Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	SIA/KA/INFRA2/553620/2025
Compliance ID	1227229105
Compliance Number(For Tracking)	EC/M/COMPLIANCE/1227229105/2026
Reporting Year	2026
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	12-05-2026
RO/SRO Name	Shri S Senthil Kumar
RO/SRO Email	jk083.ifs@nic.in
State	KARNATAKA
RO/SRO Office Address	Integrated Regional Offices, Bengaluru
Note:- SMS and E-Mail has been sent to Shri S Senthil Kumar, KARNATAKA with Notification to Project Proponent.	

EMBASSY
REIT

Date: 20th May 2026

To,
The Member Secretary,
State Level Environmental Impact Assessment Authority (SEIAA),
Department of Ecology & Environment, Room No. 709, 7th Floor,
IV-Gate, M.S. Building, Bengaluru – 560001.

Sub: Half Yearly Compliance report submission for Environment Clearance conditions for the period of October'25 to March'26 for Embassy Manyata Business Park.

Ref: Environmental Clearance EC No.30: CON:2009 dt. 10.06.2010 & modified **EC No. SEIAA 20 CON 2022 dated 08.11.2022.**

Dear Sir,

With reference to the above subject, please find the enclosed Half Yearly Compliance report for Environment Clearance conditions for the period of October'25 to March'26 for our project **Embassy Manyata Business Park (EMBP)** situated at Outer Ring Road, Nagawara, Bangalore – 560045.

Thanking you,

Yours faithfully

For Manyata Promoters (P) Ltd,

Authorized Signatory

Enclosure: HYCR on EC conditions with Annexures

21/05/26

Manyata Promoters Private Limited
Registered Office: 12th Floor, Pinnacle Tower, Embassy One, 8, Bellary Road, Ganganagar, Bengaluru, Karnataka – 560 032
T: +91 80 6935 4864
E: [redacted] | W: [redacted] | CIN: U70102KA2000PTC169303

HYCR to EC Conditions (Oct'25 to Mar'26)

Specific Conditions

Sl. No.	Condition	Reply
1	To establish Energy efficient wastewater treatment system with tertiary treatment to bring it to urban reuse standards and provide the additional filtrations collection tank for frequent cleaning due to accumulation of residual and colloidal organic matter.	Noted and complied.
2	To utilize a minimum of 50% of roof area for solar power generation.	Noted and agreed
3	To provide minimum 50% of total parking with e-vehicle charging facility.	Noted and agreed.
4	To provide additional roof top rainwater collection tank capacity of 609 cum & 400 recharge pits.	Noted and agreed.
5	The tree species selected under this plantation should be native and will be moderately high, good foliage bearing and are able to trap dust and noise, greenbelt and green cover of 1 tree per 80 Smt. of plot area.	Complied. The tree plantation details is attached **Annexure 1** for reference.
6	The project proponents design and build with suitable buffer from water bodies / drain & set back as per the local Planning Authority Byelaws and design the building layout plan with bell mouth entry and exit in the proposed project, also manage the internal/external traffic without causing the inconvenience to the public in the main road restrict the drop off and pickup as per the traffic management proposed in the project.	Noted and agreed.
7	Install dual pipelines with energy efficient plumbing system to conserve water, also adopt the ECBC guidelines and BEE norms for building energy conservations. Explore the possibility of implementation of green building concepts.	Complied. The dual pipelines are installed to conserve water. The green building concepts are adopted.
8	The PP Mandatory to incorporate catalytic converter for DG sets with dual fuel option.	Noted and agreed.
9	Corporate Environmental Responsibility (CER) should be a part of EMP cost, the CER shall be specific activity, time bound and should support the environment in compliance to the office memorandum dated 1st May 2018 (F.No. 22-	Noted and agreed.

	65/2017-IA-III) and subsequent OM dated 30th September 2020, 20th October 2020 and 25th February 2021.	
10	The project proponents should comply with the MoEF&CC notified the Construction and Demolition Waste Management Rules, 2016 on 29th March, 2016.	Noted and agreed.
11	The PP shall utilize the excavated soil/earth within the project site to the maximum possible extent.	Noted and agreed.
12	The PP must ensure the adequate water supply to the project before the operation/occupancy of the project.	Noted and complied.
13	The Proponent shall be solely responsible for the authenticity and legality of all land documents submitted for obtaining EC.	Noted and agreed.
14	To obtain clearance from M/s Bangalore Solid Waste Management Limited for handling C&D Waste generated within the site.	Noted and agreed.
15	The project Proponent to comply with the observation in CCR issued by MoEF&CC.	Noted and agreed.

Statutory Compliance

Sl. No.	Condition	Reply
i)	The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work.	Complied. All the relevant clearance/permission along with renewals are obtained
ii)	The approval of the Competent Authority shall be obtained for structural safety of the constructions due to earthquakes.	Complied. Structural safety certificates are obtained as required. The same is attached as **Annexure 2.**
iii)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980.	Not applicable
iv)	The proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable
v)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air and Water Acts.	Complied. The required consent is obtained from the KSPCB. The same is attached as **Annexure 3.**
vi)	The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project.	Noted and agreed.
vii)	A certificate of adequacy of available power from the agency supplying power to the project	Complied. Necessary approvals from BESCOM have already been

	should be obtained.	taken. The same is attached as **Annexure 4.**
viii)	All other statutory clearances such as approvals for storage of diesel, Fire Department, Civil Aviation Department shall be obtained.	Complied. Statutory clearances such as PESO license, Fire NOC, AAI NOC are obtained as required.
ix)	The provisions of the Solid Waste Management Rules, 2016, e-Waste Rules and Plastic Waste Management Rules shall be followed.	Noted and complied.
x)	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency strictly.	Noted and complied.

Air Quality Monitoring and Preservation

Sl. No.	Condition	Reply
i)	Notification GSR 94 (E) dated 25.01.2018 of MoEF & CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	There is no demolition activities carried out from Oct'25 to Mar'26.
ii)	A management plan shall be drawn up and implemented to contain the current exceedance if any in ambient air quality at the site.	Measures in order to maintain the ambient air quality has been taken. There water spraying, covering the C and D waste materials with tarpaulin sheets etc are implemented.
iii)	The project proponent shall install a system to carryout Ambient Air Quality monitoring for common/ criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$) covering upwind and downwind directions during the construction period.	Ambient air quality reports are attached for reference as **Annexure 5.**
iv)	Diesel power generating sets proposed as source of backup power should be of the enclosed type and conform to rules made 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 of lower sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Bord.	Complied. The DG sets are enclosed type and they conform to the Environment protection Rules. The height of the chimney will be done as per the requirement of the SPCB.
v)	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site.	Noted and agreed.

	These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic /tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.	
vi)	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	Noted and complied.
vii)	Wet jet shall be provided for grinding and stone cutting.	Complied. Wet jet is used at stone cutting areas.
viii)	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	Water sprinkling was done at construction site. The images are attached as **Annexure 6.**
ix)	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.	Noted and agreed.
x)	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to standards prescribed under Environmental (Protection) Rules for Air and Noise emission standards.	Noted and agreed.
xi)	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	Noted and agreed.

Water Quality Monitoring and Preservation

Sl. No.	Condition	Reply
i)	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage	Complied. The Nalas passing through the project are maintained with adequate buffer as per the statutory norms. Natural drain system is not altered, and drainage pattern of the area is maintained.

	systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.	Roof top rainwater harvesting is being done in the existing buildings of the project.
ii)	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	Complied. Buildings in the project are designed considering natural topography of the area. Cutting and filling is minimized to the extent possible, excavated earth is reused within the project site for backfilling, landscape and formation activities.
iii)	Total freshwater use shall not exceed the proposed requirement as provided in project details.	Noted and agreed.
iv)	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF & CC along with six monthly Monitoring reports.	Complied. The water consumption details for operation building is attached as **Annexure 7.**
v)	A certificate shall be obtained from local body supplying water, specifying the total annual water availability with local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available, this should be specified separately for ground water and surface water sources, ensuring that there is no impact on the other users.	Noted and agreed.
vi)	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	Complied. More than 20 percent of the open space is provided as per the byelaw is imperious with virgin soil and paver blocks. Project is designed as per the bye laws of BDA and KIADB which complies open space area requirements.
vii)	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.	Complied. Dual pipe plumbing is installed for all the buildings in the project to recycle treated water for flushing. The images of the same is attached as **Annexure 8** for reference.
viii)	Use of water saving devices/ fixtures (viz. low flow flushing systems, use of low flow faucets	The water saving fixtures such aerator taps, sensors etc has been

	tap aerators etc) for water conservation shall be incorporated in the project area.	installed. The images of the same is attached as **Annexure 9.**
ix)	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	Noted and complied.
x)	The project proponent shall identify a suitable source of treated water for construction and submit an MOU/Agreement with such suppliers. If so the supplier identified shall be responsible for treatment of water with appropriate technology to the standards required for construction purpose.	Noted and complied. At present the excess STP treated water from the operational buildings is used for construction, curing and dust suppression activities. The treated sewage conforms to the urban reuse standards.
xi)	The local bye-law provisions on rainwater harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016.	Complied. Adequate capacity of rainwater harvesting sumps are provided in the project. (Total capacity 1370 cum)
xii)	A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up and storage capacity of minimum one day of total freshwater requirement shall be provided. In areas where ground water recharge is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.	Noted and complied.
xiii)	All recharges should be limited to shallow aquifer.	Complied. Rainwater recharging is planned to recharge shallow aquifer only.
xiv)	No ground water shall be used during construction phase of the project.	Noted and complied. No ground water is utilized for construction.
xv)	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.	Noted and agreed.
xvi)	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water	Complied. The water consumption details for operation building is attached as **Annexure 7.**

	balance. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	
xvii)	Sewage shall be treated in the STP based on MBBR/ SBR Technology with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing, landscaping and HVAC cooling. No treated water shall be discharged to the municipal drain.	Complied. The Sewage Treatment Plants comprising MBBR, SBR and MBR technologies are installed and being operated. The treated water is reused for secondary purposes such as flushing, landscaping and make up water for water cooled chillers. It is ensured that no treated water is discharged to municipal drain.
xviii)	No sewage or untreated effluent water would be discharged through storm water drains.	Complied. No sewage or untreated water is discharged from the project to the storm water drains.
xix)	The existing water body, canals and rajakaluve and other drainage and water bound structures shall be retained unaltered with due buffer zone as applicable and maintained under tree cover.	Noted and complied.
xx)	Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in the regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate change Natural treatment systems shall be promoted.	Complied. Certificate report for STPs from an independent expert for its installation and adequacy is enclosed as **Annexure 10** for reference. The treated water from the STP is being effectively reused for Landscaping, flushing and HVAC operations.
xxi)	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	Complied. The quality of the treated from STP is being monitored from a NABL and MoEF accredited laboratory on a monthly basis. The reports are attached as **Annexure 11** for reference.
xxii)	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environ mental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	Complied. Sludge generated from STPs is collected and being used as manure for our landscape.

Noise Monitoring and Prevention

Sl. No.	Condition	Reply
i)	Ambient noise levels shall conform to residential area both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.	Noise levels conform to the standards. Noise mitigation measures such as barricading, use of PPEs for workers, low noise producing construction equipments are used etc. are implemented in the project during construction phase.
ii)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied. Noise monitoring is being regularly monitored. The reports are attached as **Annexure 12** for reference.
iii)	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Complied. The DG sets are provided with acoustic enclosures, noise dissipating pads and the workers are provided with PPEs.
iv)	The project proponent shall ensure the time specification prescribed by the Honorable High Court of Karnataka in WP. No. 1958/2011 (LB – RES – PIL) on 04.12.2012 for different activities involved in construction work	Noted and agreed.

Energy Conservation Measures

Sl. No.	Condition	Reply
i)	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Building in the States which have notified their own ECBC, shall comply with the State ECBC.	Noted and complied.
ii)	Outdoor and common area lighting shall be LED.	Complied. The outdoor and common area lighting is provided with LED.
iii)	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope,	Complied. The building design brief for Passive and active energy savings considering low e glass, claddings, recessed windows with

	appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.	diffused lights, orientation to reduce the heat gain etc.,
iv)	Energy conservation measures like installation of LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.	Complied. LED lighting and energy conservation measures are considered in design and implemented in the project.
v)	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.	Complied. Solar panels are installed in the buildings for power generation.
vi)	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	The same is complied.

Waste Management

Sl. No.	Condition	Reply
i)	A certificate from the competent authority handling municipal solid waste, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W generated from project shall be obtained.	Complied. The Organic Municipal Solid waste generated from the project is treated in house using Organic waste converters. The other recyclable wastes are being disposed through authorized vendors. The manure produced from OWC is used for landscape development.
ii)	Disposal of muck during construction phase shall 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.	The generation of muck during construction is minimized with proper construction planning. The construction waste generated is stored in secured area, used back in the project for formation of roads and pavers. The external disposal is minimized.
iii)	Separate wet and dry bins must be provided	Complied. Separate bins are provided for collection of dry and wet waste.

	and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	
iv)	Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.	Complied. Adequate capacity OWCs are installed in the project, 14 numbers of with total capacity 3000 kg is installed for the operational buildings. Vermicomposting is also followed for disposal of lawn/landscape waste. 5 Vermicomposting tanks of total capacity 15,000 kg is installed.
v)	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	Complied.
vi)	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	No hazardous waste generation is anticipated during the construction phase
vii)	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.	The construction materials such as RMC, cement are being used with fly ash mixture. Eco friendly building materials are also used for construction to the maximum extent possible in the project.
viii)	Fly ash should be used as construction material as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in construction.	Cement with Fly ash content is used for construction. RMC plant is established to cater the concrete requirement of the project.
ix)	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	There was no construction and demolition waste generated for Oct'25 to Mar'26.
x)	Used CFLs/TFLs/LED should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	Complied. The E waste generated is being disposed to KSPCB authorized vendors only.

Green Cover

Sl. No.	Condition	Reply
i)	No tree cutting/transplantation should be carried out unless exigencies demand. Where absolutely necessary, tree transplantation shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	Complied. No tree cutting / transplantation is done in the project.
ii)	A minimum of 1 tree for every 80 Sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.	Complied. The list of plantations done in Manyata campus is attached for reference as **Annexure 1.**
iii)	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted).	Noted. No trees are cut in the project.
iv)	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	Topsoil from the construction area is carted, covered, stored and used for landscape development in the project.

Transport

Sl. No.	Condition	Reply
i)	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic	1. Bell mouth entry and exit are provided. 2. Internal approach roads with 25 m with median. 3. Dedicated pedestrian paths all along the approach road and as well as each building.

	criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. Parking norms as per local regulation.	4. Dedicated cycling paths are provided 5. Sky walks from ORR service approach road to the project. 6. Fly over with entry and exit ramps which connects to ORR. 7. The internal roads are designed with No clash or bottle necks. 8. Required parking space as per the bye law in each building are provided. Sky walk approach road to the project provided. The internal roads are designed with No clash or bottle necks. Required parking space as per the bye law in each buildings are provided.
ii)	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 be operated only during nonpeak hours.	Complied. Pollution check has been checked and vehicles were let inside only after the confirmation of emission test reports
iii)	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of roads within a 5 km radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 5 km radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	Complied. Comprehensive traffic management plan is in place to prevent congestion.
iv)	Provide at the main entrances bell gates, which are located at least 12 m inside the boundary of	Bell mouth entry and exit is provided in the project.

	the project to enable smooth flow of traffic on the main road leading to the entrance.	

Human Health Issues

Sl. No.	Condition	Reply
i)	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	The same is Complied. All the relevant PPEs like dust mask, Safety shoes, Helmet etc. are given and made mandatory for the workers wear the same during work activity.
ii)	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase. Sufficient number of toilets/bathrooms shall be provided with required mobile toilets, mobile STP for construction workforce.	Required sanitary and hygienic measures are in place for construction workers such as toilets cum bathrooms, rest area, potable drinking water facility etc. The images of the same is attached as **Annexure 13.**
iii)	For indoor air quality the ventilation provisions as per National Building Code of India.	Noted and Complied.
iv)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plant shall be implemented.	Each building is designed safe escape route and assembly area during emergency. The building occupants are trained with mock drills to ensure emergency preparedness. Onsite emergency preparedness plan is prepared and displayed in each building safe escape routes with dos and donts.
v)	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, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Provision for housing of construction labour is made with necessary infrastructure facilities such as mobile toilets, mobile STP, safe drinking water, medical health care etc., The images of the same are attached as **Annexure 14.**
vi)	Occupational health surveillance of the workers shall be done on a regular basis.	All the construction workers are screened to check the status of health conditions by qualified medical practitioner on regular basis. The images of the same are attached as **Annexure 14.**

vii)	A First Aid Room shall be provided in the project both during construction and operations of the project.	First aid rooms are provided at construction site and operational buildings. The images of the same are attached as **Annexure 14.**

Corporate Environment Responsibility

Sl. No.	Condition	Reply
i)	The project proponent shall comply with provision contained in OM vide F.No. 22-6512017-lA.lll dated 20th October 2020, of the Ministry of Environment, Forest and Climate Change as applicable, regarding Corporate Environment Responsibility and shall execute the action plan of Construction of skywalk in front of the project site for pedestrians crossing outer ring road as submitted in PARIVESH Portal. Contact details and Email Ids of Beneficiary in this regard shall be submitted to SEIAA while furnishing the Half Year Compliance report.	Noted. The same shall be complied.
ii)	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements /deviation/ violation of the environmental/ forest/ wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or stakeholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	The same is compiled and the Quality, Environment, Health and Safety Policy is attached as **Annexure 15.**
iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization. The project proponent enter into an agreement with the prospective buyers/tenants to ensure that they maintain the cell and take care of all environment concerns during the operation	Noted and complied.

	phase of the project. In addition, sufficient fees should be levied so as to raise a corpus fund to maintain the Environment cell.	
iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry of Environment, Forest and Climate Change/ Regional Office along with the Six Monthly Compliance Report.	Noted and agreed.

Miscellaneous

Sl. No.	Condition	Reply
i)	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.	The same was done and photos have been submitted to you previously. The images are attached as **Annexure 16.**
ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Noted and complied.
iii)	The Project Proponent shall obtain the construction material such as stones and aggregates etc. only from the approved quarries and other construction material shall also be procured from the authorized agencies/traders.	Complied. All the construction materials are augmented through notified and registered material suppliers and traders.
iv)	The project proponent shall not use Kharab land if any for any purpose and keep available to the general public duly displaying a board as public property. No structure of any kind be put up in the Kharab land and shall be afforested and maintained as green belt only.	Noted and agreed.

v)	The project proponent shall build in infrastructure required for use of Piped Natural Gas (PNG) such as pipelines and space for installation of PNG distribution equipment for both domestic/commercial purpose and DG set and shall ensure that PNG is supplied for both commercial and for DG sets instead of other type of fuels	Noted and agreed.
vi)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions including results of monitored data on their website and update the same on half-yearly basis	Noted and complied.
vii)	The project proponent shall submit six-monthly reports on the status other compliance of the stipulated environmental conditions on the website of the ministry of Environment Forest and Climate Change at environment clearance portal.	Noted and complied.
viii)	Half Yearly Compliances Reports (HYCRs) on the Environmental Conditions stipulated in the Environmental Clearance (EC) letter shall be submitted strictly through the dedicated module of PARIVESH 2.0 in the timely manner on or before 1st June and 1st December of each calendar year as per MOEF&CC O.M dated 14.06.2024. The HYCRs with its contents of a covering letter, compliance reports, and environmental monitoring data has to be in PDF format merged into a single document. The email should clearly mention the name of project, EC No. & date, period of submission and to be sent to the Regional Office of MOEF&CC by email only at email ID rosz.bng-mefcc@gov.in. Hard copy of HYCRs shall not be acceptable.	Noted and complied.
ix)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The Form V is submitted to KSPCB every year. Acknowledgement for the previous financial year i.e., 2024-25 is attached for reference as Annexure 17.
x)	The project proponent shall inform the regional office as well as the Ministry of Environment, Forest and Climate Change, the date of	Noted & agreed.

	financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	
xi)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	The stipulations made by pollution control board is strictly complied.
xii)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee	All commitments and recommendations made in the EIA/EMP report is followed.
xiii)	No further expansion or modifications in the plan shall be carried out without prior Environmental Clearance from the competent authority.	Noted and agreed.
xiv)	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted and agreed.
xv)	The State Level Environment Impact Assessment Authority, Karnataka may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and agreed.
xvi)	The SEIAA, Karnataka reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted and agreed.
xvii)	The Regional Office of MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Noted and agreed.
xviii)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted and agreed.

xix)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted and agreed.
xx)	ln case of any material supported by documents/ court orders which is contrary to the claim of the applicant and material facts produced, the SEIAA reserves the right to withdraw the EC at any point of time.	Noted and agreed

Additional conditions

Sl. No.	Condition	Reply
1	The PP shall establish Energy efficient wastewater treatment system with tertiary treatment to bring it to urban reuse standards and provide the additional filtrations collection tank for frequent cleaning due to accumulation of residual and colloidal organic matter.	Noted and agreed.
2	The PP shall utilize a minimum of 25% of roof area for solar power generation and provide minimum 50% of total parking with e-vehicle charging facility for commercial development projects.	Noted and agreed
3	The PP shall provide roof top rainwater collection tank capacity of 609 cum & 400 recharge pits or recharge pits of minimum 10–15 per acre, whichever is higher.	Noted and agreed
4	The tree species selected under this plantation should be native and will be moderately high, good foliage bearing and are able to trap dust and noise, greenbelt and green cover of 1 tree per 80 Sqm of plot area.	Complied. The tree plantation details is attached **Annexure 1** for reference.
5	The project proponents shall design and build with suitable buffer from water bodies/drain and setback as per local Planning Authority Byelaws and manage traffic without inconvenience to public.	Noted and agreed.
6	Install dual pipelines with energy efficient plumbing system to conserve water and adopt ECBC guidelines and BEE norms for building energy conservation.	Noted and complied.
7	The PP is mandatory to incorporate catalytic converter for DG sets with dual fuel option.	Noted and agreed.

