PP to ensure STP is open to sky and above ground.
V	PP informed that they have used soak pits with septic tank for labour camp, PP to use only septic tanks for labour camp.
VI	PMRDA/Planning Authority will not grant occupation certificate unless sustainable water supply is made available to the project.
VII	No further request for additional area sanction will be entertained unless there is firm commitment of sustainable water supply from identified source.

General Conditions:

I	E-waste shall bedisposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.
II	The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.
III	This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.
IV	PP has to abide by the conditions stipulated by SEAC& SEIAA.
V	The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.

Government of Maharashtra

VI	If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
VII	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
VIII	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
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.
X	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
XI	Arrangement shall be made that waste water and storm water do not get mixed.
XII	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
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.
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.
XV	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.
XVI	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.
XVII	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
XVIII	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.
XIX	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.
XX	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
XXI	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.
XXII	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).
XXIII	Ready mixed concrete must be used in building construction.
XXIV	Storm water control and its re-use as per CGWB and BIS standards for various applications.
XXV	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
XXVI	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
XXVII	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 MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated affluent, if any should be discharge in the sewer line.Treated effluent emanating from STP shall be recycled/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.
XXVIII	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.
XXIX	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.
XXX	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.

XXXI	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.
XXXII	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
XXXIII	Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible 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.
XXXIV	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
XXXV	Noise should be controlled to 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.
XXXVI	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.
XXXVII	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 aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
XXXVIII	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
XXXIX	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.
XL	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.
XLI	Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.
XLII	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.
XLIII	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.
XLIV	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.
XLV	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.
XLVI	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.
XLVII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XLVIII	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as 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.
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 and may also be seen at Website at http://ec.maharashtra.gov.in.
L	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.

LI	A copy of the clearance letter shall be sent by proponent to the 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.
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 same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO2, NOx (ambient levels as well as stack emissions) or critical sector 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.
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.
LIV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as 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.

Government of Maharashtra

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 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 Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

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 other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

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.

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.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune),New Administrative Building, 1stFloor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri Satish.M.Gavai (Member Secretary SEIAA)

Copy to:

1. SHRI ANAND. B. KULKARNI, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI JOHNY JOSEPH, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER PUNE
10. MUNICIPAL COMMISSIONER SATARA
11. REGIONAL OFFICE MPCB PUNE
12. REGIONAL OFFICE MIDC PUNE
13. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
14. COLLECTOR OFFICE PUNE
15. COLLECTOR OFFICE SATARA
16. COLLECTOR OFFICE SOLAPUR

Government of Maharashtra

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : - 24010437/24020781/24014701

Fax : - 24044532 / 24023516

Email :- enquiry@mpcb.gov.in

Visit At:- http://mpcb.gov.in

Kalpataru Point, 3rd & 4th floor, Sion-Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400 022

Infrastructure/Orange/L.S.I

Consent order No: Format 1.0/BO/ROHQ/PN-22566-14/CE/CC- 11992 *Date:* ~~*10/2014*~~ 15/12/2014

To,

M/s Army Welfare Housing Organization,

Gat No. 1454/1+2 & 1455(part),

Wagholi, Dist. Pune.

Sub : Consent to Establish in Orange category for Building / construction project.

Ref : Minutes of Consent Committee meeting held on 17/10/2014

Your application:- CE1408000440, Date: 04/08/2014

For: Consent to Establish for Construction of Residential project.

Under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Municipal Solid Waste (Management & Handling) Rule 2000 and E-Waste (Management & Handling Rule 2011 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent to Establish is granted for a period upto:- **Commissioning of the unit or five years, whichever is earlier.**
2. The Proposed Capital investment of the Project is **Rs 293.0 Crs**. (As per CA certificate).
3. The Consent to Establish is valid for development of new Residential project by **M/s Army Welfare Housing Organization** at **Gat No. 1454/1+2 & 1455(part), Wagholi, Dist. Pune** on total plot area of **84,643.0 Sq. mtrs** and total construction built up area of **1,35,408.08 Sq. mtrs**. As per construction commencement certificate issued by local body.
4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge	Standards to be achieved	Disposal
1.	Trade effluent	Nil	NA	NA
2.	Domestic effluent	536.0 CMD	As per Schedule –I	60% shall be reused & recycled and remaining shall be discharged in municipal sewer.