8	Corporate Environmental Responsibility (CER) shall be part of EMP cost and shall comply with applicable Office Memorandums.	Noted and agreed.
9	The project proponents should comply with Construction and Demolition Waste Management Rules, 2016 and explore in-house C&D waste recycling facility.	Noted and agreed.
10	The PP shall utilize the excavated soil/earth within the project site to the maximum possible extent.	Noted and agreed.
11	The PP must ensure adequate water supply to the project before operation/occupancy.	Noted and agreed.
12	Proponents shall adapt deep aquifers method for ground water recharge instead of shallow aquifers wherever feasible.	Noted and agreed.
13	The PP shall construct lead drains till the nearest natural drains/water body for handling excess water.	Noted and agreed.
14	Energy savings shall be minimum 25% by adopting conservation measures submitted.	Noted and agreed.
15	The project proponent shall interlink the Online Continuous Monitoring System (OCMS) of the Sewage Treatment Plant with the KSPCB server.	Noted and agreed.
16	The PP shall submit MoU entered with treated water suppliers to use in construction activities along with audited certificate of treated water usage.	Complied. Currently the STP treated water from the existing STP is utilized for the same.
17	The PP shall ensure compliance of Government of Karnataka orders dated 12.03.2024 and 22.03.2024 in operation of STP.	Noted and agreed.
18	The project proponent shall ensure that total volume of water consumed is compensated by implementing effective rainwater harvesting systems.	Noted and agreed.
19	The Proponent along with proposed CER shall undertake construction of footpath and public toilet in consultation with concerned authorities.	Noted and agreed.
20	The PP shall earmark separate area for handling solid waste management, E-Waste, Biomedical Waste and Plastic Waste within the project site.	Complied. Separate area is provided for handling different type of waste.

21	The PP shall explore possibility to conserve energy at least 25% using Natural Sources/Green energy.	Noted and agreed.
22	The PP shall provide the STP in modular basis considering the quantity of waste water generated.	Noted and agreed.
23	The Project Proponent shall maintain the prescribed buffer zone for the water body in accordance with applicable Zonal Regulations.	Noted and agreed.
24	The Proponent shall be solely responsible for authenticity and legality of all land documents submitted for obtaining EC.	Noted and agreed.
25	The project proponent shall obtain prior approval from competent authority for any tree cutting or relocation.	Noted and agreed.
26	The project proponent shall undertake development of at least 1 km of pedestrian footpath adjacent to the project area.	Noted and agreed.

Manyata landscaping area detail

Sl no	Building name	Area in sqm
1	Alder D1 Block	3242
2	Malpe D2 Block	3242
3	Red wood D3 Block	4560
4	Cypress D4 block	3840
5	Rose wood K block	3100
6	Sliver oak E2 block	2435
7	Mangolia B block	2217
8	MLCP IBM	1770
9	Elm C4	1429
	H2	3100
10	ANZ- H1	6016
11	C1	3900
12	C2	2770
13	F2	5250
14	Common area	4442
15	L5	3228
16	G1	5650
17	Beech E1	3550
18	Ecozone (Nala)	3400
19	Underpass & Residence Road	6000
20	Aspen Block (G4) vertical Garden	
21	Manyata Place	5000
	Total	

innotech

Transform Thoughts

25th Feb 2015

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the **STRUCTURAL DESIGNS** for the Office Building **Block 'L3 (Hazel) at Manyata Embassy Business Park** comprising of 2 Basements + Ground floor + 10 Office Floors + Terrace, on Survey No. 100/2P, 101/1P, 101/2P, 102/2P, 102/5P, 103/1, 103/2, 103/5, 103/6, 104/1, 104/2, 104/3, 105/1P, 105/2P, 106/P, 107/P and 108/P of Nagawara Village, Bengaluru North Taluk, Bengaluru, belonging to **M/s Manyata Promoters Pvt Ltd.** is designed based on the architectural plans submitted to Concerned Development Authority KIADB **Ref KIADB/DO-II/SUC/14549/PL-SANC/2013-14 Dated 01/10/2013.** The structure is a reinforced concrete framed structure with column and flat slab system for office floors and waffle slab system for Podium and basement Floors and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF:

The structure is a reinforced concrete framed structure with column and flat slab system for office floors and waffle slab system for Podium and basement Floors and is complying with the Bureau of Indian Standard norms

All the above structures are designed in accordance with IS:456 and IS:875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is designed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis for building is done using the standard commercially available software's SAFE, E-Tabs and is designed for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm^2 (Fe-500).

Innotech Engineering Consult Pvt Ltd Bangalore

Cont...

Innotech Engineering Consult Pvt Ltd
No 457, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore – 560076
CIN: U74900KA2010PTC053173
T: 91 80 2678 0996 / 2678 9101 / 4142 6325
Email: innotech@innotechconsult.in / Website: www.innotechconsult.in

CONSTRUCTION SUPERVISION:

The Project is supervised by a team of engineers from **M/s Synergy Property Development Services Pvt Ltd** for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated **24.02.2015** issued by **M/s Synergy Property Development Services Pvt Ltd** which confirms that the construction work has been done on the GFC drawings issues by the consultants and have met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

H.P.Yogesh
Director.
Regn # B C C -BL /3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by **M/s Synergy Property Development Services Pvt Ltd., Dated 24/02/2015.**

Innotech Engineering Consult Pvt Ltd

A. INTRODUCTION:

The existing **"Fidelity"** building located at the premises of **Embassy Manyata Business Park** Nagawara, **Bangalore** is an RC framed structure supporting RC waffle Slab. The building comprises of basement, Ground & three upper floors. It is reported that, the building was constructed in the year 2006 and since then it is occupied.

Now, the concerned authorities propose to assess the soundness of the existing building. In view of this, a reference was made to **M/s. Bureau Veritas (India) Pvt. Ltd. Bangalore** to assess the soundness of the building and to suggest the appropriate remedial measures for distressed members if any.

In response to this, a detailed evaluation study was carried out by us during October to November 2019 by conducting various Non-destructive tests. This report, in brief, summarizes the outcome of the study, and conclusion thereon.

B. PHYSICAL OBERVATIONS:

Following are the physical observations made consequent to the detailed inspection of the building.

Basement Floor

1. No visible sign of settlement of foundation was observed in any part of the structure.
2. Dampness/ Damp-patches were observed in RC waffle slab & masonry wall at few locations.
3. Spalling of concrete & exposure of rebars were observed in RC members at few locations of the structure.
4. Honey combing / voids in RC waffle slab was observed at few locations of the building.
5. Peeling of paint & dampness observed at staircase at few locations.
6. Cracks were observed in masonry walls at a few locations.
7. Chipping of concrete in slab was observed at few locations resulting in exposure of rebras.
8. Chequered plate was observed in ceiling slab at few locations, corrosion was observed in the chequered plate.

Ground floor

1. Cracks on exterior masonry wall was observed at a few locations.
2. No distress features were observed in RC columns & waffle slab at inspected regions.

First floor

- No distress features were observed in RC columns & waffle slab at inspected regions.

Second floor

- No distress features were observed in RC columns & waffle slab at inspected regions.

Third Floor

1. Honey combing / voids in RC waffle slab was observed at few locations.
2. Exposure of rebar were observed in RC waffle slab at few locations.

Fourth floor

1. Dampness/ Damp-patches were observed in RC waffle slab at few locations.
2. Spalling of concrete & exposure of rebar's were observed in RC members at few locations.
3. Honey combing / voids in RC waffle slab was observed at few locations.
4. Patchup repair works observed in RC members at few locations.

Terrace floor

1. Minor cracks in WPC & stagnation of water was observed on terrace at few locations.

Note: The majority of the building provided with false ceiling/cladding. Hence, physical observation was carried out only at accessible regions of the building.

(Refer enclosed photographs)

C. SOUNDNESS STUDY

In order to ascertain the soundness of the building following evaluation studies were carried out:

1. **Dimensional measurements of structural members.**
2. **Examination of soil at founding level.**
3. **Semi-Destructive test to assess the strength of in-situ concrete in RC foundation.**
4. **Non-Destructive tests to assess the quality / strength of in-situ concrete in RC members:**
   a. **Ultrasonic Pulse Velocity test on RC columns and beams.**
   b. **Rebound Hammer test on RC waffle slabs/RC slab.**
5. **Cover-meter studies to assess the thickness of cover concrete in RC members.**

1. **Dimensional Measurements of Structural Members.**

As the relevant architectural/structural drawings were not made available, a detailed physical measurement was carried out to obtain the dimensions of various structural members of the building. The dimensions were physically measured and recorded for preparation of lay out plan.

(Refer DWG. Ref. No1&2)

2. **Examination of soil samples (by auguring method near the structure).**

Auguring bore method was carried out for examination of soil at 3 locations near the structure selected at random. The type of soil observed is clayey sand with traces of gravel between 3.5m to 4.5m depth from ground level.

3. **Semi-Destructive test to assess the strength of in-situ concrete in RC foundation:**

In order to assess the strength of in-situ concrete, semi- destructive test such as core test was resorted. The core sample was extracted from randomly identified regions of raft footing for laboratory test. The extracted core sample was subjected to compressive strength test after necessary trimming and capping as per the guidelines in IS: 516-1959 (Reaffirmed in 2013). The results of concrete core tests are tabulated in Table-1.

The result of the tests indicates that the strength of in-situ concrete in tested core in RC foundation is between of **23.7 and 26.2N/sq.mm.**

4. **Non-Destructive Tests to assess the quality/strength of in-situ concrete in RC members:**

a. Ultrasonic Pulse Velocity test on RC columns, waffle ribs and beams:

Ultrasonic Pulse Velocity test was conducted on RC columns & RC beams at accessible regions of the of the building in order to assess the quality of in-situ concrete. The test was conducted using **"PUNDIT Lab +" (Portable Ultrasonic Non-destructive Digital Indicating Tester)** equipment from **M/s. Proceq, Switzerland,** as per the guidelines in Indian Standards IS: 13311- (Part-I)-1992-(Reaffirmed in 2013). Direct method of test was adopted at site. The results of the tests are tabulated in ***Table-2*** and corresponding reference quality grading chart is appended in ***Table-2A.***

The Ultrasonic Pulse Velocity test results indicate the quality of concrete in the tested RC columns, waffle ribs & beams falls under the category of **"Good Concrete"** asper **Table-2** IS:13311- (Part-I)-1992-(Reaffirmed in 2013) at unaffected regions.

b. Rebound Hammer test on RC waffle slab & RC flat slab to assess the surface hardness and strength of in-situ concrete.

Rebound Hammer test was carried out on RC waffle slab & RC slab at random at accessible regions to assess the surface hardness and strength of in-situ concrete. The test was conducted using **Schmidt Rebound Hammer** from **M/s. Proceq, Switzerland** as per the guidelines in Indian Standards IS: 13311-(Part-II)-1992-(Reaffirmed in 2013). The results of the tests are tabulated in **Table-*3.*** Along with corresponding estimated compressive strength chart in ***Table-3A*** Rebound Hammer test results indicate that the estimated strength of in-situ concrete nearer to surface in tested region falls in the range of **27.0 N/sq.mm to 31.0 N/sq.mm** at unaffected regions.

5. **Cover-meter studies to assess the thickness of cover concrete in RC members.**

Cover-meter studies were carried out on RC members in accessible regions at random various locations of the building, in order to assess the thickness of cover concrete in the tested RC members. The test was conducted using **Profometer-5⁺** from **M/s. Proceq, Switzerland** as per the guidelines furnished by the manufacturer's manual. The results of the tests indicated that the cover were recorded for theoretical verification and the results of the tests are tabulated in ***Table-4.*** From the results of the cover meter test, it is found that cover concrete provided to the rebars is adequate in most of the tested members. However, at few locations cover concrete provided was observed to be inadequate.

D. INFERENCES

Based on the results of detailed physical observations and evaluation test results following are the inferences drawn:

1. From the results of Non-destructive tests and semi-destructive test, it is inferred that the quality/strength of in-situ concrete in the tested members are found to be **satisfactory at unaffected regions.**

2. From the results of the cover meter test, it is observed that cover concrete provided to the rebar's is adequate in most of the tested members. However, at few location of RC waffle slab the cover concrete observed to be inadequate essentially due to improper shuttering, lack of compaction during concreting and absence of cover blocks during construction.
3. The observed cracks in masonry wall could be due to temperature effect and it is nonstructural in nature.
4. Dampness / damp patches observed in basement & fourth floor RC waffle slab & masonry wall are mainly due to stagnation of water at toilet regions/garden area or terrace floor over a period of time.
5. The honeycombed concrete region /exposed rebars in waffle slab calls for appropriate treatment to render it normal and to enhance the durability of the building.

E. RECOMMENDATIONS / REMEDIAL MEASURES

Based on the above studies and inferences drawn, following recommendations are made:

1. **Treatment for severe dampness in basement RC Waffle slab region.**
2. **Treatment for spalling of concrete and exposed rebas in RC waffle slab & ribs.(locally damaged regions of RC members)**
3. **Treatment for dampness in masonry walls.**
4. **Treatment for cracks in masonry walls.**
5. **Water proof treatment for terrace.**

1. Treatment for severe dampness in basement and fourth floor RC Waffle slab region.

a. Existing loose / de-bonded concrete (if any) shall be removed completely surface shall be cleaned thoroughly using air & water jet.
b. 12mm dia. 50mm deep holes shall be drilled at damp/leakage region to fix 10mm dia grouting nozzles / packers in cleaned holes.
c. The cleaned concrete surface shall be treated with polymer modified mortar as per specification and sketch after treating exposed reinforcement with anti-corrosive chemical.
d. Pressure grouting shall be carried out through drilled holes at a pressure of 3 to 4 kg/cm^2 using low viscosity epoxy until refusal is reached as per sketch and specifications.

e. Projected nozzles shall be cut in flush with adjacent surface and hole shall be plugged with epoxy putty.

Further, The above garden and toilet area shall be made leak proof with appropriate water proof treatment.

2. Treatment for spalling of concrete and exposed rebar in RC waffle slab & ribs. (Locally damaged regions of RC memebers)

a. All loose plaster / cover concrete in the r c members shall be completely removed by gentle chipping to expose hard / sound concrete surface.

b. Exposed reinforcing bars shall be thoroughly cleaned with wire brush & emery cloth or by mechanical buffing wheel to remove rust, scales, etc.

c. Exposed surface of concrete and reinforcing bars shall be thoroughly cleaned with air and water jet to remove dust particles.

d. Two coats of anti-corrosive chemical shall be provided on the exposed and cleaned reinforcing bars as per manufacturer's specification.

e. 20 mm thick polymer / latex modified mortar plaster shall be provided and finished in flush with the adjacent surface over a coat of primer as per manufacturer's specification and cured.

Note: If the thickness of structural grade polymer / latex modified mortar layer exceeds 50mm, a layer of weld mesh 50 x 50x 3mm shall be placed and fixed to concrete using shear connectors.

3. Treatment for dampness in masonry walls.

a. The deteriorated plaster on masonry wall shall be totally removed by gentle chipping.

b. The mortar joints in walls shall be deep racked and repointed with CM 1:4 s per standard practice followed by re-plastering in CM 1:6 mixed with water proofing plasticizers.

4 .Treatment for cracks in masonry walls.

a. "V" grove shall be made along the crack and cleaned with air & water jet.

b. Grove shall be filled with elastomeric crack sealant as per manufacturer's specification.

5. Water proof treatment for terrace.

Since the cracks were observed on existing water proofing treatment at several locations, in order to make terrace leak proof, it is recommended to provide spray applied elastomeric (polyurethane based) water proof membrane as per manufacturer's specification after proper surface preparation. Adequate slope for easy disposal of rain water shall be ensured prior to treatment.

6. The abrupt chipping region of concrete in basement waffle ceiling slab shall be provided with free flow micro concrete as per specification.
7. The corroded chequered plate and exposed rebars in basement ceiling slab shall be provided with anti-corrosive chemical after necessary surface preparation(removing corrosion stains and rust).

F. CONCLUDING REMARKS

Based on the soundness assessment of the existing **"Fidelity"** building located in the premises of Embassy Manyata Business Park Nagawara, Bangalore it is concluded that, **the above building is sound and free from any major distress**. However, the minor distress features observed in the building shall be treated appropriately as recommended above.

On carrying out the above recommended remedial measures effectively as per sound engineering construction practice, the distress regions of the building will be rendered normal. It is essential that the recommended remedial measures shall be executed by an experienced agency under the supervision of experienced technical personnel.

Further, it is needless to emphasize the periodic maintenance of the building should be strictly adhered to for effective functioning and life enhancement of the building.

VINAYAKAPRASAD A
Senior Engineer- NDT

MANORANJAN. S
Head – Technical services- NDT

mahimtura consultants pvt. ltd.

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• project management consultants

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Date : 15th January, 2021

To,

Manyata Promotors Pvt. Ltd.
Manyata Embassy Campus,
Opp. to BEL Corporate Office, Nagavara,
Hebbal Ring Road, Bengaluru,
Karnataka - 560 045

Sub. : Structural stability certificate for your building "E1 Block" at "Manyata Embassy Campus, Opp. to BEL Corporate Office, Nagavara, Hebbal Ring Road, Bengaluru, Karnataka - 560 045.

Dear Sir,

This is to certify that we had carried out structural audit & all NDT tests of your above building for which we have already submitted the report in year 2020/21.

We would like to mention that we does not find any major structural abnormity while visual survey & NDT tests except certain leakages issued from exterior wall / terrace / toilet and some minor cracks in walls / trimix flooring which need to be attended in near future to keep the structural integrity & durability of the building for long run.

Other wise the building as whole is structurally sound and safe for the purpose which has been intended for to the best of my knowledge & belief as on date.