5. **Conditions under Air (P&CP) Act, 1981 for air emissions:**

Sr. No.	Description of stack / source	Number of Stack	Standards to be achieved
1.	DG sets (60 x 2 KVA)	2	As per Schedule –II

6. **Conditions under Municipal Solid Waste (Management and Handling) Rule,2000**

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1.	Biodegradable Waste	1200.0	Kg/Day	OWC	Used as manure
2.	Non Biodegradable Waste	800.0	Kg/Day	Segregation	By sale
3.	STP Sludge	75.0	Kg/D	---	Used as manure

7. **This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.**

8. **This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.**

9. **The applicant shall comply with the conditions stipulated in Environment Clearance granted by GoM, vide no: SEAC-2013/CR-29/TC-3 dated 23rd December 2013.**

10. **PP shall submit an affidavit in Board's prescribed format within 15 days regarding the compliance of conditions of Environment clearance and Consent to Establish.**

11. **Consent to Operate will not be considered until Project Proponent provide adequate own land / farmers land with bilateral agreement for disposal of 40% treated effluent [Quantity of 40 % treated effluent =214.4 CMD, Land required @ rate 20CMD per Acer i.e 10.72 Acre] or connection to the drainage line, if provided by Local Body.**

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital) IAS
Member Secretary

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	586000.0	345298	26/06/2014	ICIC Bank

Copy to:

1. **Regional Officer, MPCB, Pune. And Sub-Regional Officer, Pune -II , they are directed to ensure the compliance of the consent conditions.**
2. **Chief Accounts Officer, MPCB, Mumbai.**
3. **CC/CAC desk- for record & website updation purposes.**

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) **A| As per your consent application, you have proposed to provide the sewage treatment system with the design capacity of 540.0 CMD**

B| The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

1	pH	Not to exceed	6.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l.
3	BOD 3 Days 27 degree C	Not to exceed	100 mg/l.
4	Detergent	Not to exceed	01 mg/l.

C| The treated domestic effluent shall be 60% recycled and reused for flushing, fire fighting and cooling of Air conditioners etc. The remaining shall be discharged into Municipal sewer/ utilized on land for gardening after conforming to above standards. The firm shall affix the separate meter for ensurance of 60% recycling of treated sewage and keep the records of the same. In no case effluent shall find its way to any water body directly /indirectly at any time.

2) **The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of water, works for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.**

3) **The firm shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.**

4) **In case, the water consumption of the project is not covered under the water consumption of local body, in that situation, the project proponent shall submit the CESS Returns in the prescribed format given under the provision of Water (Prevention & Control of Pollution) Cess Act, 1977 and Rules made thereunder for various category of water consumption.**

In case the water consumption is duly assessed under the quantity of water consumption of local body, the project proponent shall submit certificate to that effect from the concern local body with the request not to assess CESS on their water consumption, being already assessed on the water consumption of local body.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Domestic purpose	657.0

Schedule-II

Terms & conditions for compliance of Air & Noise Pollution Control:

1. **As per your application, you have proposed to erect following stack (s) and to observe the following fuel pattern-**

Sr. No.	Stack Attached To	Height in Mtrs. (Above roof top)	Type of Fuel	Quantity
1.	DG sets (60 x 2 KVA)	5.5	Diesel	22.0 Lit/Hr

* D.G. Set shall be operate only in case of power failure.

2. **The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:**

Particulate matter	Not to exceed	150.00 mg/Nm^3.

3. **The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.**

4. **The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary)**

5. **Conditions during construction phase:-**

a	**During construction phase, applicant shall provide temporary sewage disposal and MSW facility for staff and worker quarters.**
b	**During construction phase, the ambient air and noise quality should be closely monitored to achieve Ambient Air Quality Standards and Noise by the project proponent through MoEF approved laboratory.**
c	**Noise generating activity shall be carried out during day time only.**

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Establish	Rs. 10 lakh	15 days at Regional Office Pune.	Rs. 10.0 lakh for ensuring the compliance of consent conditions.	Upto Commissioning of the unit	Five years

Schedule-IV

General Conditions:

The following general conditions shall apply as per the type of the industry.

1) The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2) The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and environmental protection Act 1986 and Municipal Solid Waste (Management & Handling) Rule 2000 and E-Waste (Management & Handling Rule 2011.
3) Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
4) 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.
5) Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p. m and night time is reckoned between 10 p.m to 6 a.m.
   d) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   e) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
   f) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
   g) D.G. Set shall be operated only in case of power failure.
   h) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
   i) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
6) Solid Waste – The applicant shall provide onsite municipal solid waste processing system & shall comply with Municipal Solid Waste (Management & Handling) Rule 2000 & E-Waste (M & H) Rule 2011.
7) Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
8) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
9) The treated sewage shall be disinfected using suitable disinfection method.
10) The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st march in the prescribed Form-V as per the provision of rule 14 of the Environmental (Protection) Second Amended rule 1992.
11) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.**

GREEN CIRCLE, INC.
Integrated HSEQR Consulting Engineers, Scientists & Trainers
(Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)
(F. No. - 15018 / 06 / 2016 - CPW)
(ISO 9001, 14001 & 45001 Certified Organisation)

Report No: - GCI/V/LAB/G074/24-RS/24-25/May-00/0479 **Date: 13.05.2024**

ANALYSIS REPORT

Client details		**Sample Details**	
Name	Army Welfare Housing Organization	**Sample Code**	GCI/24/E16/AA1
Address	GAT No. 1454/1 + 2 & 1455 , Village -Wagholi, Taluka – Haveli District-Pune, Maharashtra	**Location**	As per SOP
		Date of Sampling	05.05.2024
Sampling Done By	Mr. Mukesh	**Date of Sample Received**	06.05.2024
Analysis Starts On	06.05.2024	**Sampling Instrument**	RDS, FPS
Analysis Completion On	10.05.2024	**Sampling Method**	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM_{10})	$\mu g/m^3$	76.4	100	IS 5182 : Part 23 : 2006
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	50.5	60	NAAQS Guidelines
3	Sulphur dioxide (SO_2)	$\mu g/m^3$	17.8	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	12.2	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m^3	0.68	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O_3	$\mu g/m^3$	12.4	100	NAAQS Guidelines
7	Lead as Pb	$\mu g/m^3$	BDL (<0.1)	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m^3	BDL (<1)	20	NAAQS Guidelines
9	Arsenic as As	ng/m^3	BDL (<1)	6.0	NAAQS Guidelines
10	Ammonia as NH_3	$\mu g/m^3$	BDL (<5)	400	NAAQS Guidelines
11	Benzene , C_6H_6	$\mu g/m^3$	BDL (<0.01)	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene	ng/m^3	BDL (<0.1)	1.0	Gas Chromatography

GREEN CIRCLE INC. BARODA

Authorized Signatory

Report No: GCI/V/LAB/G074/24-RS/24-25/May-00/0479 **Date: 13.05.2024**

ANALYSIS REPORT

Client details		**Sample Details**	
Name	Army Welfare Housing Organization	**Sample Code**	GCI/24/E16/AA2
Address	GAT No. 1454/1 + 2 & 1455 , Village -Wagholi, Taluka – Haveli District- Pune, Maharashtra	**Location**	As per SOP
		Date of Sampling	5.05.2024
Sampling Done By	Mr. Mukesh	**Date of Sample Received**	06.05.2024
Analysis Starts On	06.05.2024	**Sampling Instrument**	RDS, FPS
Analysis Completion On	10.05.2024	**Sampling Method**	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1	Particulate Matter (PM_{10})	µg/m³	84.6	100	IS 5182 : Part 23 : 2006
2	Particulate Matter ($PM_{2.5}$)	µg/m³	46.2	60	NAAQS Guidelines
3	Sulphur dioxide (SO_2)	µg/m³	32.3	80	IS 5182 : Part 2 : 2001
4	Oxides of Nitrogen (NO_X)	µg/m³	34.8	80	IS 5182 : Part 6 : 2006
5	Carbon Monoxide CO	mg/m³	0.61	2.0	IS 5182 : Part 10 : 1999
6	Ozone as O_3	µg/m³	13.5	100	NAAQS Guidelines
7	Lead as Pb	µg/m³	BDL (<0.1)	1.0	NAAQS Guidelines
8	Nickel as Ni	ng/m³	BDL (<1)	20	NAAQS Guidelines
9	Arsenic as As	ng/m³	BDL (<1)	6.0	NAAQS Guidelines
10	Ammonia as NH_3	µg/m³	BDL (<5)	400	NAAQS Guidelines
11	Benzene , C_6H_6	µg/m³	BDL(<0.01)	5.0	IS 5182 (Part 11):2006
12	Benzo (a) Pyrene	ng/m³	BDL (<0.1)	1.0	Gas Chromatography