Thanking you,

Yours sincerely,
For **Mahimtura Consultants Pvt. Ltd.**

MAHIMTURA CONSULTANTS (P) LTD. * MUMBAI *

H.R. MAHIMTURA
(Director)

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Founder - Principal Consultant

B. R. V. Murthy
Founder - Principal Consultant

B. S. A. Narayan
Principal Consultant

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November 16, 2007

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK

LUCENT TECHNOLOGY PARK - E2

This is to certify that the building, **"MANYATA EMBASSY BUSINESS PARK - LUCENT TECHNOLOGY PARK - E2"** having Ground + Seven Upper floors, Terrace with total built-up area of 5,33,672 Sft. located at Sy.No SY.NOS:PC117(P),18/1,18/2,18/3,18/4,18/5,18/6,18/7,18/9,19/1,19/2,19/3,19/4,19/5,20/1,20/2,20/3,20/4,21,22/1,22/2,23/1,23/2,24,25/1(P), 26(P), 27/3, 27/4, 27/5, 27/6, 27/7, 27/8, 28/2A, 28/2B, 28/3(P), 28/5, 28/6, 36/5 in Rachenahalli Village, K.R.Puram Hobli. Bangalore (East). Total Area=37A-21G

Sy.Nos: PC283/3A, 83/3B, 83/4, 113/1, 113/2, 113/3, 114/2(P), 115/2, 116/4, 116/6, 117/1,121/1, 121/2, 122, 123/1A(P), 123/1B, 123/2, 124/1,124/2A & 124/3B in Nagawara Village-Kasaba, Bangalore (North), Total Area=18A-03 3/4G

Sy.Nos:PC381/8(P),83/1,83/2,85/4,85/5,85/6,85/7,85/9,99/1(P),99/2,99/3,100/2,103/5,103/6,105/1,105/2,105/3,105/4,106(P),110/1,110/2,110/3,111/1,111/2,111/3,111/4,111/5,111/6,112/1,112/2,112/3, 115/1,116/1,116/2A, 116/2B, 116/3, in Nagawara Village-Kasaba, Bangalore (North),Total Area=30A-21G

Sy Nos: 27/1,27/2,27/9,28/1(P), 29/2,29/3(P), 35/3B, 35/3C, 36/1(P), 36/2(P), 36/3,36/4(P), 36/6(P), 36/7(P), in Rachenahalli Village, K.R.Puram Hobli. Bangalore (South),Total Area=7A-03 1/2G

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SY.NOS: PC 4 82/1(P), 84(P), 85/1,98,114/1,114/2, 114/3,114/4, 114/5,115/3, 116/5, 123/1A, 124/2B, 124/3A. in Nagawara Village-Kasaba, Bangalore (North),Total Area=12A-27 1/4G. Sy. Nos: PC 5 81/8(P), 82/1,84(P), 85/3(P) in Nagawara Village, Kasaba, Bangalore North, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DOII/SVC/14549/PL.SANC/05-06 dated 19/12/2005 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete framed structure with column, beam and waffle slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on our periodic supervision and reports submitted by our supervision team and Project Management Team, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
President
BCC/BL/3.2.3/E-310/87-88

T. S. Sururaj
Founder - Principal Consultant

B. R. V. Murthy
Founder - Principal Consultant

B. S. A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE

July 12, 2007

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - IBM - D4

This is to certify that the building, "**MANYATA EMBASSY BUSINESS PARK - IBM - D4** having Basement + Ground + Ten Upper floors, Terrace with total built-up area of 6,17,756 Sft. located at SY.NOS:PC117(P),18/1,18/2, 18/3,18/4, 18/5,18/6, 18/7,18/9,19/1,19/2,19/3,19/4,19/5,20/1,20/2,20/3,20/4,21,22/1,22/2,23/1,23/2,24,25/1(P), 26(P), 27/3,27/4,27/5, 27/6,27/7,27/8,28/2A, 28/2B, 28/3(P), 28/5,28/6,36/5 in Rachenahalli Village, K.R.Puram Hobli. Bangalore (East). Total Area=37A-21G

Sy.Nos: PC283/3A, 83/3B, 83/4,113/1,113/2,113/3,114/2(P), 115/2,116/4,116/6, 117/1,121/1, 121/2, 122, 123/1A(P), 123/1B, 123/2, 124/1,124/2A &124/3B.in Nagawara Village-Kasaba, Bangalore (North),Total Area=18A-03 3/4G

Sy.Nos:PC381/8(P),83/1,83/2,85/4,85/5,85/6,85/7,85/9,99/1(P),99/2,99/3,100/2,103/5,103/6,105/1105/2,105/3,105/4,106(P),110/1,110/2,110/3,111/1,111/2,111/3,111/4,111/5,111/6,112/1,112/2,112/3, 115/1,116/1,116/2A, 116/2B, 116/3, in Nagawara Village-Kasaba,Bangalore (North),Total Area=30A-21G

Sy Nos: 27/1,27/2,27/9,28/1(P), 29/2,29/3(P), 35/3B, 35/3C, 36/1(P), 36/2(P), 36/3,36/4(P), 36/6(P), 36/7(P), in Rachenahalli Village, K.R.Puram Hobli. Bangalore (South),Total Area=7A-03 1/2G

SY.NOS: PC 4 82/1(P), 84(P), 85/1,98,114/1,114/2, 114/3,114/4, 114/5,115/3, 116/5, 123/1A, 124/2B, 124/3A. in Nagawara Village-Kasaba, Bangalore (North),Total Area=12A-27 1/4G. Sy. Nos: PC 5 81/8(P), 82/1,84(P), 85/3(P). in Nagawara Village-Kasaba, Bangalore (North). Total Area=01A-02G, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DOII/SVC/14549/PL.SANC/06-07 dated 26/09/2006 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete waffle slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

Potential Service Consultants (P) Ltd
Suraj Ganga Soft Park 34, 1st Main
3rd Phase J.P Nagar Bangalore 560 078
Tel : 91 80 2649 3122 (8 lines)
Fax: 91 80 2649 3217
email: inic@potentialconsultants
www.potentialconsultants.com

20 Years
OF EXCELLENCE
1987 - 2007

POTENTIAL
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It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on our periodic supervision and reports submitted by our supervision team and Project Management Team, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder - Principal Consultant
BCC/BL/3.2.3/E-310/87-88

T.S. Gururaj
Founder - Principal Consultant

B.R.V. Murthy
Founder - Principal Consultant

B.S.A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE
ESTD 1987

17th April 2009

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK – Blocks – L5

This is to certify that the building, **Block- L5 at MANYATA EMBASSY BUSINESS PARK** having ~~Wing A Basement + Ground Floor + 8 Upper Levels + Terrace~~, Wing Basement + Ground Floor +10 Upper Levels + Terrace with a total built-up area of 38,809.43 sq.mts. located at Sy.No. 99/1P, 99/2P,100/2 of Nagavara Village, Kasaba Hobli,Bangalore North Taluk is designed based on the architectural plans sanctioned vide LP: IADB/DO/ II /SUC/14549/plsanc / 08-09 Dated 13th January 2009 by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore – 560 001.

The structure is a reinforced concrete framed structure, floor plate is of flat slab with column drop system and peripheral beam and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 -2000 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on the supervision done by Project Management team M/s. Synergy Property Development Services Pvt. Ltd. vide confirmed by their letter dated 17th April 2009 and our supervision done occasionally, we are in a position to state and confirm that the structural work has been carried out in accordance with the drawings and specifications. The building is safe for beneficial occupation and for the purpose it is intended

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder-Principal Consultant
BCC/BL/3.2.3/E-310/87-88

Branch
10 Palayakaran Street Plot # 6 (Behind Jaya TV)
Ekkatuthangal Chennai - 600 097
302 Zeenath Residency Srinagar Colony
(Beside Food World) Hyderabad - 73
Ph 040 2373 4637
423 & 424 Srikanth Chambers Phase II
Next to RK Studio Sion Trombay Road
Chembur Mumbai - 400 071

Corporate Office
Potential Service Consultants (P) Ltd
Consulting Engineers
Suraj Ganga Soft Park 34 1st Main
3rd Phase J P Nagar Bangalore 560 078
Tel : 91 80 2649 3122
Fax : 91 80 2649 3217
www.potentialconsultants.com

T. S. Gururaj
Founder - Principal Consultant

B. R. V. Murthy
Founder - Principal Consultant

B. S. A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE

January 28, 2008

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK

LUCENT TECHNOLOGY PARK - E2

This is to certify that the building, **"MANYATA EMBASSY BUSINESS PARK - LUCENT TECHNOLOGY PARK - E2"** having Ground + Seven Upper floors, Terrace with total built-up area of 5,33,672 Sft. located at Sy.No SY.NOS:PC117(P),18/1,18/2,18/3,18/4,18/5,18/6,18/7,18/9,19/1,19/2,19/3,19/4,19/5,20/1,20/2,20/3,20/4,21,22/1,22/2,23/1,23/2,24,25/1(P), 26(P), 27/3, 27/4, 27/5, 27/6, 27/7, 27/8, 28/2A, 28/2B, 28/3(P), 28/5, 28/6, 36/5 in Rachenahalli Village, K.R.Puram Hobli. Bangalore (East). Total Area=37A-21G

Sy.Nos: PC283/3A, 83/3B, 83/4, 113/1, 113/2, 113/3, 114/2(P), 115/2, 116/4, 116/6, 117/1,121/1, 121/2, 122, 123/1A(P), 123/1B, 123/2, 124/1,124/2A & 124/3B in Nagawara Village-Kasaba, Bangalore (North), Total Area=18A-03 3/4G

Sy.Nos:PC381/8(P),83/1,83/2,85/4,85/5,85/6,85/7,85/9,99/1(P),99/2,99/3,100/2,103/5,103/6,105/1,105/2,105/3,105/4,106(P),110/1,110/2,110/3,111/1,111/2,111/3,111/4,111/5,111/6,112/1,112/2,112/3, 115/1,116/1,116/2A, 116/2B, 116/3, in Nagawara Village-Kasaba, Bangalore (North),Total Area=30A-21G

Sy Nos: 27/1,27/2,27/9,28/1(P), 29/2,29/3(P), 35/3B, 35/3C, 36/1(P), 36/2(P), 36/3,36/4(P), 36/6(P), 36/7(P), in Rachenahalli Village, K.R.Puram Hobli. Bangalore (South),Total Area=7A-03 1/2G

Potential Service Consultants (P) Ltd
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SY.NOS: PC 4 82/1(P), 84(P), 85/1,98,114/1,114/2, 114/3,114/4, 114/5,115/3, 116/5, 123/1A, 124/2B, 124/3A. in Nagawara Village-Kasaba, Bangalore (North),Total Area=12A-27 1/4G. Sy. Nos: PC 5 81/8(P), 82/1,84(P), 85/3(P) in Nagawara Village, Kasaba, Bangalore North, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DO II/14549/SVC/PL.Sanc/07-08 dated 29/05/2007 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete framed structure with column, beam and slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on our periodic supervision and reports submitted by our supervision team and Project Management Team, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder - Principal Consultant
BCC/BL/3.2.3/E-310/87-88

T.S. Gururaj
Founder - Principal Consultant

B.R.V. Murthy
Founder - Principal Consultant

B.S.A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE
ESTD 1987

June 25th , 2008

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - ANZ (Block-H1)

This is to certify that the building, **"MANYATA EMBASSY BUSINESS PARK - ANZ (Block-H1)** having Tower A Basement + Ground + 5 Upper floors, Terrace and Tower B Basement + Ground + 6 Upper floors, Terrace with total built-up area of 484132 Sft. located at Sy.No.113/1P,114/1P,114/2P,114/3P,114/4P,123/1P,123/1AP,124/1,124/2A, 124/2B,124/3A & 124/3B , in Nagawara Village, Kasaba Hobli, Bangalore North, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DOII/SUC/14549/PL.SANC/07-08 dated 21.09.2007 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete framed structure with column, beam and flat slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Branch
10 Palayakaran Street Plot # 6 (Behind Jaya TV)
Ekkatuthangal Chennai - 600 097
302 Zeenath Residency Srinagar Colony
(Beside Food World) Hyderabad - 73
Ph 040 2373 4637
423 & 424 Srikanth Chambers Phase II
Next to RK Studio Sion Trombay Road
Chembur Mumbai - 400 071

Corporate Office
Potential Service Consultants (P) Ltd
Consulting Engineers
Suraj Ganga Soft Park 34 1st Main
3rd Phase J P Nagar Bangalore 560 078
Tel : 91 80 2649 3122
Fax : 91 80 2649 3217
www.potentialconsultants.com

POTENTIAL
EXPERIENCE EXCELLENCE

Based on the supervision done by Project Management Synergy Property Development Services Pvt.Ltd. and their certificate issued on 25th June 2008 and our supervision done occasionally, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder-Principal Consultant
BCC/BL/3.2.3/E-310/87-88

T.'S. Gururaj
Founder - Principal Consultant

B. R. V. Murthy
Founder - Principal Consultant

B. S. A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE

Date: 10/04/09

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - BLOCK - C

This is to certify that the building Block C , **Consisting of Block C1, C2, & C3 and C4 at MANYATA EMBASSY BUSINESS PARK,** block C1 wing A & Wing B, Wing A Lower Basement floor + Upper Basement floor + Ground floor + 3 Upper floors & Terrace, wing B Lower basement floor + Upper Basement floor + Ground floor + 4 Upper Floors & Terrace.

Block C2 and Block C3, Block C2 having wing A & Wing B Basement floor + Ground floor + 8 upper floors & Terrace, Block C3 Basement floor + Ground floor + 12 upper floor & Terrace.

Block C4 Wing A Basement floor + Ground floor + 4 upper floor & Terrace floor and wing B Basement floor + Ground floor + 6 Upper floors & Terrace floor located at Sy No. 98, 99/2, 99/3, 106(P), 110/2, 110/3, 111/1, 111/2, 111/3, 111/4, 111/5, 111/6, 112/1, 112/2, 112/3, 113/1, 113/2, 113/3, 115/1, Nagavara Village, Kasaba Hobli, Bangalore North Taluk, Bangalore is designed

Potential Service Consultants (P) Ltd
Consulting Engineers
Suraj Ganga Soft Park 34
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Bangalore 560 078.
Tel : +91 80 2649 3122 (8 lines)
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OF EXCELLENCE
1987 - 2007

POTENTIAL
EXPERIENCE EXCELLENCE

based on the architectural plans sanctioned vide KIADB/DO II/14549/ SUC/PL-SANC/2007-08 dated 22/09/07 by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP house, 30 , Museum Road, Bangalore 560 001.

This structure is a reinforced concrete framed structure with column and flat slab with drops system for its floor plate and complying with Bureau of Indian Standards norms and safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS 875. The structure falls under Seismic Zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed. We also hereby confirm that quality tests done at site for the materials used and the works executed satisfies the design standards given by the Consultants.

Based on the supervision done by project Management team M/s. Synergy Property Development Services Pvt . Ltd. Vide confirmed by their letter dated 19th September 2008 and our supervision occasionally, we are in apposition to state and confirm that the structural work has been carried out in accordance with the drawings and specifications. The building is safe for beneficial occupation and the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
President
BCC/BL/3.2.3/E-310/87-88

RSP DESIGN CONSULTANTS (INDIA) PVT L
(Formerly Known as RSP ARCHITECTS PLANNERS & ENGINEERS (INDIA) PV
RSP HOUSE 30 MUSEUM ROAD BANGALORE 560001 INDIA TEL: (91) 80 2559 6868 4196 6868 FAX: (91) 80 2559 6818 EMAIL: rsp@rspindia.net Website: www.rspin

Chairman
Albert H K Hong BBM (L) DA (B'ham) DUniv (UCE) FSIA RIBA

Managing Director
Gopi Bhawnani B A (Hons) Eco MBA FMS

Directors
Lee Kut Cheung B Arch (Hong Kong) AA (London) Grad Dip (Hons) MSIA RIBA
Arunjot Singh Bhalla B Arch (Hons) S M Arch S (MIT, USA)
Kiran Uchil G D Arch
Anshu Mahajan B Arch
Rana Ram B Arch
Mukesh Bhogal B Arch
Gopal Rao B E (Electrical)

Associate Dir
Ashish Hazra
Rajiv Ghildiya
Dalip Singh
D Vishwanat
Carlito Lo So
Ramesh Josh

Our Ref: Your Ref: Date:

CERTIFICATE

I hereby certify that the erection of Block L5 of proposed development for information technology park on survey no 99/1(P), 99/2(P), 100/(P), Nagawara village, K.R puram hobli, Bangalore East. has been completed according to sanctioned plan. Sanctioned vide.KIADB/ DOII/14549/SUC/ PL-SANC/2008-2009 Dated 13/01/2009.

The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.

No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.

The building is fit for use for which it has been erected.

I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Architect :

Name of the Architect : Anshu Mahajan

Dated: 06/04/2009

RSP ARCHITECTS PLANNERS & ENGINEERS (INDIA) PVT LTD
RSP HOUSE 30 MUSEUM ROAD BANGALORE 560001 INDIA TEL: (91) 80 2559 6868 4196 6868 FAX: (91) 80 2559 6818 EMAIL: rsp@rspindia.net Website: www.rspindia.net

Chairman and Managing Director
Albert H K Hong BBM (L) DA (B'ham) DUniv (UCE) FSIA RIBA

Directors
Lai Huen Poh B Eng (Hons) MICE C Eng MIES P Eng AIStructE
Lee Kut Cheung B Arch (Hong Kong) AA (London) Grad Dip (Hons) MSIA RIBA
Gopi Bhawnani B A (Hons) Eco MBA FMS
Arunjot Singh Bhalla B Arch (Hons) S M Arch S (MIT, USA)
Kiran Uchil G D Arch
Anshu Mahajan B Arch
Rana Ram B Arch
Mukesh Bhogal B Arch
Gopal Rao B E (Electrical)

Associate Directors
Ashish Hazra
Rajiv Ghildiyal
Dalip Singh
D Vishwanathan
Carlito Lo Sosito
Ramesh Joshi

Our Ref: Your Ref: Date:

COMPLETION CERTIFICATE

I hereby certify that the erection of the proposed high rise office building (Block-H1) at Manyata Embassy Business Park, bearing survey No.113/1P, 114/1P, 114/2P, 114/3P, 114/4P, 121/1P 121/2P 123/1AP, 124/1, 124/2A, 124/2B, 124/3A & 124/3B, Nagavara Village, Kasaba Hobli, Bangalore North Taluk has been supervised by me and has been compieted according to sanctioned plans vide **IADB/DOII/SUC/14549/PL.SANC/07-08** dated **21-09-2007.**
The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.

No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.

The building is fit for use for which it has been erected.

I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Registered Architect

Name of the Architect ANSHU MAHAJAN

Dated : 19/06/2008

SINGAPORE
RSP Architects Planners & Engineers (Pte) Ltd
Singapore 229 219

HYDERABAD
RSP Architects Planners & Engineers (India) Pvt Ltd
Hyderabad 500 034

MUMBAI
RSP Architects Planners & Engineers (India) Pvt Ltd
Mumbai 400 021

CHENNAI
RSP Architects Planners & Engineers (India) Pvt Ltd
Chennai 600 032

KUALA LUMPUR
RSP Akitek
Kuala Lumpur
Malaysia

DUBAI
RSP (MIDDLE EAST) FZCO
Dubai
United Arab Emirates

BEIJING
RSP, SM Consultants Beijing Co. Ltd
Beijing 100022
China

SHANGHAI
RSP, SM Consultants Beijing Co. Ltd
Shanghai 200 041
China

VIETNAM
RSP Architects Planners & Engineers (Vietnam) Co. Ltd
Ho Chi Minh City
Vietnam

RSP ARCHITECTS PLANNERS & ENGINEERS (INDIA) PVT LTD
RSP HOUSE 30 MUSEUM ROAD BANGALORE 560001 INDIA TEL: (91) 80 2559 6868 4196 6868 FAX: (91) 80 2559 6818 EMAIL: rsp@rspindia.net Website: www.rspindia.net

Chairman and Managing Director
Albert H K Hong BBM (L) DA (Bllarch) DUniv (UCE) FSIA RIBA

Directors
Lai Huen Poh B Eng (Hons) MICE C Eng MIES P Eng MStructE
Lee Kul Cheung B Arch (Hong Kong) AA (London) Grad Dip (Hons) MSIA RIBA
Gopi Bhawnani B A (Hons) Fco MBA FMS
Director - Design
Arunjot Singh Bhalla B Arch (Hons) S M Arch S (MIT, USA)

Associate Directors
Kiran Uchil
Ashish Hazra
Anshu Mahajan
Rana Ram
Mukesh Bhagat

Our Ref: Your Ref: Date:

SCHEDULE VIII

(BYE-LAW 5.5)
FORM FOR COMPLETION CERTIFICATE

I hereby certify that the erection of Building **D4** on
SY.NOS:PC117(P),18/1,18/2,18/3,18/4,18/5,18/6,18/7,18/9,19/1,19/2,19/3,19/4,19/5,20/1,20/2,20/3,20/4,21,22/1,22/2,23/1,23/2,24,25/1(P), 26(P), 27/3,27/4,27/5,27/6,27/7,27/8,28/2A, 28/2B, 28/3(P), 28/5,28/6,36/5. IN RACHENAHALLI VILLAGE, K.R.PURAM HOBLI. BANGALORE (EAST). TOTAL AREA=37A-21G
SY.NOS: PC283/3A, 83/3B, 83/4,113/1,113/2,113/3,114/2(P), 115/2,116/4,116/6,117/1,121/1,121/2,122,123/1A(P), 123/1B, 123/2, 124/1,124/2A &124/3B.IN NAGAWARA VILLAGE-KASABA, BANGALORE (NORTH),TOTAL AREA=18A-03 3/4G
SY.NOS:PC381/8(P),83/1,83/2,85/4,85/5,85/6,85/7,85/9,99/1(P),99/2,99/3,100/2,103/5,103/6,105/1,105/2,105/3,105/4,106(P), 110/1, 110/2,110/3,111/1,111/2,111/3,111/4,111/5,111/6,112/1,112/2,112/3,115/1,116/1,116/2A, 116/2B, 116/3, IN NAGAWARA VILLAGE-KASABA,BANGALORE (NORTH),TOTAL AREA=30A-21G
SY NOS: 27/1,27/2,27/9,28/1(P), 29/2,29/3(P), 35/3B, 35/3C, 36/1(P), 36/2(P), 36/3,36/4(P), 36/6(P),136/7(P), IN RACHENAHALLI VILLAGE, K.R.PURAM HOBLI. BANGALORE (SOUTH),TOTAL AREA=7A-03 1/2G
SY.NOS: PC 4 82/1(P), 84(P), 85/1,98,114/1,114/2,114/3,114/4,114/5,115/3,116/5,123/1A, 124/2B, 124/3A. IN NAGAWARA VILLAGE-KASABA, BANGALORE (NORTH),TOTAL AREA=12A-27 1/4G.
SY. NOS: PC 5 81/8(P), 82/1,84(P), 85/3(P).
IN NAGAWARA VILLAGE- KASABA, BANGALORE (NORTH). TOTAL AREA=01A-02G, has been supervised by me and has been completed according to sanctioned plans sanctioned vide,
KIADB/DOII/SVC/14549/PL.SANC/06-07. dated 26/09/2006. The work has been completed to my satisfaction.
The workmanship and all the materials have been used in accordance with the general specifications.
No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.
The building is fit for use for which it has been erected.
I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Registered Architect :

Name of the Architect : **KIRAN UCHIL**

Reg. No. Of the Architect : **BCC/BL/3.2.3-A-914/2000-01**

Dated : _____.

RSP DESIGN CONSULTANTS (INDIA) PVT LTD
(Formerly Known as RSP ARCHITECTS PLANNERS & ENGINEERS (INDIA) PVT LTD)
RSP HOUSE 30 MUSEUM ROAD BANGALORE 560001 INDIA TEL: (91) 80 2559 6868 4196 6868 FAX: (91) 80 2559 6818 EMAIL: rsp@rspindia.net Website: www.rspindia.net

Our Ref: Your Ref: Date:

CERTIFICATE

I hereby certify that the erection of Block C1, C2, C3 & C4 of proposed development for information technology park on survey no
98(P), 99/2(P), 99/3(P), 106(P), 110/2(P), 110/3(P), 111/1, 111/2, 111/3, 111/4, 111/5, 111/6(P), 112/1, 112/2, 112/3(P), 113/1,113/2(P), 115/1(P) Rachenahalli village,
K.R puram hobli, Bangalore East. has been completed according to sanctioned plan.
Sanctioned vide KIADB/ DOII/14549/SUC/ PL-SANC/2007-2008 Dated 22/09/2007

The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.

No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.

The building is fit for use for which it has been erected.

I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Architect :

Name of the Architect : Anshu Mahajan

Dated: 14/04/2009

RSP ARCHITECTS PLANNERS & ENGINEERS (INDIA) PVT LTD
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Chairman and Managing Director
Albert H K Hong BBM (L) DA (B'ham) DUniv (UCT) FSIA RIBA

Directors
Lai Huen Poh B Eng (Hons) AMCE C Eng MIES P Eng AIStructE
Lee Kut Cheung B Arch (Hong Kong) AA (London) Grad Dip (Hons) MSIA RIBA
Gopi Bhawnani B A (Hons) Eco MBA FMS
Director - Design
Arunjot Singh Bhalla B Arch (Hons) S M Arch S (MIT, USA)

Associate Directors
Kiran Uchil
Ashish Hazra
Anshu Mahajan
Rana Ram
Mukesh Bhogal

Our Ref: Your Ref: Date:

SCHEDULE VIII

(BYE-LAW 5.5)
FORM FOR COMPLETION CERTIFICATE

I hereby certify that the erection of building 'E2' on
SY.NOS:PC1 17(P),18/1,18/2,18/3,18/4,18/5,18/6,18/7,18/9,19/1,19/2,19/3,19/4,19/5,20/1, 20/2,20/3,20/4,21,22/1,22/2,23/1,23/2,24,25/1(P),26(P),27/3,27/4,27/5,27/6,27/7,27/8,28/2A, 28/2B,28/3(P), 28/5,28/6,36/5, IN RACHENAHALLI VILLAGE, K.R.PURAM HOBLI, BANGALORE(EAST). TOTAL AREA=37A-21G.
SY.NOS:PC2 83/3A,83/3B,83/4,113/1,113/2,113/3,114/2(P),115(2),116(4)116/6,117/1,121/1, 121/2,123/1A(P),123/1B,123/2,124/1,124/2A & 124/B IN NAGAWARA VILLAGE-KASABA, BANGALORE (NORTH), TOTAL AREA = 18A-03 3/4G.
SY.NOS:PC3 81/8(P),83/1,83/2,85/4,85/5,85/6,85/7,85/9,99/1(P),99/2,99/3,100/2,103/5,103/6, 105/1,105/2,105/3105/4,106(P),110/1,110/2,110/3,11/1,111/2,111/3,111/4,111/5,111/6,112/1,112/2,112/3,115/1,116/1,116/2A,116/2B116/3, IN NAGAWARA VILLAGE-KASABA , BANGALORE NORTH, TOTAL AREA 30A-12G.
SY.NOS:27/1,27/2,27/9,,28/2(P),29/2,29/3(P),35/3B,35/3C,36/1(P),36/2(P),36/3,36/4(P),36/6(P),36/7(P) IN RACHENAHALLI VILLAGE, K.R.URAM HOBLI, BANGALORE (SOUTH), TOTAL AREA = 7A-03 1/2G
SY.NOS:PC4 82/1(P),84(P),85/1,98,114/1,114/2114/3,114/4114/5,115/3,116/5,123/1A, 124/2B,124/3A, IN NAGAWARA VILLAGE-KASABA, BANGALORE (NORTH), TOTAL AREA=12A-27 1/4G.
SY.NOS:PC5 81/8(P),82/1,84(P),85/3(P),
IN NAGAWARA VILLAGE-KASABA, BANGALORE(NORTH). TOTAL AREA = 01A-02G, has been supervised by me and has been completed according to sanctioned plans sanctioned vide,
KIADB/DOII/SVC/14549/PL.SANC/05-06 DATED 19/12/2005. The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.
No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.
The building is fit for use for which it has been erected.
I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Registered Architect :

Name of the Architect : KIRAN UCHIL

Reg No. Of the Architect : BCC/BL/3.2.3/A-914/2000-01

T.S. Gururaj
Founder - Principal Consultant

B.R.V. Murthy
Founder - Principal Consultant

B.S.A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE
ESTD 1987

15th January 2009

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - Blocks - F2

This is to certify that the building, **Block- F2 at MANYATA EMBASSY BUSINESS PARK** having Wing A Basement + Ground Floor + 8 Upper Levels + Terrace, Wing B Basement + Ground Floor +10 Upper Levels + Terrace with a total built-up area of 9,26,371.368 sft. located at Sy.No. 17P,18/1,18,/,18/6,19/4,20/1 & 21 of Rachenahalli Village, K.R.Puram Hobli, Bangalore East Taluk is designed based on the architectural plans sanctioned vide KIADB/ DOB/Sve/14549/ PL-SANC/07-08 Dated 21st September 2007 by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete framed structure with column and flat slab with drops head system and peripheral beam for its floor plates and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 -2000 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed. . We also hereby confirm that quality tests done at site for the materials used and the works executed satisfies the design standards given by the Consultants.

Branch
10 Palayakaran Street Plot # 6 (Behind Jaya TV)
Ekkatuthangal Chennai - 600 097
302 Zeenath Residency Srinagar Colony
(Beside Food World) Hyderabad - 73
Ph 040 2373 4637
423 & 424 Srikanth Chambers Phase II
Next to RK Studio Sion Trombay Road
Chembur Mumbai - 400 071

Corporate Office
Potential Service Consultants (P) Ltd
Consulting Engineers
Suraj Ganga Soft Park 34 1st Main
3rd Phase J P Nagar Bangalore 560 078
Tel : 91 80 2649 3122
Fax : 91 80 2649 3217
www.potentialconsultants.com

POTENTIAL
EXPERIENCE EXCELLENCE

Based on the supervision done by Project Management team M/s. Synergy Property Development Services Pvt. Ltd. vide confirmed by their letter dated 6th January 2009 and our supervision done occasionally, we are in a position to state and confirm that the structural work has been carried out in accordance with the drawings and specifications. The building is safe for beneficial occupation and for the purpose it is intended

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder-Principal Consultant
BCC/BL/3.2.3/E-310/87-88

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Chairman
Albert H K Hong BBM (L) DA (B'ham) DUniv (UCE) FSIA RIBA

Managing Director
Gopi Bhawnani B A (Hons) Eco MBA FMS

Directors
Lee Kut Cheung B Arch (Hong Kong) AA (London) Grad Dip (Hons) MSIA RIBA
Arunjot Singh Bhalla B Arch (Hons) S M Arch S (MIT, USA)
Kiran Uchil G D Arch
Anshu Mahajan B Arch
Rana Ram B Arch
Mukesh Bhagal B Arch
Gopal Rao B E (Electrical)

Associate Directors
Ashish Hazra
Rajiv Ghildiyal
Dalip Singh
D Vishwanathan
Carlito Lo Sosito
Ramesh Joshi

Our Ref: Your Ref: Date:

CERTIFICATE

I hereby certify that the erection of Block F2 of proposed development for information technology park on survey no
98(P), 99/2(P), 99/3(P), 106(P), 110/2(P), 110/3(P), 111/1, 111/2, 111/3, 111/4, 111/5, 111/6(P), 112/1, 112/2, 112/3(P), 113/1,113/2(P), 115/1(P) Rachenahalli village,
K.R puram hobli, Bangalore East. has been completed according to sanctioned plan.
Sanctioned vide.KIADB/ DOII/14549/SUC/ PL-SANC/2007-2008 Dated 22/09/2007

The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.

No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.

The building is fit for use for which it has been erected.

I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Architect :

Name of the Architect : Anshu Mahajan

Dated: 02/01/2009

RSP DESIGN CONSULTANTS (INDIA) PVT LTD
(Formerly Known as RSP ARCHITECTS PLANNERS & ENGINEERS (INDIA) PVT LTD)
RSP HOUSE 30 MUSEUM ROAD BANGALORE 560001 INDIA TEL: (91) 80 2559 6868 41966868 FAX: (91) 80 2559 6818 EMAIL: rsp@rspindia.net Website: www.rspindia.net

Chairman
Albert H K Hong BBM (L) DA (B'hom) DUniv (UCE) FSIA RIBA
Managing Director
Gopi Bhawnani B A (Hons) Eco MBA FMS
Executive Director
Arunjot Singh Bhalla B Arch (Hons) S M Arch S (MIT, USA)

Directors
Lee Kut Cheung B Arch (Hong Kong) AA (London) Grad Dip (Hons) MSIA RIBA
Kiron Uchil G D Arch
Anshu Mahajan B Arch
Rana Ram S Arch
Mukesh Bhogal B Arch
Ashish Hazra Dip in Arch (CEPT) S M Arch S (MIT, USA)

D S Manohar B E (Arch)
D Vishwanathan M Arch (Urban Design)
Atul Bhandari B Arch
Lalit Narula B Arch

Our Ref: Your Ref: Date:

CERTIFICATE

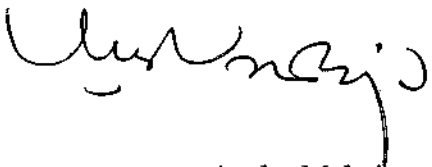
I hereby certify that the erection of Block G4 of proposed development for information technology park on survey no 18/3p,19/1p,19/2p,19/3p,19/5p,20/1p,20/2p,20/3p,21p of Rachenahalli village, K.R puram hobli, Bangalore East. has been completed according to sanctioned plan. Sanctioned vide.KIADB/ DO-II//SUC/14549/ PL-SANC/2008-2009 Dated 02/02/2009.

The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.

No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.

The building is fit for use for which it has been erected.

I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Architect : 

Name of the Architect : Anshu Mahajan

Dated: 01/08/2012

Innotech Engineering Consult Pvt Ltd

Engineering Designs | Value Engineering | Estimation | Re-Engineering | Innovations

31st July 2012

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the STRUCTURAL DESIGNS for the at Manyata IT Building Block G4 comprising of 2 Basement +Ground +10 Office Floors, on Survey No.18/3P, 19/1P, 19/2P, 19/3P, 19/5P,20/1P,20/2P,20/3P,21/P, of rachenahalli Village and, K.R.Puram Hobli, Bangalore East Taluk, belonging to **M/S Manyata Embassy Business Park,** is designed based on the architectural plans submitted to Concerned Development Authority Wide approval **Ref #** KIADB\DO-II\SUC\14549\PL-SANC\08-09 dated 02/02/09. The structure is a reinforced concrete framed structure with column and flat slab system for office floors & waffle slab system for Podium and basement Floors and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF;

The structure is a reinforced concrete framed structure with column and flat slab system for Office Floors; waffle slab system for Podium slab and parking floors is complying with the Bureau of Indian Standard norms

All the above structures are designed in accordance with IS: 456 and IS: 875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is designed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis of the towers are done using the standard commercially available software STAADPRO-2004, STRAP E Tabs and are designed for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm2

CONSTRUCTION SUPERVISION

The Project is supervised by a team of engineers from M/s Synergy Property Development Services Pvt Ltd for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated 03/02/2012 Issued by M/S Synergy Property Development Services Pvt Ltd which confirms that the construction

No. 457, 2nd Floor, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore - 560 076.
Ph.: +91 80-41426325 Mob : +91 99801 20100 / +91 97413 99608 E-mail : innotech@innotechconsult.in

Innotech Engineering Consult Pvt Ltd

Engineering Designs | Value Engineering | Estimation | Re-Engineering | Innovations

17th January 2013

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the STRUCTURAL DESIGNS for the at Manyata IT Building Block F3 (Palm) comprising of **Wing A having 2 Basement + Ground + 10 Office Floors + Terrace, and Wing B & MLCP having 2 Basement + Ground + 11 Office Floors + Terrace** on Survey No.18/1P, 18/2P, 18/6P, 19/2P, 19/3P, 19,4P, 20/P of Rachenahalli Village and 57/1P & 57/2P of Thanisandra Village, K.R.Puram Hobli, Bangalore East Taluk, belonging to **M/S Manyata Embassy Business Park,** is designed based on the architectural plans submitted to Concerned Development Authority Wide approval **Ref # KIADB/DO-II/SUC/14549/PL-SANC/2011-12 dated 06/02/2012.** The structure is a reinforced concrete framed structure with column and flat slab system for office floors and waffle slab system for Podium and basement Floors and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

The above mentioned building is completed till Terrace of Wing A, 10 floor of Wing B and 8th Floor of MLCP.

DESIGN BRIEF;

The structure is a reinforced concrete framed structure with column and flat slab system for Office Floors; waffle slab system for Podium slab and parking floors is complying with the Bureau of Indian Standard norms

All the above structures are designed in accordance with IS: 456 and IS: 875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is designed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis of the towers are done using the standard commercially available software STAADPRO-2004, STRAP E Tabs and are designed for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm2

Innotech Engineering Consult Pvt Ltd Bangalore

457, 2nd Floor, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore - 560 076
Ph.: +91 80 - 26780996 / 26789101 / 41426325
E-mail : innotech@innotechconsult.in Web : www.innotechconsult.in

CONSTRUCTION SUPERVISION

The Project is supervised by a team of engineers from M/s Synergy Property Development Services Pvt Ltd for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project

Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated 17/01/2013 Issued by **M/S Synergy Property Development Services Pvt Ltd** which confirms that the construction Work has been done on the GFC drawings issues by the consultants and has met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

H.P.Yogesh
Director

Innotech Engineering Consult Pvt Ltd Bangalore

Regn# BCC - BI/3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by **M/S Synergy Property Development Services Pvt Ltd.**

457, 2nd Floor, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore - 560 076
Ph.: +91 80 - 26780996 / 26789101 / 41426325
E-mail : innotech@innotechconsult.in Web : www.innotechconsult.in

SYNERGY

SYNERGY PROPERTY DEVELOPMENT SERVICES PVT. LTD.
First Floor, 'Pine Valley'
Embassy Golf Links Business Park
Off Intermediate Ring Road
Bangalore - 560071, India
t: +91.80.4288.6000
f. +91.80.4112.0425/6
w: www.synergyind.com

17th January 2013

COMPLETION CERTIFICATE AND STABILITY

We M/s Synergy hereby certify that the Erection of building **Block 'F3 (Palm)' at Manyata Embassy Business Park** on **Survey No.18/1P, 18/2P, 18/6P, 19/1P, 19/2P, 19/3P, 19/4P, 20/P of Rachenahalli and 57/1P & 57/2P** of Thanisandra Village, K R Puram Hobli, Bangalore East, Bangalore city district, has been Supervised by our team of engineers for the works executed by the main civil contractor **M/s B L Kashyap & Sons** and had been completed till terrace of Wing-A, tenth floor of Wing-B and 8th floor of MLCP based on the structural drawings issued and architectural plans submitted & approved by **KIADB** by approval **Ref** KIADB/DO-II/SUC/14549/PL-SANC/2011-12 **dated** 06/02/2012.

We are herewith confirming the implementation of design specifications, drawings and the methodology as issued to our project team from our consultants.

We also reaffirm that the quality of materials including cement, sand and aggregates, chemicals, reinforcing steel, structural steel are to proven quality and are tested and certified by manufactures and independent agencies.

The concrete produced at batching plants are managed by highly sophisticated computerized plants and are to the design standards, grades varying from M25 to M45 as per the design mix approved by our consultants.

SYNERGY

SYNERGY PROPERTY DEVELOPMENT SERVICES PVT. LTD.
First Floor, 'Pine Valley'
Embassy Golf Links Business Park
Off Intermediate Ring Road
Bangalore - 560071, India
t: +91.80.4288.6000
f. +91.80.4112.0425/6
w: www.synergyind.com

17th January 2013

COMPLETION CERTIFICATE AND STABILITY

We M/s Synergy hereby certify that the Erection of building **Block 'F3 (Palm)' at Manyata Embassy Business Park** on **Survey No.18/1P, 18/2P, 18/6P, 19/1P, 19/2P, 19/3P, 19/4P, 20/P of Rachenahalli and 57/1P & 57/2P** of Thanisandra Village, K R Puram Hobli, Bangalore East, Bangalore city district, has been Supervised by our team of engineers for the works executed by the main civil contractor **M/s B L Kashyap & Sons** and had been completed till terrace of Wing-A, tenth floor of Wing-B and 8th floor of MLCP based on the structural drawings issued and architectural plans submitted & approved by **KIADB** by approval **Ref** KIADB/DO-II/SUC/14549/PL-SANC/2011-12 **dated** 06/02/2012.

We are herewith confirming the implementation of design specifications, drawings and the methodology as issued to our project team from our consultants.

We also reaffirm that the quality of materials including cement, sand and aggregates, chemicals, reinforcing steel, structural steel are to proven quality and are tested and certified by manufactures and independent agencies.

The concrete produced at batching plants are managed by highly sophisticated computerized plants and are to the design standards, grades varying from M25 to M45 as per the design mix approved by our consultants.

CONSTRUCTION SUPERVISION

The Project is supervised by a team of engineers from M/s Synergy Property Development Services Pvt Ltd for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project

Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated 17/01/2013 Issued by **M/S Synergy Property Development Services Pvt Ltd** which confirms that the construction Work has been done on the GFC drawings issues by the consultants and has met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

H.P.Yogesh
Director

Innotech Engineering Consult Pvt Ltd Bangalore

Regn# BCC - BL/3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by **M/S Synergy Property Development Services Pvt Ltd.**

457, 2nd Floor, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore - 560 076
Ph.: +91 80 - 26780996 / 26789101 / 41426325
E-mail : innotech@innotechconsult.in Web : www.innotechconsult.in

mahimtura consultants pvt. ltd.

• consulting engineers
• project management consultants

Dir. : S. R. MAHIMTURA B.S. (U.S.A) F.I.E.,D.B.M
Dir. : H. R. MAHIMTURA B.E., M.S.(U.S.A.), F.I.E.
Tel. : 91-22-4368 5000 / 2266 1212
Fax : 91-22-2266 2227

Date : 15th January, 2021

To,

Manyata Promotors Pvt. Ltd.
Manyata Embassy Campus,
Opp. to BEL Corporate Office, Nagavara,
Hebbal Ring Road, Bengaluru,
Karnataka - 560 045

Sub. : Structural stability certificate for your building "G1 Block" at "Manyata Embassy Campus, Opp. to BEL Corporate Office, Nagavara, Hebbal Ring Road, Bengaluru, Karnataka - 560 045.

Dear Sir,

This is to certify that we had carried out structural audit & all NDT tests of your above building for which we have already submitted the report in year 2020/21.

We would like to mention that we does not find any major structural abnormity while visual survey & NDT tests except certain leakages issued from exterior wall / terrace / toilet and some minor cracks in walls / trimix flooring which need to be attended in near future to keep the structural integrity & durability of the building for long run.

Other wise the building as whole is structurally sound and safe for the purpose which has been intended for to the best of my knowledge & belief as on date.

Thanking you,

Yours sincerely,
For **Mahimtura Consultants Pvt. Ltd.**

MAHIMTURA CONSULTANTS (P) LTD. MUMBAI

H.R. MAHIMTURA
(Director)

e-mail: repair@mahimtura.net Website: www.mahimtura.com

Administrative Office : 25, Unique House, 3rd Floor, S. A. Brelvi Road, Fort, Mumbai - 400 001.
Branch Office : 10, Ground Floor, Poes Main Road, Teynampet, Chennai - 600 018, Ph: (044) 2432 9989 E-mail: brchennaimcpl@gmail.com
Branch Office : 701, Mittal Tower, 'B' Wing, New No. 21, Old No. 6, M.G. Road, Bangalore - 500 001.
Branch Office : G-1, Parmar Trade Centre, Connaught Road, Pune - 411 001. Ph: (020) 6601 2240/41 Fax: (020) 30525438 E-mail: pune@mahimtura.net
Branch Office : Plot No. 18, S.Y. No. 48/1, PDA Colony, Near River View Colony, Rels Magos Village, Alto, Porvorim, Goa - 403 521.
Ph: (0832) 6511436. E-mail: mcplgoa@yahoo.co.in

31st Aug 2015

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the **STRUCTURAL DESIGNS** for the Office Building **Block 'G3 (Teak)** comprising of 2 Basements + Ground floor + 10 Office Floors + Terrace **and G6 MLCP Block** comprising of 2 Basements + Ground floor + 12 Floors + Terrace, at **Manyata Embassy Business Park** on Survey No. 18/1P, 18/2P, 18/3, 18/4, 18/5, 18/6P, 18/7, 18/8, 18/9 and 20/4 of Rachenahalli Village, and Survey No. 57/1P, 57/2P of Thanisandra Village, K R Puram Hobli, Bengaluru East Taluk, Bengaluru, belonging to **M/s Manyata Promoters Pvt Ltd.** is designed based on the architectural plans submitted to Concerned Development Authority KIADB **Ref KIADB/DO-II/SUC/14549/PL-SANC/2012-13 Dated 30/08/2012**. The structure is a reinforced concrete framed structure with waffle slab system for Podium and basement Floors for both buildings with column and flat slab system for office floors (Block G3) and Conventional beam slab system for upper floors in MLCP Block and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF:

The structure is a reinforced concrete framed structure with waffle slab system for Podium and basement Floors for both buildings with column and flat slab system for office floors (Block G3) and Conventional beam slab system for upper floors in MLCP Block and is complying with the Bureau of Indian Standard norms

All the above structures are designed in accordance with IS:456 and IS:875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is designed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis for building is done using the standard commercially available software's SAFE, E-Tabs and is designed for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm^2 (Fe-500).