GREEN CIRCLE INC. BARODA

Authorized Signatory

Report No:-GCI/V/LAB/G074/24-RS/24-25/May-00/0479 **Date: 13.05.2024**

ANALYSIS REPORT

Client details		**Sample Details**	
Name	Army Welfare Housing Organization	**Sample Code**	GCI/24/E16/AA3
Address	GAT No. 1454/1 + 2 & 1455 , Village -Wagholi, Taluka – Haveli District- Pune, Maharashtra	**Location**	As per SOP
		Date of Sampling	5.05.2024
Sampling Done By	Mr. Mukesh	**Date of Sample Received**	06.05.2024
Analysis Starts On	06.05.2024	**Sampling Instrument**	RDS, FPS
Analysis Completion On	10.05.2024	**Sampling Method**	IS 5182 : Part 5 : 1975

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1.	Particulate Matter (PM_{10})	$\mu g/m^3$	79.03	100	IS 5182 : Part 23 : 2006
2.	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	50.5	60	NAAQS Guidelines
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	19.6	80	IS 5182 : Part 2 : 2001
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	30.2	80	IS 5182 : Part 6 : 2006
5.	Carbon Monoxide CO	mg/m^3	0.63	2.0	IS 5182 : Part 10 : 1999
6.	Ozone as O_3	$\mu g/m^3$	11.6	100	NAAQS Guidelines
7.	Lead as Pb	$\mu g/m^3$	BDL (<0.1)	1.0	NAAQS Guidelines
8.	Nickel as Ni	ng/m^3	BDL (<1)	20	NAAQS Guidelines
9.	Arsenic as As	ng/m^3	BDL (<1)	6.0	NAAQS Guidelines
10.	Ammonia as NH_3	$\mu g/m^3$	BDL (<5)	400	NAAQS Guidelines
11.	Benzene , C_6H_6	$\mu g/m^3$	BDL(<0.01)	5.0	IS 5182 (Part 11):2006
12.	Benzo (a) Pyrene	ng/m^3	BDL (<0.1)	1.0	Gas Chromatography

GREEN CIRCLE INC. BARODA

Authorized Signatory

Report No:- GCI/V/LAB/G074/24-RS/24-25/May-00/0479 **Date: 13.05.2024**

ANALYSIS REPORT

Client Details			**Sample Details**	
Name	Army Welfare Housing Organization		**Sample Code**	GCI/24/E16/N1 – N3
Address	GAT No. 1454/1 + 2 & 1455 , Village - Wagholi, Taluka – Haveli District- Pune, Maharashtra		**Location**	As per SOP
			Quantity	NA
			Date of Measurement	5.05.2024
			Sampling Instrument	Sound Level Meter (HTC/SL-1352)
Measurement Done By		Mr. Mukesh	**Sampling Method**	HTC/SL-1352 Inst. Manual

NOISE MONITORING RESULTS

Sr. No.	**Location Name**	**Units**	**Day Time**		**Night Time**	
			Results	**MPCB Permissible Limit**	**Results**	**MPCB Permissible Limit**
1.	Near Security Gate	dB (A)	44.8	55	32.6	45
2.	Southwest Corner of the Site	dB (A)	40.8	55	29.8	45
3.	Northeast Corner of the Site	dB (A)	40.1	55	30.2	45

Limits: Maharashtra pollution Control Board has prescribed 55dB (A) as an upper limit of noise level during day time and 45 dB (A) during night time for residential area.