Cont...

Innotech Engineering Consult Pvt Ltd
No 457, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore – 560076
CIN: U74900KA2010PTC053179
T: +91 80 2678 0996 / 2678 9101 / 4142 6325
E-mail: innotech@innotechconsult.in / Website: www.innotechconsult.in

CONSTRUCTION SUPERVISION:

The Project is supervised by a team of engineers from **M/s Synergy Property Development Services Pvt Ltd** for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated **28/08/2015** issued by **M/s Synergy Property Development Services Pvt Ltd** which confirms that the construction work has been done on the GFC drawings issues by the consultants and have met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

Innotech Engineering Consult Pvt. Ltd. Bangalore

H.P.Yogesh
Director.
Regn # B C C -BL /3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by **M/s Synergy Property Development Services Pvt Ltd., Dated 28/08/2015.**

Innotech Engineering Consult Pvt Ltd
No 457, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore – 560076
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RSP DESIGN CONSULTANTS (INDIA) PVT LTD

RSP HOUSE 30 MUSEUM ROAD BANGALORE 560001 INDIA TEL: (91) 80 2559 6868 4196 6868 FAX: (91) 80 2559 6818 EMAIL: rsp@rspindia.net Website: www.rspindia.net

Chairman
Albert H K Hong BBM (L) DA (B'hom) DUniv (UCE) FSIA RIBA
Managing Director
Gopi Bhawnani B A (Hons) Eco MBA FMS
Executive Director
Arunjot Singh Bhalla B Arch (Hons) S M Arch S (MIT, USA)

Directors
Lee Kut Cheung B Arch (Hong Kong) AA (London) Grad Dip (Hons) MSIA RIBA
Kiran Uchil G D Arch
Anshu Mahajan B Arch
Rana Ram B Arch
Mukesh Bhagal B Arch
Ashish Hazra Dip in Arch (CEPT) S M Arch S (MIT, USA)

D S Manohar B E (Mech)
D Vishwanathan M Arch (Urban Design)
Atul Bhandari B Arch
Lalit Narula B Arch

Our Ref: Your Ref: Date:

CERTIFICATE

I hereby certify that the erection of Block G4 of proposed development for information technology park on survey no 18/3p,19/1p,19/2p,19/3p,19/5p,20/1p,20/2p,20/3p,21p of Rachenahalli village, K.R puram hobli, Bangalore East. has been completed according to sanctioned plan. Sanctioned vide.KIADB/ DO-II//SUC/14549/ PL-SANC/2008-2009 Dated 02/02/2009.

The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.

No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.

The building is fit for use for which it has been erected.

I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Architect :

Name of the Architect : Anshu Mahajan

Dated: 02/02/2012

Innotech Engineering Consult Pvt Ltd

Engineering Designs | Value Engineering | Estimation | Re-Engineering | Innovations

08th February 2012

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the STRUCTURAL DESIGNS for the at Manyata IT Building Block G4 comprising of 2 **Basement +Ground +10 Office Floors**, on Survey No. 18/3P,19/1P,19/2P,19/3P,19/5P ,20/1P, 20/2P, 20/3P, 21/P, of rachenahalli Village and, K.R.Puram Hobli, Bangalore East Taluk, belonging to **M/S Manyata Embassy Business Park,** is designed based on the architectural plans submitted to Concerned Development Authority Wide approval **Ref #** KIADB\DO-II\SUC\14549\PL-SANC\08-09 dated 02/02/09. The structure is a reinforced concrete framed structure with column and flat slab system for office floors & waffle slab system for Podium and basement Floors and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF;

The structure is a reinforced concrete framed structure with column and flat slab system for Office Floors; waffle slab system for Podium slab and parking floors is complying with the Bureau of Indian Standard norms

All the above structures are designed in accordance with IS: 456 and IS: 875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is designed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis of the towers are done using the standard commercially available software STAADPRO-2004, STRAP E Tabs and are designed for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm2

CONSTRUCTION SUPERVISION

The Project is supervised by a team of engineers from M/s Synergy Property Development Services Pvt Ltd for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated 03/02/2012 issued

Innotech Engineering Consult Pvt Ltd. BANGALORE

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Innotech Engineering Consult Pvt Ltd

Engineering Designs | Value Engineering | Estimation | Re-Engineering | Innovations

by M/s Synergy Property Development Services Pvt Ltd which confirms that the construction work has been done on the GFC drawings issues by the consultants and has met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

H.P.Yogesh

Director.

Regn # B C C -BL /3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by **M/S Synergy Property Development Services Pvt Ltd.**

Innotech Engineering Consult Pvt Ltd. ★ BANGALORE

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Rana Ram B Arch
Mukesh Bhogal B Arch
Ashish Hazra Dip in Arch (CEPT) S M Arch S (MIT, USA)

D S Manohar B E (Mech)
D Vishwanathan M Arch (Urban Design)
Atul Bhandari B Arch
Lalit Narula B Arch

Our Ref: Your Ref: Date:

CERTIFICATE

I hereby certify that the erection of Block G2 of proposed development for information technology park on survey no ,20/2p,20/3p,20/4p,21p,22/2p of Rachenahalli village, K.R puram hobli, Bangalore East. has been completed according to sanctioned plan. Sanctioned vide.KIADB/ DO-II//SUC/14549/ PL-SANC/2008-2009 Dated 02/02/2009.

The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.

No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.

The building is fit for use for which it has been erected.

I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Architect :

Name of the Architect : Anshu Mahajan

Dated: 03/02/2012

Innotech Engineering Consult Pvt Ltd

Engineering Designs | Value Engineering | Estimation | Re-Engineering | Innovations

08th February 2012

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the STRUCTURAL DESIGNS for the at Manyata IT Building Block G2 comprising of 2 **Basement +Ground +8 Office Floors**, on Survey No.20/2P, 20/3P, 20/4P, 21P, 22/2P of rachenahalli Village and, K.R.Puram Hobli, Bangalore East Taluk, belonging to **M/S Manyata Embassy Business Park,** is designed based on the architectural plans submitted to Concerned Development Authority Wide approval Ref # KIADB\DO-II\SUC\14549\PL-SANC\08-09 dated 02/02/09. The structure is a reinforced concrete framed structure with column and flat slab system for office floors & waffle slab system for Podium and basement Floors and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF;

The structure is a reinforced concrete framed structure with column and flat slab system for Office Floors; waffle slab system for Podium slab and parking floors is complying with the Bureau of Indian Standard norms

All the above structures are designed in accordance with IS: 456 and IS: 875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is designed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis of the towers are done using the standard commercially available software STAADPRO-2004, STRAP E Tabs and are designed for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm2

CONSTRUCTION SUPERVISION

The Project is supervised by a team of engineers from M/s Synergy Property Development Services Pvt Ltd for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated 03/02/2012 Issued

Innotech Engineering Consult Pvt Ltd. BANGALORE

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by **M/s Synergy Property Development Services Pvt Ltd** which confirms that the construction work has been done on the GFC drawings issues by the consultants and has met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

H.P.Yogesh

Director.

Regn # B C C -BL /3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by **M/S Synergy Property Development Services Pvt Ltd.**

Innotech Engineering Consult Pvt. Ltd. ★ BANGALORE

No. 457, 2nd Floor, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore - 560 076.
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T.S. Gururaj
Founder - Principal Consultant

B.R.V. Murthy
Founder - Principal Consultant

B.S.A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE
ESTD 1987

15th January 2009

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - Blocks - F2

This is to certify that the building, **Block- F2 at MANYATA EMBASSY BUSINESS PARK** having Wing A Basement + Ground Floor + 8 Upper Levels + Terrace, Wing B Basement + Ground Floor +10 Upper Levels + Terrace with a total built-up area of 9,26,371.368 sft. located at Sy.No. 17P,18/1,18,/,18/6,19/4,20/1 & 21 of Rachenahalli Village, K.R.Puram Hobli, Bangalore East Taluk is designed based on the architectural plans sanctioned vide KIADB/ DOB/Sve/14549/ PL-SANC/07-08 Dated 21st September 2007 by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete framed structure with column and flat slab with drops head system and peripheral beam for its floor plates and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 -2000 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed. . We also hereby confirm that quality tests done at site for the materials used and the works executed satisfies the design standards given by the Consultants.

Branch
10 Palayakaran Street Plot # 6 (Behind Jaya TV)
Ekkatuthangal Chennai - 600 097
302 Zeenath Residency Srinagar Colony
(Beside Food World) Hyderabad - 73
Ph 040 2373 4637
423 & 424 Srikanth Chambers Phase II
Next to RK Studio Sion Trombay Road
Chembur Mumbai - 400 071

Corporate Office
Potential Service Consultants (P) Ltd
Consulting Engineers
Suraj Ganga Soft Park 34 1st Main
3rd Phase J P Nagar Bangalore 560 078
Tel : 91 80 2649 3122
Fax : 91 80 2649 3217
www.potentialconsultants.com

POTENTIAL
EXPERIENCE EXCELLENCE

Based on the supervision done by Project Management team M/s. Synergy Property Development Services Pvt. Ltd. vide confirmed by their letter dated 6th January 2009 and our supervision done occasionally, we are in a position to state and confirm that the structural work has been carried out in accordance with the drawings and specifications. The building is safe for beneficial occupation and for the purpose it is intended

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder-Principal Consultant
BCC/BL/3.2.3/E-310/87-88

RSP DESIGN CONSULTANTS (INDIA) PVT LTD
(Formerly Known as RSP ARCHITECTS PLANNERS & ENGINEERS (INDIA) PVT LTD)
RSP HOUSE 30 MUSEUM ROAD BANGALORE 560001 INDIA TEL: (91) 80 2559 6868 4196 6868 FAX: (91) 80 2559 6818 EMAIL: rsp@rspindia.net Website: www.rspindia.net

Chairman
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Managing Director
Gopi Bhawnani B A (Hons) Eco MBA FMS

Directors
Lee Kut Cheung B Arch (Hong Kong) AA (London) Grad Dip (Hons) MSIA RIBA
Arunjot Singh Bhalla B Arch (Hons) S M Arch S (MIT, USA)
Kiran Uchil G D Arch
Anshu Mahajan B Arch
Rana Ram B Arch
Mukesh Bhogal B Arch
Gopal Rao B E (Electrical)

Associate Directors
Ashish Hazra
Rajiv Ghildiyal
Dalip Singh
D Vishwanathan
Carlito Lo Sosito
Ramesh Joshi

Our Ref: Your Ref: Date:

CERTIFICATE

I hereby certify that the erection of Block F2 of proposed development for information technology park on survey no
98(P), 99/2(P), 99/3(P), 106(P), 110/2(P), 110/3(P), 111/1, 111/2, 111/3, 111/4, 111/5, 111/6(P), 112/1, 112/2, 112/3(P), 113/1,113/2(P), 115/1(P) Rachenahalli village,
K.R puram hobli, Bangalore East. has been completed according to sanctioned plan.
Sanctioned vide.KIADB/ DOII/14549/SUC/ PL-SANC/2007-2008 Dated 22/09/2007

The work has been completed to my satisfaction. The workmanship and all the materials have been used in accordance with the general specifications.

No provisions of Building Bye-Laws, no requisition made, conditions prescribed or ordered there under have been transgressed in the course of the work.

The building is fit for use for which it has been erected.

I request that the **Occupancy Certificate** for the said part of the premises may be issued.

Signature of Architect :

Name of the Architect : Anshu Mahajan

Dated: 02/01/2009

T.S. Gururaj
Founder - Principal Consultant

B.R.V. Murthy
Founder - Principal Consultant

B.S.A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE
ESTD 1987

June 25th , 2008

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - ANZ (Block-H1)

This is to certify that the building, **"MANYATA EMBASSY BUSINESS PARK - ANZ (Block-H1)** having Tower A Basement + Ground + 5 Upper floors, Terrace and Tower B Basement + Ground + 6 Upper floors, Terrace with total built-up area of 484132 Sft. located at Sy.No.113/1P,114/1P,114/2P,114/3P,114/4P,121/2P,123/1AP,124/1,124/2A, 124/2B,124/3A & 124/3B , in Nagawara Village, Kasaba Hobli, Bangalore North, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DOII/SUC/14549/PL.SANC/07-08 dated 21.09.2007 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete framed structure with column, beam and flat slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Branch
10 Palayakaran Street Plot # 6 (Behind Jaya TV)
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302 Zeenath Residency Srinagar Colony
(Beside Food World) Hyderabad - 73
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Tel : 91 80 2649 3122
Fax : 91 80 2649 3217
www.potentialconsultants.com

POTENTIAL
EXPERIENCE EXCELLENCE

Based on the supervision done by Project Management Synergy Property Development Services Pvt.Ltd. and their certificate issued on 25th June 2008 and our supervision done occasionally, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder-Principal Consultant
BCC/BL/3.2.3/E-310/87-88

BANGALORE OFFICE :
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135, BRIGADE ROAD, BANGALORE-560 025
PHONE : 2224 4810 / 811, 4111 7195 / 94
FAX : 2221 0753
E-MAIL : secspl@vsnl.com
www.sterlingengg.com

STERLING

ENGINEERING CONSULTANCY SERVICES PRIVATE LIMITED

HEAD OFFICE :
QUEENS MANSION
PRESCOT ROAD, MUMBAI-400 001
PHONE : 2207 3578, 2207 0582
FAX : 2207 3584
E-MAIL : secspl@bom3.vsnl.net.in

Date : 19-11-2013

STABILITY CERTIFICATE

'MANYATA H2' Office block cum MLCP Building on Survey No.114/4P,121/1P,123/1AP,124/1P,124/2AP,124/2BP,121/3AP,121/3BP Nagavara Village, Kasaba Hobli, Bangalore North Bangalore, vide LP No: IADB/DO II/SUC/18971/PL.SANC/2011-12 Dated 06.01.2012

This is to certify that, the above building consisting of 2 Basements + Ground + 10 Upper floors has been designed by us.

The structural drawings for the above have been prepared by us on the basis of Architectural plans submitted to KIADB by M/s RSP Design Consultants (India) Pvt Ltd Vide (BCC Reg. NO. BCC/BL/3-2-3/A-804/97-98) & the same comply with the Indian Standards. The building has been designed for Dead loads & Live loads as per relevant IS, wind loads as per IS 875 part 3 and Earthquake loads as per IS 1893 – 2002.

Based on our periodic supervision and the reports submitted by site supervisors, we are in a position to state that the structural work has been carried out to our satisfaction. The building is safe and stable for the purpose for which it was intended.

For STERLING ENGINEERING CONSULTANCY SERVICES PRIVATE LIMITED

N. N. Nagendra

(N.N.NAGENDRA KUMAR)
Resident Director
BCC/BL-3.2.3E-248/86-87

mahimtura consultants pvt. ltd.

• consulting engineers
• project management consultants

Dir. : S. R. MAHIMTURA B.S. (U.S.A) F.I.E.,D.B.M
Dir. : H. R. MAHIMTURA B.E., M.S.(U.S.A.), F.I.E.
Tel. : 91-22-4368 5000 / 2266 1212
Fax : 91-22-2266 2227

Date : 15th January, 2021

To,

Manyata Promotors Pvt. Ltd.
Manyata Embassy Campus,
Opp. to BEL Corporate Office, Nagavara,
Hebbal Ring Road, Bengaluru,
Karnataka - 560 045

Sub. : Structural stability certificate for your building "K Block" at "Manyata Embassy Campus, Opp. to BEL Corporate Office, Nagavara, Hebbal Ring Road, Bengaluru, Karnataka - 560 045.

Dear Sir,

This is to certify that we had carried out structural audit & all NDT tests of your above building for which we have already submitted the report in year 2020/21.

We would like to mention that we does not find any major structural abnormity while visual survey & NDT tests except certain leakages issued from exterior wall / terrace / toilet and some minor cracks in walls / trimix flooring which need to be attended in near future to keep the structural integrity & durability of the building for long run.

Other wise the building as whole is structurally sound and safe for the purpose which has been intended for to the best of my knowledge & belief as on date.

Thanking you,

Yours sincerely,
For **Mahimtura Consultants Pvt. Ltd.**

MAHIMTURA CONSULTANTS (P) LTD. MUMBAI

H.R. MAHIMTURA
(Director)

e-mail: repair@mahimtura.net
Website: www.mahimtura.com

Administrative Office : 25, Unique House, 3rd Floor, S. A. Brelvi Road, Fort, Mumbai - 400 001.
Branch Office : 10, Ground Floor, Poes Main Road, Teynampet, Chennai - 600 018, Ph: (044) 2432 9989 E-mail: brchennaimcpl@gmail.com
Branch Office : 701, Mittal Tower, 'B' Wing, New No. 21, Old No. 6, M.G. Road, Bangalore - 500 001.
Branch Office : G-1, Parmar Trade Centre, Connaught Road, Pune - 411 001. Ph: (020) 6601 2240/41 Fax: (020) 30525438 E-mail: pune@mahimtura.net
Branch Office : Plot No. 18, S.Y. No. 48/1, PDA Colony, Near River View Colony, Rels Magos Village, Alto, Porvorim, Goa - 403 521.
Ph: (0832) 6511436. E-mail: mcplgoa@yahoo.co.in

STATUS REPORT ON STRUCTURAL ADEQUACY OF

"K BLOCK, MANYATA EMBASSY BUSINESS PARK", BENGALURU.

MAHIMTURA CONSULTANTS PVT. LTD.
CONSULTING ENGINEERS

Unique House, S.A.Brelvi Road, Fort, Mumbai-400 001,
Tel. (Off) 43685000 / 22661212 Fax No. 022 – 2266 22 27
E-mail: repair@mahimtura.net **website**: www.mahimtura.com

K BLOCK, MANYATA EMBASSY BUSINESS PARK, BENGALURU.

REPORT ON SURVEY OBSERVATIONS AND INVESTIGATIONS FOR THE STATUS APPRAISAL & STRUCTURAL ADEQUACY / DURABILITY OF

"**K BLOCK BUILDING"**

FORWARDED TO

MANYATA PROMOTERS PVT.LTD,
MANYATA EMBASSY CAMPUS, OPP TO BEL CORPORATION OFFICE,
NAGAVARA, HEBBAL RING ROAD,
BENGALURU, KARNATAKA – 560 045.

ON

4th March 2021.
BY

M/S. MAHIMTURA CONSULTANTS PVT. LTD.
CONSULTING STRUCTURAL ENGINEERS
Unique House, 3rd Floor, 25, S.A. Brelvi Road, Fort, Mumbai - 400 001.
Tel.(Off) 43685000 / 2266 1212 Fax No. 022 – 2 266 2227

e-mail: repair@mahimtura.net **website**: www.mahimtura.com

FOR **MAHIMTURA CONSULTANTS PVT.LTD.**

S.R. MAHIMTURA
(Chairman)

ENCLOSED:

1. OBJECTIVE
2. INTRODUCTION
3. OBSERVATIONS
4. PHOTOGRAPHS SHOWING CONDITIONS OF THE STRUCTURE
5. DISTRESS MAPPING PLAN
6. NDT TEST REPORT & NDT INTERFERENCE
7. RECOMMENDATION
8. CONCLUSION

I N D E X

OBJECTIVE

K BLOCK, MANYATA EMBASSY BUSINESS PARK, BENGALURU.

OBJECTIVES

Managing Committee of the "MANYATA EMBASSY" had decided to appoint a bonafide authority for the investigation through a reputed structural consultant to carry out detail survey of their building premises "K Block" to know the status of their structure vis-à-vis structural & non-structural criteria and to prepare & submit a report for the repairs and rehabilitation of the building structure.

In view of the above Managing Committee requested and appointed us to carry out the survey of their building "K Block Building" located at Manyata Embassy campus, Opp. To BEL corporation Office, Nagavara, Hebbal Ring road, Bengaluru, Karnataka, externally and internally covering all the possible aspects of repairs and prepare report along with our opinion, recommendations for the Managing Committee perusal and approval.

Subsequently, we mobilized our team of engineers at site for the detailed survey inspection and observation of "K Block" in the presence of building representatives.

We hereby forward detail survey, external & internal visual observations and NDT test reports of the building structure considering present status & appropriate remedy.

The report of the same including photographs showing the damaged areas in the building externally and internally is hereby presented for the Managing Committee approval.

INTRODUCTION

K BLOCK, MANYATA EMBASSY BUSINESS PARK, BENGALURU.

INTRODUCTION

The existing structure surveyed is Office Building of 1 Basement + Ground floor + 4th upper floors. The building is a R.C.C framed structure which was constructed approx 10 years ago.

Building consists of four staircases and three lifts for passenger vertical movement. Basement consist of L.T. Room, D.G. Room, Store Room, Common toilet for gents & ladies & car parking, ground floor comprises of cafeteria and office blocks while upper floors is utilized for commercial office units.

The managing committee appointed us to carry out the survey to assess the structural / leakages and resultant damage to the building and present the necessary remedial measures to maintain the structural stability.

OBSERVATIONS

K BLOCK, MANYATA EMBASSY BUSINESS PARK, BENGALURU.

OBSERVATIONS

The visual survey is carried out to all possible and accessible areas of the building premises. The visual observations mainly cover damaged areas of the plaster internal & external surface, structural or non-structural cracks to RCC members, Expansion joint, nature & reason of leakage at different levels and locations.

Detail external and internal areas have been carried out to assess the damage to structural & non-structural members. We have checked & noted the present status/ observations of the building structure are as follows:

1. EXTERNAL WALLS:

External Wall consists of dry-stone cladding, Glass Cladding & Balance External walls area are finished with sand faced plaster, texture & acrylic paint. However due to wear & tear and due to weathering effect, there are minor distress observed on external surface during visual survey.

The external surface was observed with separation joint cracks which have developed at the junctions of dissimilar materials. Side walls were observed with minor plaster cracks at few locations. Front side wall Dry stone cladding observed broken at beam bottom level at 1st & 2nd floor level.

Wall wise observations are as below:

West side walls: This wall forms front side wall of the building. Wall Consist main entry to the Building. Wall covered with Glass cladding on window, Stone cladding at floor beam levels & Texture with Acrylic paint on vertical pillars.

Broken/ dislocated stones of cladding at the beam bottoms are observed which has caused due to debonding. Glass cladding observed satisfactory conditions expect but at few locations sealant is debonded and has come out.

South wall: Wall covered with Glass cladding on window, Stone cladding at floor beam levels & Texture with Acrylic paint on vertical pillars. Over all the condition looks to be good expect of the debonded sealant.

North walls: Wall Consist full height Glass cladding, Stone cladding at floor beam levels & Texture with Acrylic paint on vertical pillars. Over all the condition looks to be good expect of the debonded sealant.

East Side wall: East is a rare side of the Building consisting of entry & exist of ramp to basement. This wall is sand faced plastered, texture and painted with acrylic paint & Groove cut every Floor level. 1st floor level near ramp opening A.C. fixed on M.S. brackets.

Wall observed major to minor cracks vertical & horizontal at various levels. Few cracks filled with crack filling chemicals. No weather sheds or chajjas above window opening thus causing ingress of rainwater. Staircase wall observed vertical cracks at 1st & 2nd floor level & wall at left side observed major cracks at every floor levels. At east south corner wall plaster cracks observed on beam at 1st & terrace levels.

2. STRUCTURE / R.C.C MEMBERS:

RCC member's viz. Columns, Column capitals, beams, flat slabs were visually observed at all the floor levels from Basements to terrace. Also, light weight hammers were used to check the hollowness of these members, the tapping observed did not reveal the hollowness thus indicating sound concrete. Expect with delam, exposing of reinforcements and honey combing at few locations.

Basement ceiling observed reinforcement exposed & honey comb concrete at few locations.

The overall RCC structure observed in satisfactory condition. There is no sign of any structural damage or distress to the building structure.

To ascertain the exact conditions of these RCC elements NDT test is carried out and the reports are attached in the separated head.

3. TERRACE:

Terrace slab is provided with traditional type brickbat coba waterproofing with I.P.S. finish. Recently waterproofing is repaired in the patches which are observed with reappearing of cracks. Terrace consists overhead water tanks, lift machine room, Stair case head rooms and Chillers plants. Terrace vatta are less than 6'' & cracks are observed at various locations. Expansion joints top Covered with bund wall which is observed with cracks. Cable trays laid over terrace surface which causes stagnating of rainwater at few locations. Chillers pipes are rested on the raised brick pedestals. Brackets for services & electrical conduit pipes fixed concealed in the water proofing top. Discolorations, moss growth & blackish spots observed at terrace surface due to ingress of rain water at majority of terrace area. IPS top observed cracked at various locations. **Chillers platform**:

Chiller plants are fixed over the elevated MS platform comprising of MS sections and at top with MS Chequered plates. The MS columns for the platform are raised above the existing RCC column pedestal are observed with cracks and reinforcement exposed. Chequered plate and the MS supports are observed with corrosions.

4. Other level open terrace:

i. 4th floor level Terrace: This terrace is provided with traditional type of brick bat coba waterproofing with IPS finish. The IPS top is observed major discolorations due to water logging and improper slope. Cracks in the IPS cracks are observed along the places. Vegetation growth observed at few locations.

ii. 3rd Floor level Terrace: This terrace is provided with traditional type of brick bat coba waterproofing with IPS finish. The IPS top is observed with major discolorations due to water logging and improper slope. Cracks in the IPS cracks are observed along the places. Vegetation growth observed at few locations. Corner vatta observed less than 6'' and observed with shrinkage cracks.

5. PARAPET WALL &LMR, HEAD ROOM WALLS:

Parapet walls, LMR & Headroom is provided with sand-faced plaster and is observed with discoloration marks. Shrinkage cracks are observed in the plaster of parapet. LMR & Head Room walls are observed separation cracks of dis-similar materials and shrinkage cracks in plaster.

6. O.H. TANK:

Overhead top slab is provided with traditional type brickbat coba waterproofing with I.P.S. finish. IPS top is observed cracks & discolorations marks, blackest spot observed due to ingress of rain water. M.S. railing fixed on bud wall is observed with minor corrosions.

7. LIFT ROOMS:

Lift Machine room top slab is provided with traditional type brickbat coba waterproofing with I.P.S. finish. IPS top is observed cracks and observed with discolorations marks & with blackest spot due to ingress of rain water. Bund wall observed cracks & discolorations on top & wall surface. Seepage marks are observed over the LMR wall

8. STAIRCASE AND COMMAN PASSAGE:

Ccommon passages are observed in satisfactory fair conditions expect a few locations with paint peelings. Staircase as observed is recently painted so no major distress observed expect few seepage and separation cracks observed at Staircase 1 & 4.

9. PLUMBING:

Closed ducts are provided to the building for drainage and water supply lines. Drainage are comprising of PVC & water pipes in GI pipes. Few PVC pipes are replaced at various floor levels. These pipes are fixed over the MS brackets at all floor level beams and are observed with corrosions. Also, the chequered plates used for floor separators are observed with corrosions.

10. INTERNAL OBSERVATIONS:

All the available internal floor areas were inspected and details are reported in the separated head attached herewith. The floors are utilized for commercial offices with required services such as AHU, electrical, Hubs, stores and common toilet blocks.
Ceilings of these floors are covered with mineral board false ceilings and columns cladded with gypsum/ plywood etc. Random false ceiling pocket tiles were opened in these areas and observations noted.

Few distresses inform of seepages, separations were noted and are mentioned in internal observation sub head and notified in the distress mapping.

11. BASEMENT:

Basement area is widely used for car parking. At few locations ceiling slab and retaining walls are observed with dry seepage marks indicating monsoon leakages. Exposed reinforcement and honey combing at few locations were also seen. Floor is finished with IPS and observed with cracks at few locations. Honey comb with exposed reinforcement in the retaining was observed. PVC drainage pipe line were observed with leakages at some locations. Leakages in the common toilet were observed.

INTERNAL OBSERVATION

Room NO	LOCATION	OBSERVATIONS
BASEMENT FLOOR		
1	Parking area on north side end	• Minor crack in IPS floor near north west corner. • Common toilet outer wall observed with seepage marks.
2	Sewage treatment plant	• Wall observed with dry seepage marks. • Exposed steel reinforcement observed in ceiling.
3	Common rest room	• Leakage from nahni trap in gents toilet. • Wall observed with paint peeling and plaster flaking due to capillary action near entrance door.
4	Middle Parking area	• Minor corrosion crack in outer beam near ramp. • Structural steel framing support to beam & slab near entrance of ramp. • Leakage from expansion joint near wall. • Dry seepage marks on ceiling. • Minor shrinkage crack in beam. • Separation crack between beam & wall near entrance of ramp. • Crack in IPS floor near lift lobby. • Rising dampness due to Capillary action on outer wall of UPS room. • Structural steel framing support to beam & slab in front of UPS room. • Separation crack observed between wall & beam in LT Room.
5	LT Room	• Separation crack observed between wall & beam. • Leakage from nahni trap along drain pipe during monsoon, as reported by staff. • Rising dampness due Capillary action on wall.

Room NO	LOCATION	OBSERVATIONS
		GROUND FLOOR
6	AHU 2 & 3	• No major distress observed.
7	Work station area on south side	• No major distress observed.
8	Electrical room near toilets 2	• Seepage marks on wall • Separation crack observed between wall, column & beam.
		FIRST FLOOR
9	Work station area	• No major distress observed.
10	AHU 4	• Dry seepage marks & minor crack on beam
11	AHU 3	• Dry seepage marks on ceiling.
12	Plumbing shaft 2	• All M S bracket of plumbing pipes are corroded. • Chequered plate of M S platform are corroded.
13	Gents toilet 2	• No major distress observed.
14	Ladies toilet 2	• No major distress observed.
15	AHU 2	• Dry seepage marks on ceiling.
16	Electrical room near AHU 2	• Diagonal crack observed in wall. • Separation crack observed between wall & lintel.
17	Work station area near expansion joint	• Dry seepage marks on expansion joints.
18	Plumbing shaft 1	• All M S bracket of plumbing pipes are corroded. • Dry seepage marks on wall.

Room NO	LOCATION	OBSERVATIONS
19	Janitor room	• The ceiling is repaired in patches on need base.
20	Gents toilet 1	• No major distress observed.
21	Ladies toilet 1	• No major distress observed.
22	AHU 1	• No major distress observed.
		SECOND FLOOR
23	Work station area	• No major distress observed
24	AHU 4	• No major distress observed.
25	AHU 3	• No major distress observed.
26	Plumbing shaft 2	• Chequered plate corroded of M S platform.
27	Gents toilet 2	• No major distress observed.
28	Ladies toilet 2	• No major distress observed.
29	AHU 2	• The slab is repaired in patches on need base.
30	Server room	• No major distress observed.
31	Work station near toilets 2	• Dry seepage marks on ceiling.
32	Plumbing shaft 1	• No major distress observed.
33	Gents toilet 1	• No major distress observed.
34	Ladies toilet 1	• No major distress observed.
35	AHU 1	• No major distress observed.
36	Passage near toilets.	• Vertical crack observed in tiles cladded to wall.

Room NO	LOCATION	OBSERVATIONS
		THIRD FLOOR
37	Work station area below the open terrace of the 4th floor.	• All ceiling covered with insulation sheet. • Dry seepage marks on corner wall near open balcony. • Minor crack in IPS of chajja cornice on west side.
38	East side open balcony	• Crack in all periphery vatta . • Discoloration marks on IPS floor.
39	AHU 4	• Beam observed with dry seepage marks. • Dry seepage marks on wall below the duct shaft opening.
40	AHU 3	• Beam observed with dry seepage marks.
41	Plumbing shaft 2	• Chequred plate corroded of M S platform • All M S bracket corroded of plumbing pipes.
42	Gents toilet 2	• No major distress observed.
43	Ladies toilet 2	• Capillary action on wall near door. • Separation crack observed between wall & beam above the basin's. • Gap observed between stone cladding & ACP sheet on east side outer wall.
44	Work station behind the toilets 1	• Dry seepage marks seems on west side wall.
45	Plumbing shaft 1	• G.I pipe ball valves corroded. • Chequrered plate corroded of M S platform. • Seepage marks seems on beam.
46	Gents toilet 1	• Rising dampness due to Capillary action on wall near door.

Room NO	LOCATION	OBSERVATIONS
47	Ladies toilet 1	• Rising dampness due to Capillary action on wall near door.
		FOURTH FLOOR
48	Open terrace	• Parapet walls observed with shrinkage cracks. • Minor corrosion on periphery M S railing. • Discoloration marks observed on IPS floor.
49	Ceiling	• All ceiling covered with insulation sheet.
50	Work station area behind the open terrace.	• Dry seepage marks on wall near staircase.
51	Pantry	• Satisfactory.
52	AHU 4	• Satisfactory.
53	AHU 3	• Satisfactory.
54	Plumbing shaft 2	• All M S Bracket of plumbing pipe are corroded.
55	Ladies toilet 2	• Satisfactory.
56	Gents toilet 2	• Satisfactory.
57	AHU 2	• Satisfactory.
58	Work station area behind AHU 2	• Dry seepage marks on west side wall. • Dry seepage marks are visible on the west side beam. During Monsoon leakage from terrace floor as reported by staff. • Rising Dampness due to Capillary action on west side cornar wall.
59	Plumbing	• Seepage marks & discoloration marks are visible

Room NO	LOCATION	OBSERVATIONS
	shaft 1	throughout the room • Separation crack observed between beam & wall.
60	Gents toilet 1	• Satisfactory.
61	Ladies toilet 1	• Satisfactory.
62	AHU 1	• Satisfactory.
63	East side balcony near electrical room	• The floor of the balcony is coated with a chemical coating but crack is visible in the corner joints.
64	Electrical room	• Satisfactory.

PHOTOGRAPHS SHOWING CONDITIONS OF THE STRUCTURE

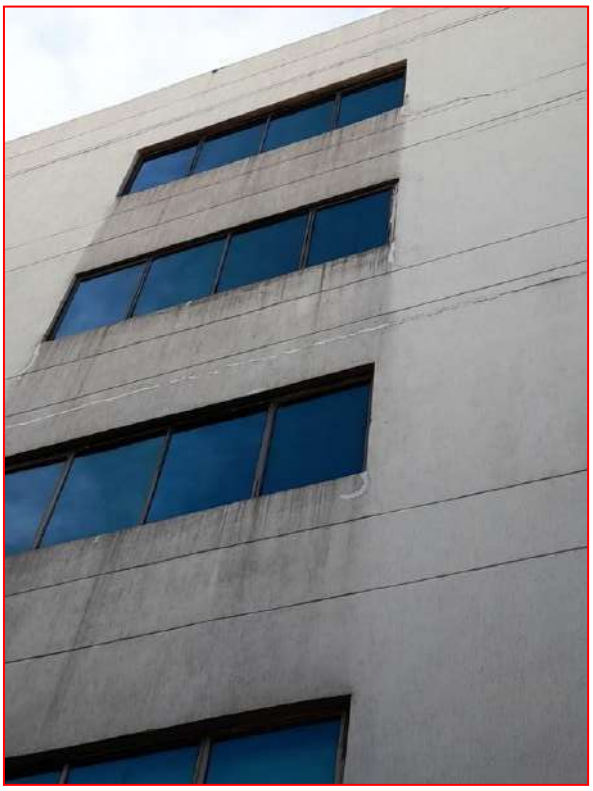
K - BLOCK, BUILDING, MANYATA PARK

External view of building exhibiting glass and stone façade.

Side view of Building consist Glass cladding & stone cladding.

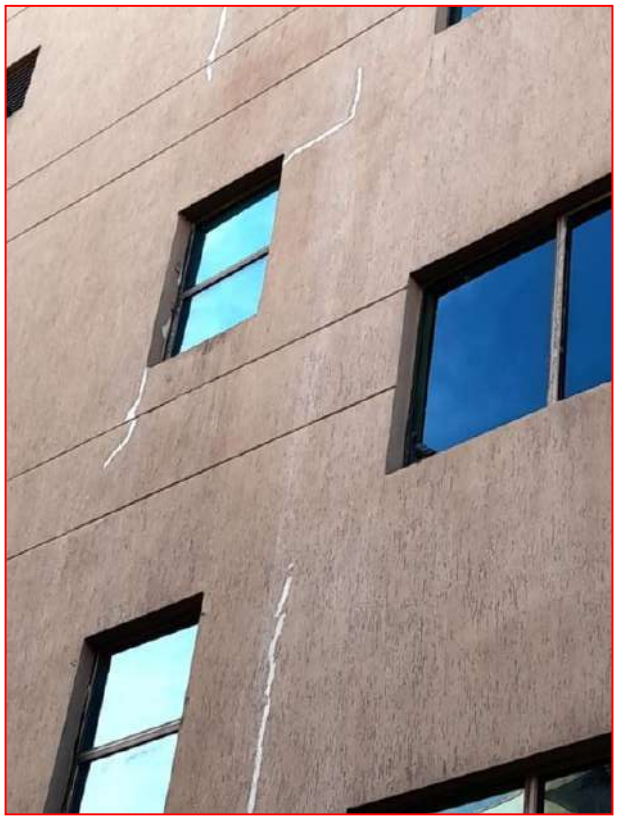
K - BLOCK, BUILDING, MANYATA PARK

Rare side view of the building, finished with texture with acrylic paint.



Discoloration marks were observed over the external wall below windows.

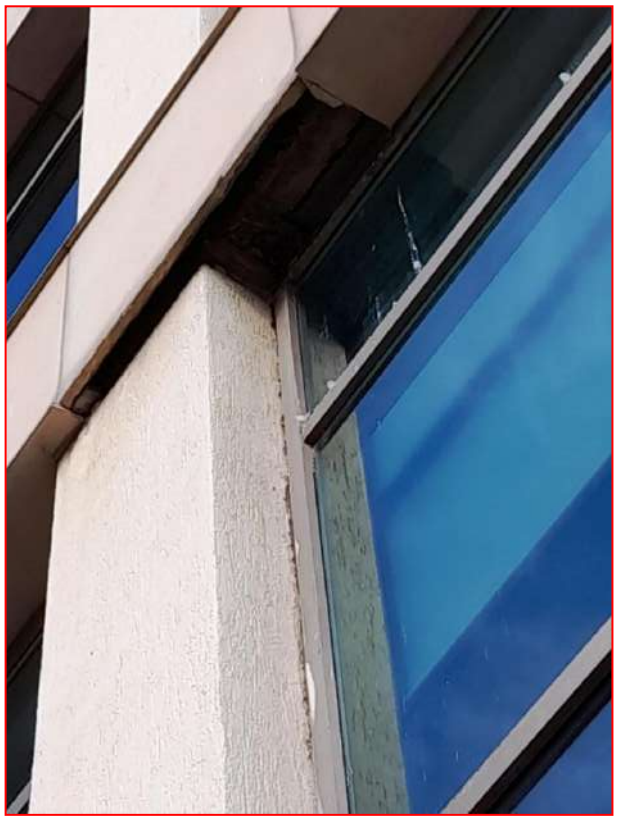
Cracks in plaster and filled sealant.



K - BLOCK, BUILDING, MANYATA PARK

Cracks in nature of separation between structural and non-structural members observed and also plaster cracks were found on external side of the wall.

K - BLOCK, BUILDING, MANYATA PARK



Stone cladding along the external walls are debonded and cracked.

K - BLOCK, BUILDING, MANYATA PARK

Dark spots are occurred over the terrace caused mainly due to stagnating and pound of rain water.

Irregular cracks are observed in the IPS on terrace surface.

K - BLOCK, BUILDING, MANYATA PARK

View of various service pipe lines run on terrace surface with the support of concrete pedestal.

Pipe is embedded in the IPS but without proper cover over it. Thus exposing the waterproofing.

K - BLOCK, BUILDING, MANYATA PARK

Deep separation cracks between structural and non-structural members observed at terrace.

View of various service pipe lines and electrical cables run on terrace surface with the support of concrete pedestal and GI cable tray. Bund wall observed with cracks.

K - BLOCK, BUILDING, MANYATA PARK

IPS over terrace is observed with damaged and discolored patches.

K - BLOCK, BUILDING, MANYATA PARK

View of structural steel chiller platform.

Close view reveals Structural steel members and MS chequred plate were found corroded of chiller platform.

K - BLOCK, BUILDING, MANYATA PARK

View of damaged and discolored IPS above overhead tank.

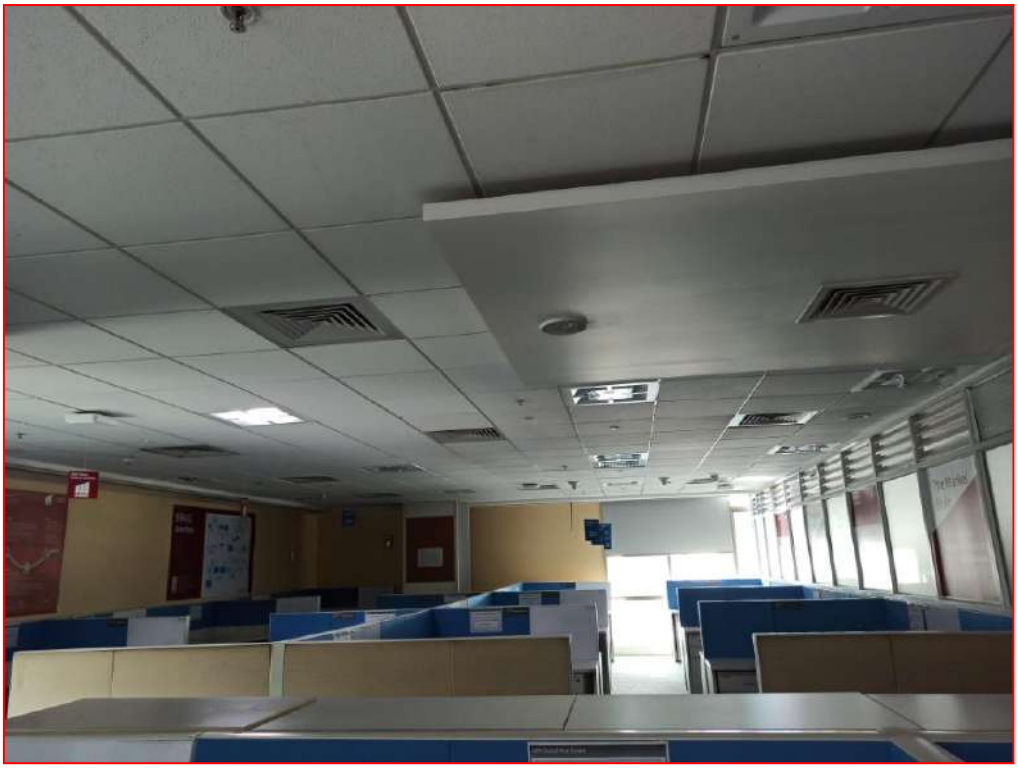
Lintel beam above lift machine room was observed with cracks.