GREEN CIRCLE INC. BARODA

Authorized Signatory

Report No:-GCI/V/LAB/G074/24-RS/24-25/May-00/0479 **Date: 13.05.2024**

ANALYSIS REPORT

Client Details			**Sample Details**	
Name	Army Welfare Housing Organization		**Sample Code**	GCI/24/E16/S1
Address	GAT No. 1454/1 + 2 & 1455 , Village - Wagholi, Taluka – Haveli District- Pune, Maharashtra		**Location**	As per SOP
			Quantity	2.0 kg
Sampling Done By		Mr. Mukesh	**Date of Sampling**	5.05.2024
Analysis Starts on		06.05.2024		
Analysis Completion On		10.05.2024	**Sample Received Date**	06.05.2024

SOIL ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results	Test Procedure
1	pH (1:5 Soil Suspension)	-	6.6	IS 2720 (Part 26):1987
2	Electrical Conductivity (1:5 Soil Suspension)	mS/cm	0.44	EPA Method 9045
3	Total Nitrogen as N	mg/kg	54.9	Kjeldahl Method
4	Phosphate as P	mg/kg	63.1	Olsen Method
5	Potasium as K	mg/kg	223	EPA 3050 B
6	Exchangeable Calcium as Ca	meq/100g	16.2	EPA 3050 B
7	Exchangeable Magnesium as Mg	meq/100g	15.3	EPA3050 B
8	Exchangeable Sodium as Na	meq/100g	0.81	EPA3050 B
9	Organic Matter	%	1.72	Walkey and Black Method
10	Texture	-	Sandy Clay	Robinson Pipette Method

BDL =Below Detectable Limit **DL =Detectable Limit**

GREEN CIRCLE INC. BARODA

Authorized Signatory

Report No:-GCI/V/LAB/G074/24-RS/24-25/May-00/0479 **Date: 13.05.2024**

ANALYSIS REPORT

Client Details		**Sample Details**	
Name	Army Welfare Housing Organization	**Sample Code**	GCI/24/E16/DW1
Address	GAT No. 1454/1 + 2 & 1455 , Village - Wagholi, Taluka – Haveli District- Pune, Maharashtra	**Location**	As per SOP
		Quantity	2000 ml
Sampling Done By	Mr. Mukesh	**Date of Sampling**	5.05.2024
Analysis Starts on	06.05.2024	**Sampling Method**	APHA 1060
Analysis Completion On	10.05.2024	**Sample Received Date**	06.05.2024

DRINKING WATER ANALYSIS RESULTS

Sr. No.	Parameter	Unit	Results	Permissible Limit as per IS 10500-2012	Reference Method
1	Colour	Hazen	Nil	5	APHA 22nd EDITION
2	Odour	-	No Odour	Unobjectionable	APHA 22nd EDITION
3	Taste	-	Agreeable	Agreeable	APHA 22nd EDITION
4	Turbidity	NTU	BDL(<0.5)	1	IS : 3025 Part 10-1984 (Reaff: 2002)
5	pH at 25 °C	-	6.6	6.5-8.5	IS : 3025 Part 11- 1983 (Reaff:2002)
6	Total Dissolved Solids	mg/l	233	500	IS : 3025 Part 16-1984 (Reaff:2003)
7	Total Alkalinity as CaCO3	mg/l	98	200	IS : 3025 Part 23- 986(Reaff:2003)
8	Total Hardness as CaCO3	mg/l	91	200	IS : 3025 Part 21-2009
9	Calcium as Ca	mg/l	47	75	IS : 3025 Part 40-1991 (Reaff:2003)
10	Magnesium as Mg	mg/l	16	30	APHA 22nd EDITION-3500 Mg-B
11	Chloride as Cl-	mg/l	85	250	IS : 3025 Part 32-1988 (Reaff:2003)
12	Sulphate as SO4	mg/l	72	200	APHA 22nd EDN-4500- SO42- E
13	Nitrate as NO3	mg/l	24	45	APHA 22nd EDN -4500- NO3- B
14	Iron as Fe	mg/l	0.16	0.30	IS : 3025 Part 53-2003
15	Manganese as Mn	mg/l	BDL (<0.02)	0.10	APHA 22nd EDN -3500-Mn D
16	Fluoride as F	mg/l	0.51	1.00	APHA 22nd EDN -4500-F B&D
17	Lead as Pb	mg/l	BDL (<0.03)	0.05	IS:3025 Part 47 (Reaff:2003)
18	Copper as Cu	mg/l	BDL (<0.03)	0.05	IS:3025 Part 42 (Reaff:2003)
19	Zinc as Zn	mg/l	0.78	5.00	IS:3025 Part:49 (Reaff:2003)
20	Hexavalent Chromium as Cr^{6+}	mg/l	BDL (<0.03)	0.05	IS:3025 Part:37 (Reaff:2003)
21	Residual Free Chlorine as Cl2	mg/l	BDL (<0.10)	0.20	APHA 22nd EDN -4500-Cl B
22	Cadium as Cd	mg/l	BDL (<0.03)	0.003	IS:3025 Part 48(Reaff:2003)
23	Aluminium	mg/l	BDL (<0.03)	0.03	IS:3025 Part:55 (Reaff:2003)