K - BLOCK, BUILDING, MANYATA PARK

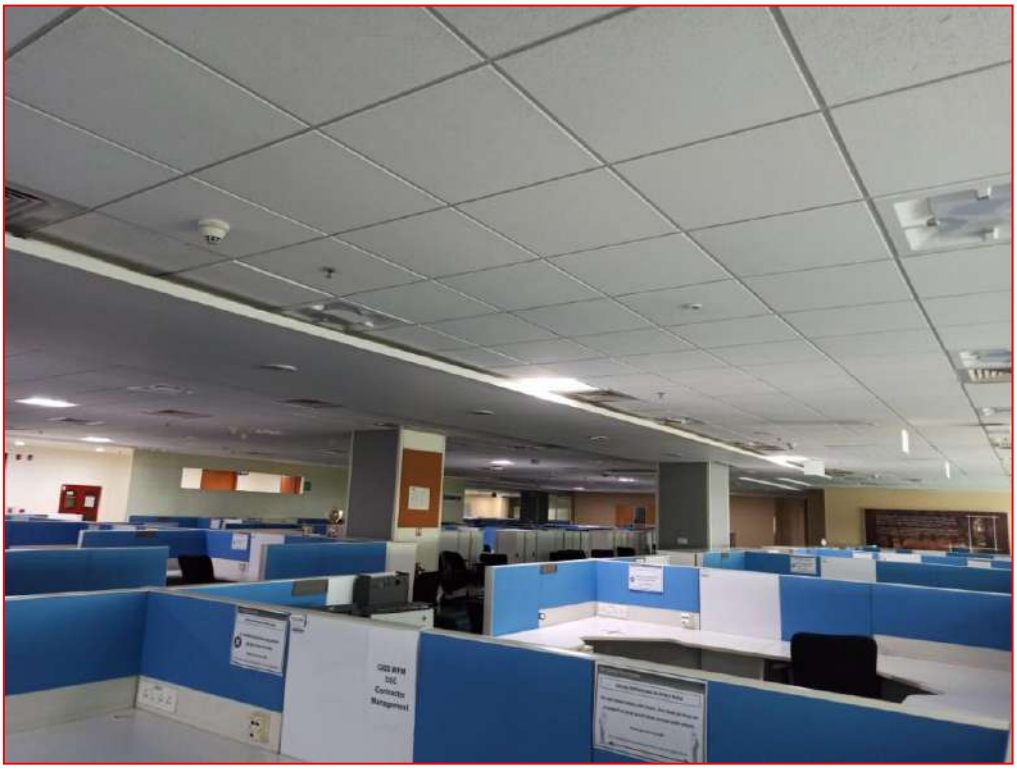
Seepage marks were found on wall of LMR.

Open terrace at 4th floor: View of discolored and damaged IPS with masonry cracks on wall.

K - BLOCK, BUILDING, MANYATA PARK



View of typical office area.



Entire ceiling slab were covered with Mineral fiber false ceiling.

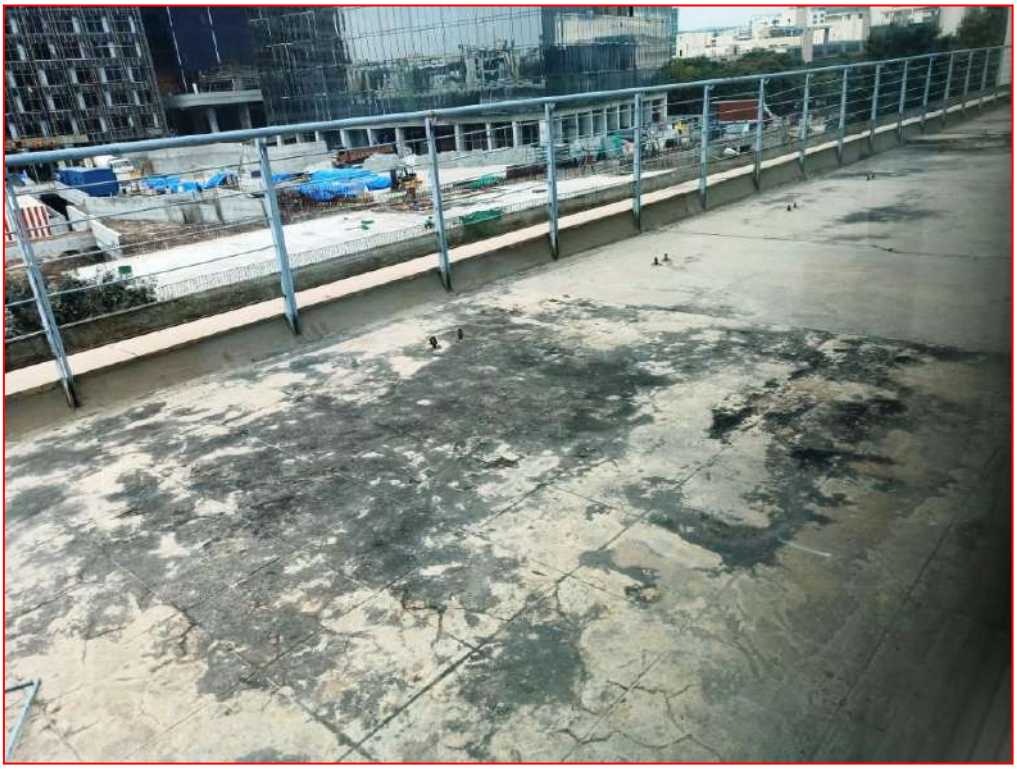
K - BLOCK, BUILDING, MANYATA PARK

View of Expansion joint was repair with Chemicals & filler materials.

View of ceiling Slab, Column & Column cap which is in satisfactory condition.

K - BLOCK, BUILDING, MANYATA PARK

2nd floor level: Separation crack were found on wall near the fire exit staircase.



Pocket terrace at 3rd floor: View of discolored and damaged IPS.

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3rd floor level: Dry seepage marks observed on walls.

4th floor level open terrace observed with major discoloration due to ingress of rain water.

K - BLOCK, BUILDING, MANYATA PARK

4th floor level: Vegetation growth were observed at terrace level.

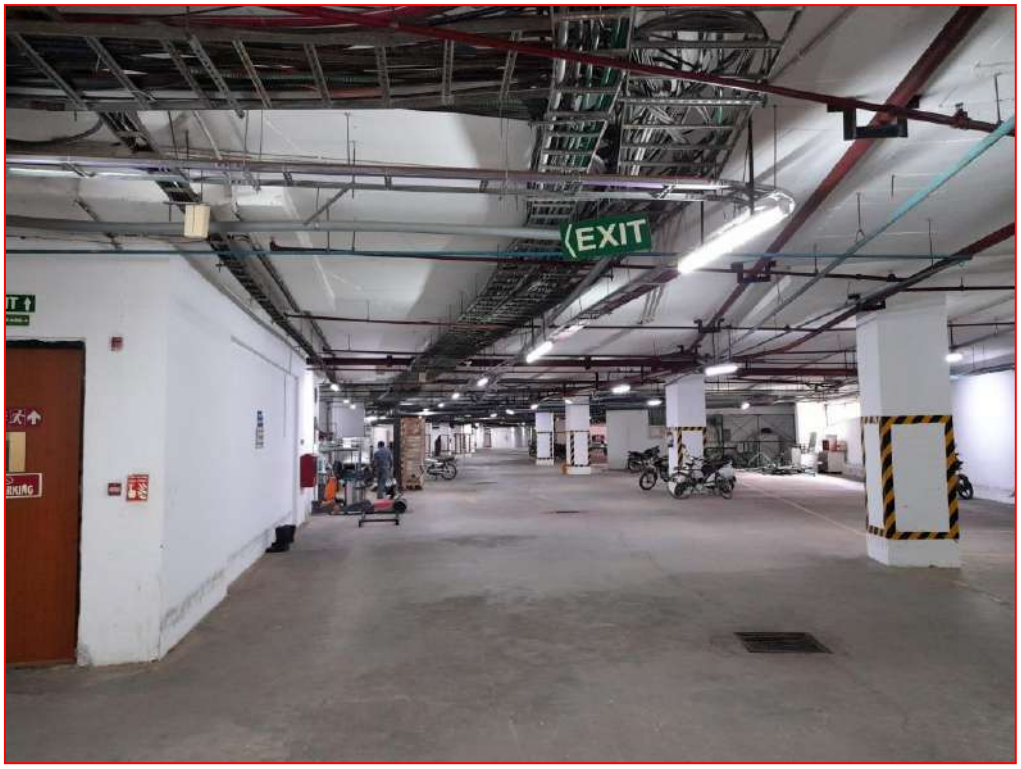
Chemical water proof coating was done on open balcony floor surface.

K - BLOCK, BUILDING, MANYATA PARK

Railing supporting member is directly fixed on IPS finish.

View of Plumbing Duct consist Drain & water supply pipe lines.

K - BLOCK, BUILDING, MANYATA PARK



View of basement

IPS finished flooring observed cracks.

Common toilet observed water seepage.

Reinforcement exposed observed on ceiling.

K - BLOCK, BUILDING, MANYATA PARK

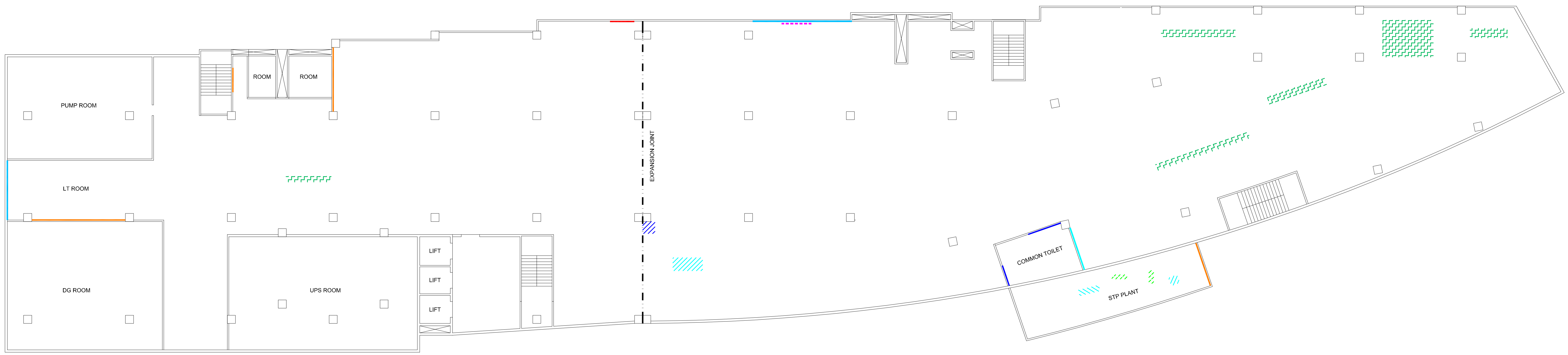
Reinforcement exposed observed on ceiling.

Plumbing duct chequred plate observed corroded.

PVC drains pipes fixed inside flooring.

Seepage marks on ceiling.

DISTRESS MAPPING PLANS



1 BASEMENT FLOOR PLAN
K BLOCK

NOTES

LEGEND-

- : LEAKAGE MARK.
- : CRACK IN BEAM.
- : SHRINKAGE CRACK.
- : CRACK IN IPS
- : DRY SEEPAGE MARK
- : EXPOSED STEEL REINFORCEMENT.
- : SEPARATION CRACK.
- : CRACK ON SLAB.
- : CAPILLARY ACTION ON WALL
- : EXPANSION JOINT

CLIENT :- MANYATA EMBASSYBUSINESS PARK,NAGAWARA,BANGALORE.

ISSUED TO	R0	R1	R2	R3	R4	R5	R6	R7	R8	R9
NO. OF PRINTS										

PROJECT :- K-BLOCK-MANYATA EMBASSYBUSINESS PARK,BANGALORE.

PARTICULARS :- DISTRESS MAPPING ON BASEMENT FLOOR PLAN

DRAWN BY	NJ
CHECKED BY	JGP
DATE	15.01.2021
SCALE	N.T.S.

DRAWING NO. C/R-MEBP-DIST/1

MAHIMTURA CONSULTANTS PVT. LTD.
UNIQUE HOUSE, 3rd FLOOR,
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e-mail: info@mahimtura.net
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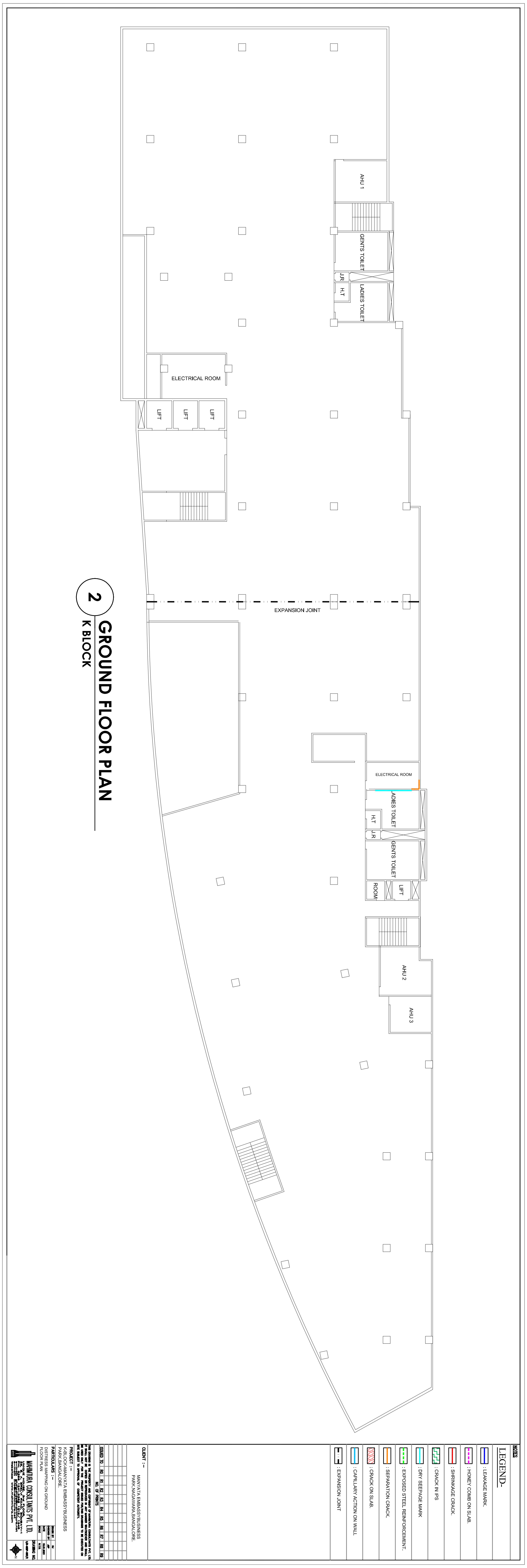
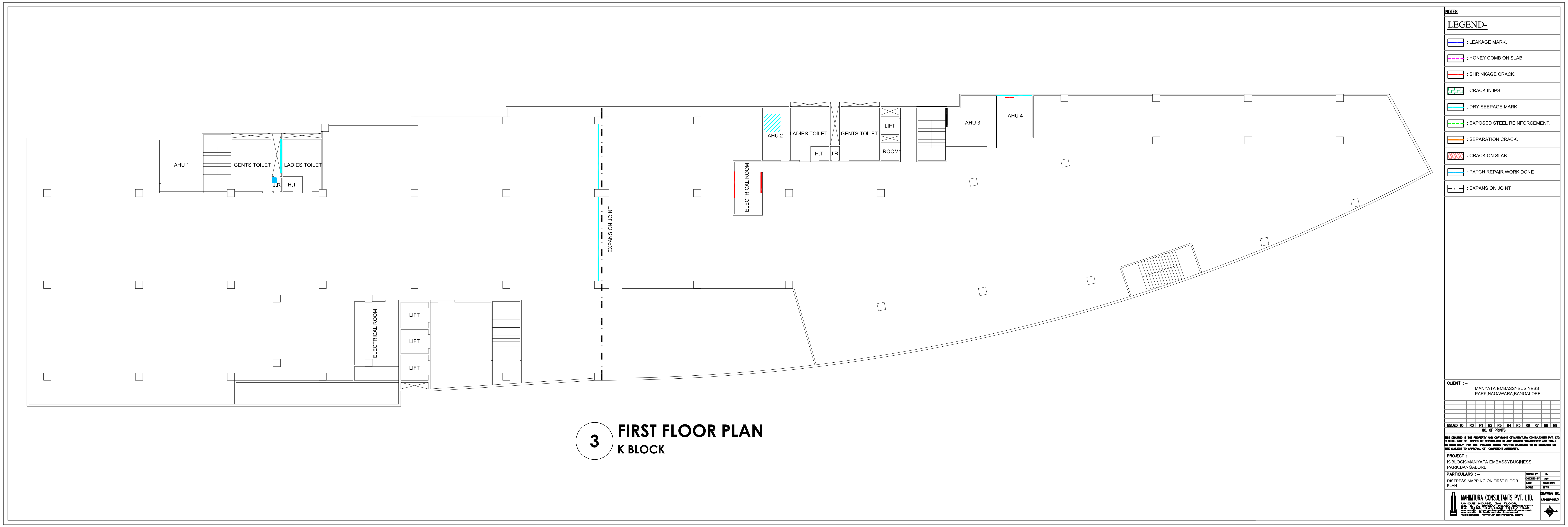
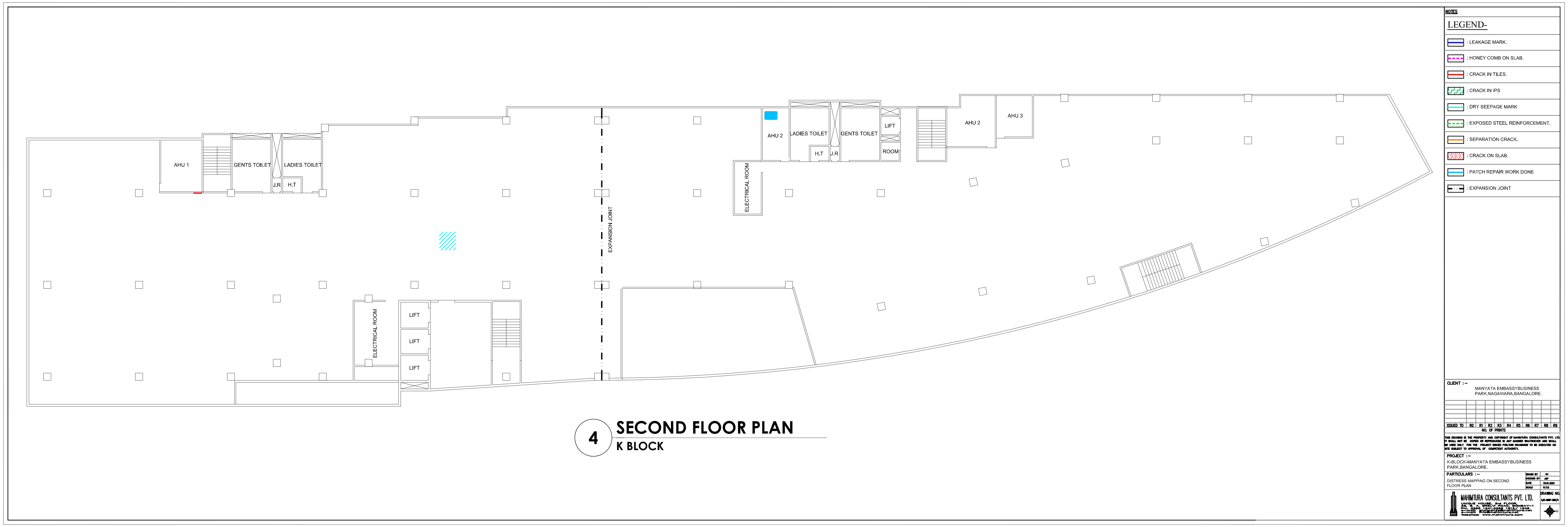
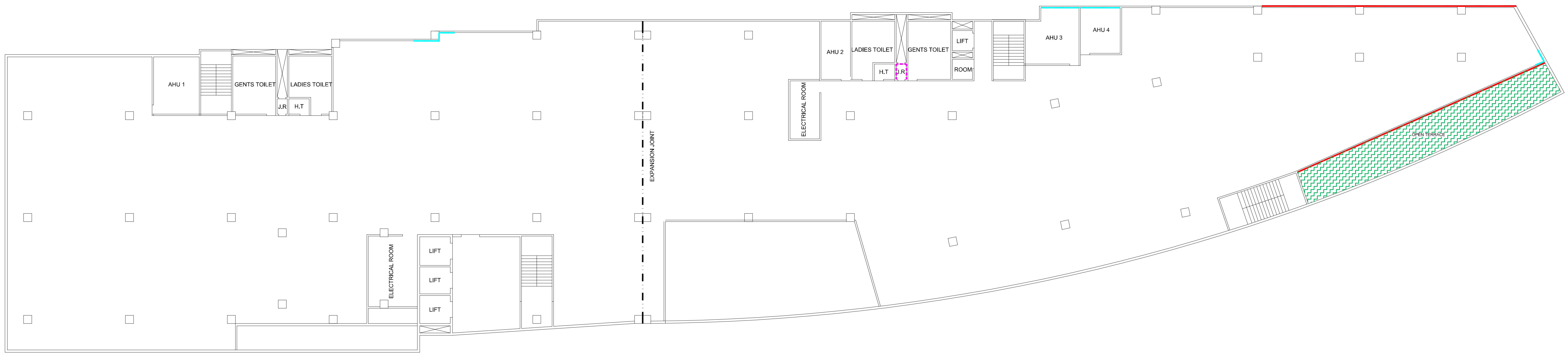

2
GROUND FLOOR PLAN
K BLOCK
EXPANSION JOINT
ELECTRICAL ROOM
LIFT
AHU 1
AHU 2
AHU 3
GENTS TOILET
LADIES TOILET
J.R
H.T
ROOM
LEGEND-
LEAKAGE MARK.
HONEY COMB ON SLAB.
SHRINKAGE CRACK.
CRACK IN IPS
DRY SEEPAGE MARK
EXPOSED STEEL REINFORCEMENT.
SEPARATION CRACK.
CRACK ON SLAB.
CAPILLARY ACTION ON WALL
EXPANSION JOINT
CLIENT :-
MANYATA EMBASSY BUSINESS PARK,NAGAWARA,BANGALORE.
PROJECT :-
K-BLOCK,MANYATA EMBASSY BUSINESS PARK,BANGALORE.
PARTICULARS :-
DISTRESS MAPPING ON GROUND FLOOR PLAN
MAHINDRA CONSULTANTS PVT. LTD.