BDL =Below Detectable Limit

GREEN CIRCLE INC. BARODA

Authorized Signatory

Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V
(See Rule 14)
Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number	Submitted Date
MPCB-ENVIRONMENT_STATEMENT-0000077083	07-03-2025

PART A

Company Information

Company Name	Application UAN number
M/s Army Welfare Housing Organization	SEIAA-EC-0000000200

Address
South Hutments, Kashmir House, Rajaji Marg , New Delhi 110011

Plot no	Taluka	Village
Gat No. 1454/1 + 2 & 1455I	Haveli	Wagholi
Capital Investment (In lakhs)	**Scale**	**City**
53540.00	L.S.I	Pune
Pincode	**Person Name**	**Designation**
412207	COL P H Reddy	Project Director
Telephone Number	**Fax Number**	**Email**
9493515769		moef33@kumarworld.com
Region	**Industry Category**	**Industry Type**
SRO-Pune I	Orange	O21 Building and construction project more than 20,000 sq. m built up area
Last Environmental statement submitted online	**Consent Number**	**Consent Issue Date**
no	Format1.0/CAC-CELL/UAN No.0000095537/CO-2108001707	2021-08-26
Consent Valid Upto	**Establishment Year**	**Date of last environment statement submitted**
11/03/2028	1978	Mar 7 2025 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Built up Area (Sq.m)	135408.08	104437.38	

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	0.00	0.00
Cooling	0.00	0.00
Domestic	657.00	340.00
All others	0.00	0.00
Total	657.00	340.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Domestic Effluent	536	306	CMD
NA	0	0	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
NA	0	0	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
NA	0	0	CMD

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
DG set	22.0	383.25	Ltr/Hr

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
Treated waste water (BOD)	306.00	7.4	0	10 mg/lit	NA
Treated waste water (Suspended solids)	306.00	12.3	0	20 mg/lit	NA
Treated waste water (COD)	306.00	36.58	0	50 mg/lit	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
NA	0	0	0	0	NA

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0	0	Ltr/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Total Solid Waste	0	0	Kg

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
STP SLUDGE	550.00	550.00	Kg/Annum

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	40	Ltr/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Bio degradable waste (Kg/day)	63875	Kg/Annum	100% of total waste treated in OWC
Non Bio degradable waste (Kg/day)	45625	Kg/Annum	100 % of total waste hand over to authorise vendor

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Solar Water Heater	0	0	0	18200	0	1.64

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	***Environmental Protection Measures***	***Capital Investment (Lacks)***
Environment Monitoring	To monitor the environmental parameters	1
STP	To treat wastewater	15.0
Solar water heater	Energy Saving Measures	2
Solid waste	waste treatment	7.5
Green Belt Development	To control air pollution and provide acoustic cover to area	12.5

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	***Environmental Protection Measures***	***Capital Investment (Lacks)***
Environment Monitoring	To monitor the environmental parameters	1
STP	to treat wastewater	15.0
Solar water heater	Energy Saving Measures	2
Solid waste	Waste treatment	7.5
Green Belt Development	To control air pollution and provide acoustic cover to area	12.5

Part-I

Any other particulars for improving the quality of the environment.

Particulars

NA

Name & Designation

Mr. Samir Patil, Manager – Sustainable Development

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000077083

Submitted On:

07-03-2025