AHU 1
GENTS TOILET
LADIES TOILET
J.R
H.T
ELECTRICAL ROOM
LIFT
LIFT
LIFT
EXPANSION JOINT
AHU 2
LADIES TOILET
GENTS TOILET
H.T
J.R
LIFT
ROOM
AHU 3
AHU 4
ELECTRICAL ROOM
3
FIRST FLOOR PLAN
K BLOCK
NOTES
LEGEND-
: LEAKAGE MARK.
: HONEY COMB ON SLAB.
: SHRINKAGE CRACK.
: CRACK IN IPS
: DRY SEEPAGE MARK
: EXPOSED STEEL REINFORCEMENT.
: SEPARATION CRACK.
: CRACK ON SLAB.
: PATCH REPAIR WORK DONE
: EXPANSION JOINT
CLIENT :-
MANYATA EMBASSYBUSINESS PARK,NAGAWARA,BANGALORE.
ISSUED TO R0 R1 R2 R3 R4 R5 R6 R7 R8 R9
NO. OF PRINTS
PROJECT :-
K-BLOCK-MANYATA EMBASSYBUSINESS PARK,BANGALORE.
PARTICULARS :-
DISTRESS MAPPING ON FIRST FLOOR PLAN
MAHIMTURA CONSULTANTS PVT. LTD.



AHU 1
GENTS TOILET
LADIES TOILET
J.R
H.T
ELECTRICAL ROOM
LIFT
LIFT
LIFT
EXPANSION JOINT
ELECTRICAL ROOM
AHU 2
LADIES TOILET
GENTS TOILET
H.T
J.R
LIFT
ROOM
AHU 2
AHU 3
4 SECOND FLOOR PLAN
K BLOCK
NOTES
LEGEND-
: LEAKAGE MARK.
: HONEY COMB ON SLAB.
: CRACK IN TILES.
: CRACK IN IPS
: DRY SEEPAGE MARK
: EXPOSED STEEL REINFORCEMENT.
: SEPARATION CRACK.
: CRACK ON SLAB.
: PATCH REPAIR WORK DONE
: EXPANSION JOINT
CLIENT :-
MANYATA EMBASSYBUSINESS PARK,NAGAWARA,BANGALORE.
ISSUED TO R0 R1 R2 R3 R4 R5 R6 R7 R8 R9
NO. OF PRINTS
PROJECT :-
K-BLOCK-MANYATA EMBASSYBUSINESS PARK,BANGALORE.
PARTICULARS :-
DISTRESS MAPPING ON SECOND FLOOR PLAN
DRAWING NO.
MAHIMTURA CONSULTANTS PVT. LTD.



5 THIRD FLOOR PLAN
K BLOCK

NOTES

LEGEND-

- : LEAKAGE MARK.
- : CAPILLARY ACTION ON WALL
- : SHRINKAGE CRACK.
- : MINOR CRACK IN IPS WITH DISCOLORATION MARKS
- : DRY SEEPAGE MARK
- : EXPOSED STEEL REINFORCEMENT.
- : SEPARATION CRACK.
- : CRACK ON SLAB.
- : EXPANSION JOINT

CLIENT :- MANYATA EMBASSYBUSINESS PARK,NAGAWARA,BANGALORE.

ISSUED TO	R0	R1	R2	R3	R4	R5	R6	R7	R8	R9
NO. OF PRINTS										

PROJECT :- K-BLOCK-MANYATA EMBASSYBUSINESS PARK,BANGALORE.

PARTICULARS :- DISTRESS MAPPING ON THIRD FLOOR PLAN

DRAWN BY	NJ
CHECKED BY	JGP
DATE	15.01.2021
SCALE	N.T.S.

DRAWING NO. C/R-MEBP-DIST/5

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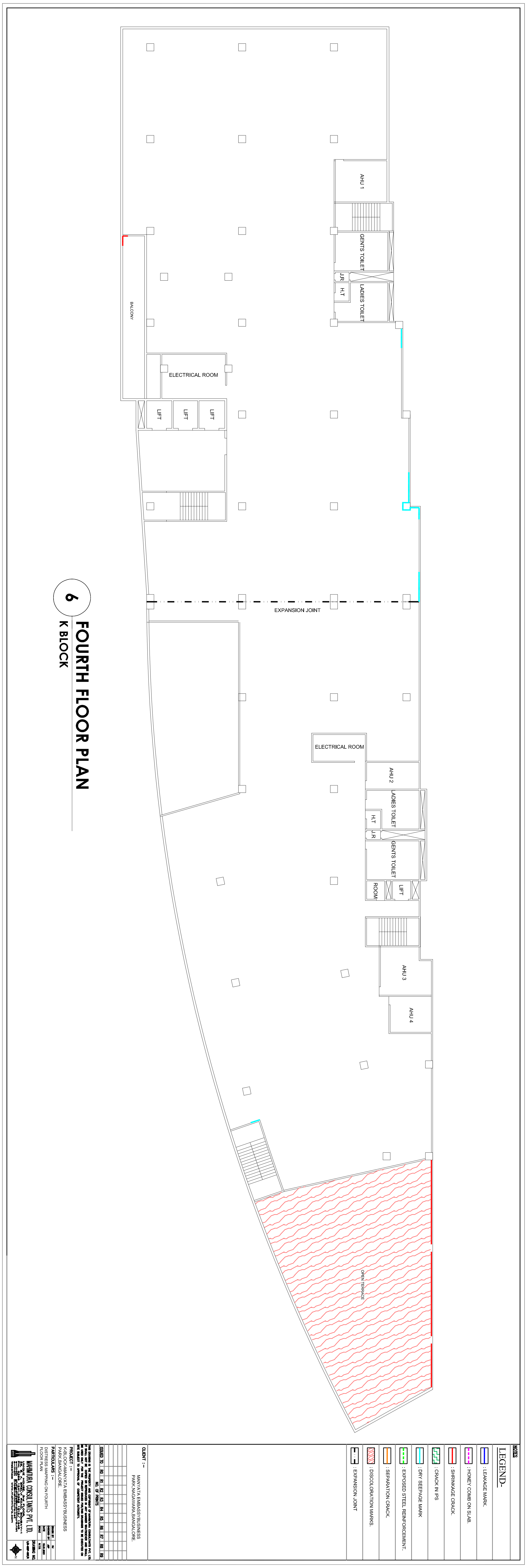
N


FOURTH FLOOR PLAN
K BLOCK
6
EXPANSION JOINT
BALCONY
ELECTRICAL ROOM
LIFT
AHU 1
AHU 2
AHU 3
AHU 4
GENTS TOILET
LADIES TOILET
J.R
H.T
ROOM
OPEN TERRACE
NOTES
LEGEND-
: LEAKAGE MARK.
: HONEY COMB ON SLAB.
: SHRINKAGE CRACK.
: CRACK IN IPS
: DRY SEEPAGE MARK
: EXPOSED STEEL REINFORCEMENT.
: SEPARATION CRACK.
: DISCOLORATION MARKS.
: EXPANSION JOINT
CLIENT :-
MANYATA EMBASSYBUSINESS PARK,NAGAWARA,BANGALORE.
ISSUED TO R0 R1 R2 R3 R4 R5 R6 R7 R8 R9
NO. OF PRINTS
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PROJECT :-
K-BLOCK-MANYATA EMBASSYBUSINESS PARK,BANGALORE.
PARTICULARS :-
DISTRESS MAPPING ON FOURTH FLOOR PLAN
DRAWN BY NJ
CHECKED BY JJP
DATE 18.01.2021
SCALE N.T.S.
DRAWING NO.
MAHIMTURA CONSULTANTS PVT. LTD.
Website: www.mahimtura.com

N.D.T. REPORT & INFERENCE

DGC ENGINEERING PVT LTD

DHIRENDRA GROUP OF COMPANY

K BLOCK, MANYATA TECH PARK.

NDT REPORT

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FOREWORD

This Report entitled "**NDT REPORT of K block, Manyata Tech Park**." deals with Non- Destructive Testing of said building at randomly selected locations, carried out by DGC Engineering Pvt. Ltd.

ACKNOWLEDGEMENTS

We thank **Mahimtura Consultants Pvt Ltd.**, Mumbai for sponsoring this project. We thank you for your continuous co-operation during the project.

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1. PREAMBLE

Date of survey **: 30th November 2020**

Site visited by **: Mr. Chandan Mirajkar (DGC) and Mr. Mohan (MCPL)**

Client **: Mahimtura Consultants Pvt Ltd.**

Mahimtura Consultants Pvt Ltd. approached DGC Engineering Private Limited, Mumbai for Visual inspection and Non -Destructive Testing of 18 multi-storey buildings located at Manyata Tech Park, Nagawara, Bengaluru.

DGC Engineering Team visited the site on 30th November 2020 for the visual inspection and Non -Destructive Testing of the K- Block was initiated from 30th November 2020 at Manyata Tech Park.

The results obtained on site and the test results of Core obtained in lab are mentioned in this report. And suitable analysis has been done as per the findings.

2. SCOPE OF WORK

As per the Technical offer given by DGC to **Mahimtura, Mumbai** the following are the Scope of Work for **DGC Engineering Pvt. Ltd**. for investigations on this Structure:

- Detailed Visual Inspection of Structural/Non-Structural Part etc. which includes checking for proper orientation of structural members, marking of damages such dampness, distress, spalling, Peeling off, Major minor cracks, corrosion etc.
- NDT at randomly selected locations of these members.

3. NON DESTRUCTIVE TESTING AND SEMI DESTRUCTIVE TESTING

3.1 General

In the direction to access the existing strength of the structure, material properties, extent of distress, any infirmities some Non-destructive and semi destructive tests have been carried out which are listed under two categories,

a. Field tests
b. Lab tests

Field Test

1. Schmidt Rebound Hammer Test
2. Ultrasonic Pulse Velocity Test
3. Cover Assessment
4. Half Cell Potential Test

Lab test

1. Core Extraction and Testing
2. P^H Test
3. Chloride Test
4. Sulphate Test

A brief description of the methodology adopted for the field investigations is given below.

1. Schmidt Rebound Hammer Test

Rebound Hammer tests are done in accordance with Indian standards IS: 13311 (Part 2):1992.

1.1 Applications:

- ✓ Assessing the likely compressive strength of concrete with the help of suitable co- relations between rebound index and compressive strength.
- ✓ Assessing the uniformity of concrete.
- ✓ Assessing the quality of concrete in relation to standard requirements.
- ✓ Assessing the quality of one element of concrete in relation to another.

This method can be used with greater confidence for differentiating between the questionable and acceptable parts of a structure or for relative comparison between two different structures.

1.2 Principle:

The method is based on the principle that the rebound of an elastic mass depends on the hardness of the surface against which mass strikes. When the plunger of rebound hammer is pressed against the surface of the concrete, the spring controlled mass rebounds and the extent of such rebound depends upon the surface hardness of concrete. The surface hardness and therefore the rebound is taken to be related to the compressive strength of the concrete. The rebound value is read off along a graduated scale and is designated as the rebound number or rebound index. The compressive strength can be read directly from the graph provided on the body of the hammer.

Depending upon the impact energy, the hammers are classified into four types i.e. N, L, M & P. Type N hammer having an impact energy of 2.2 N-m and is suitable for grades of concrete from M-15 to M-45. Type L hammer is suitable for lightweight concrete or small and impact sensitive part of the structure. Type M hammer is generally recommended for heavy structures and mass concrete. Type P is suitable for concrete below M15 grade.

1.3 Procedure:

Before commencement of a test, the rebound hammer should be tested against the test anvil, to get reliable results. The testing anvil should be of steel having Brinell hardness number of about 5000 N/mm^2. The supplier/manufacturer of the rebound hammer should indicate the range of readings on the anvil suitable for different types of rebound hammer.

For taking a measurement, the hammer should be held at right angles to the surface of the structure. The test thus can be conducted horizontally on vertical surface and vertically upwards or downwards on horizontal surfaces. Steps below indicate the procedure for conducting test.

- ✓ The concrete surface is cleaned properly.
- ✓ The hammer is pressed against the concrete surface and released.
- ✓ Six readings are taken and an average is taken.
- ✓ Correlate the average with the compressive strength.

1.4 Influencing factors:

- ✓ Type of cement

- ✓ Type of aggregates
- ✓ Surface condition and moisture content
- ✓ Carbonation of surface

Note: Estimation of strength of concrete by rebound hammer method cannot be held to be very accurate and probable accuracy of prediction of concrete strength in a structure is ± 25% as mentioned in clause 8.1, IS 13311 (Part 2) : 1992.

1.5 Test findings

REBOUND HAMMER TEST					
Sr No	**Level**	**Impact**	**Element**	**Rebound Number**	**Predicted cube compressive strength**
C-1	Basement	Side	Column	34	30
C-2	Basement	Side	Column	39	39.5
C-3	Basement	Side	Column	38	37.5
C-4	Basement	Side	Column	36	33.6
C-5	Basement	Side	Column	39	39.5
C-6	Basement	Side	Column	37	35.5
C-7	Basement	Side	Column	38	37.5
C8	Basement	Side	Column	34	30
C9	Basement	Side	Column	35	31.8
C10	Basement	Side	Column	35	31.8
S	Basement	Side	Slab	37	29.6
CP	Basement	Side	Cap	42	45.9
S	Basement	Side	Slab	39	33.6
CP	Basement	Side	Cap	40	35.5
CP-1	Ground	Side	Cap	38	31.6
C-1	Ground	Side	Column	36	33.6
S	Ground	Bottom	Slab	38	31.6
C-2	Ground	Side	Column	37	35.5
C-1	First	Side	Column	38	37.5

CP-1	First	Side	Cap	42	39.7
S-1	First	Bottom	Slab	42	39.7
CP-2	First	Side	Cap	41	37.7
C-2	First	Side	Column	37	35.5
CP-3	First	Side	Cap	40	35.5
S-2	First	Bottom	Slab	42	39.7
CP-2	Second	Side	Cap	39	33.6
S-2	Second	Bottom	Slab	41	37.7
C-1	Second	Side	Column	36	33.6
CP-1	Second	Side	Cap	38	31.6
S-1	Second	Bottom	Slab	37	29.6
CP-2	Second	Side	Cap	42	39.7
C-2	Second	Side	Column	39	39.5
S-2	Second	Bottom	Slab	41	37.7
C-1	Third	Side	Column	38	37.5
CP-1	Third	Side	Cap	41	37.7
S	Third	Bottom	Slab	37	29.6
CP-2	Third	Side	Column	39	39.5
C-1	Fourth	Side	Column	37	35.5
CP	Fourth	Side	Cap	39	33.6
S	Fourth	Bottom	Slab	38	31.6
C-2	Fourth	Side	Column	38	37.5

1.6 Summary of test results

Column: The rebound indices ranges from 34 to 39 and average rebound number of concrete is 37 and the corresponding average compressive strength is 35.5 MPa.

Slab and Beam: The rebound indices ranges from 37 to 42 and average rebound number of concrete is 39 and the corresponding average compressive strength is 33.6 MPa

2. Ultrasonic Pulse Velocity Test (UPV)

UPV test is conducted in accordance with IS: 13311 (Part 1):1992.

2.1 General:

Ultrasonic pulse velocity (UPV) testing is a wave-based measurement system which involves an instrument that is complaint to IS 13311 that measures velocity, transit time & other parameters for the evaluation of uniformity, cavities, cracks, delamination & deterioration to adequately judge the quality of concrete and other masonry materials**.** UPV test is the most widely used technique for evaluating the homogeneity of the concrete. If there are cracks, voids or any flaws in the concrete they can be detected observing pulse behaviour in the transit.

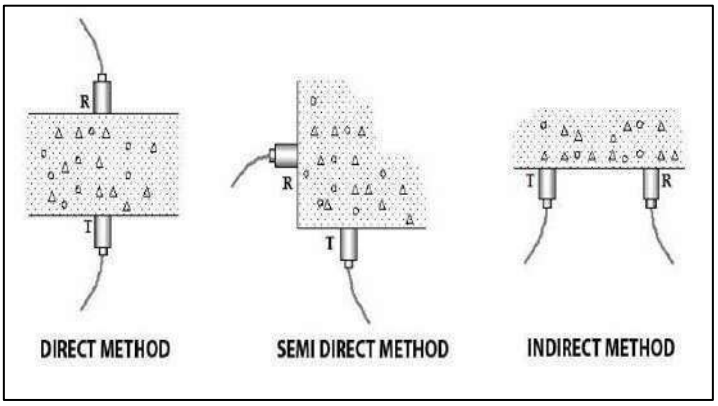
2.2 Objectives:

The ultrasonic pulse velocity method could be used to establish,

- The homogeneity of the concrete
- The presence of cracks, voids and other imperfections.
- Changes in the structure of the concrete which may occur with time.
- The quality of the concrete in relation to standard requirement.
- The quality of one element of concrete in relation to another, and
- The value of dynamic elastic modulus of the concrete.

2.3 Principle:

The ultrasonic pulse is generated by an electro acoustical transducer. When the pulse is induced into the concrete from transducer, it undergoes multiple reflections at the boundaries of different material phases within the concrete. Comparatively higher velocities are obtained when the quality of concrete in terms of density, homogeneity and uniformity is good. In case of poorer quality, lower velocities are obtained. If there is a crack, void or flaws inside the concrete which comes in the way of transmission of the pulses, the pulse strength is attenuated and it passes around the discontinuity, thereby making the path length longer. Consequently, lower velocities are obtained.



Methods of testing

2.4 Procedure:

In this test method the ultrasonic pulse is produced by the transducer which is held in contact with one surface of the concrete member under test. After traversing a known path length (L) in the concrete, the pulse of vibrations is converted into an electrical signal by the second transducer held in contact with the other surface of the concrete member and an electronic timing circuit enables the transit time (T) of the pulse to be measured. The pulse velocity (V) is given by V=L/T.

When the transducers are placed on opposite faces of the concrete member (direct transmission or cross probing) maximum energy is propagated at right angles to the face of the transmitting transducer and hence best results are obtained. However, in many situations two opposite faces of the structural member may not be accessible in such cases the receiving transducer is also placed on the same face of the concrete members (surface probing).

To ensure that the ultrasonic pulses generated at the transmitting transducer pass into the concrete and are then detected by the receiving transducer, it is essential that there be adequate acoustical coupling between the concrete and the face of each transducer using couplants like grease, liquid soap and kaolin glycerol paste. If the surface is very rough it is required to smoothen and level an area of the surface where the transducer is to be placed.

Guidelines for evaluation:

Sl. No	Pulse Velocity (km/s)	Quality of Concrete
1	More than 4.5	Excellent
2	3.5 to 4.5	Good
3	3.0 to 3.5	Medium
4	Less than 3.0	Doubtful

2.5 Test findings

UPV TEST					
Sr No	**Level**	**Impact**	**Element**	**V(Km/s)**	**Quality Of Concrete**
C-1	Basement	Direct	Column	2.72	Good

C-2	Basement	Direct	Column	1.02	Doubtful
C-3	Basement	Direct	Column	3.80	Good
C-4	Basement	Direct	Column	4.28	Good
C-5	Basement	Direct	Column	3.44	Good
C-6	Basement	Direct	Column	3.08	Good
C-7	Basement	Direct	Column	3.12	Good
C8	Basement	Direct	Column	3.33	Good
C9	Basement	Direct	Column	2.92	Poor
C10	Basement	Direct	Column	3.68	Good
S	Basement	Indirect	Slab	4.16	Good
CP	Basement	Indirect	Cap	3.96	Good
S	Basement	Indirect	Slab	3.17	Good
CP	Basement	Indirect	Cap	3.77	Good
CP-1	Ground	Indirect	Cap	5.19	Excellent
C-1	Ground	Direct	Column	4.49	Good
S	Ground	Indirect	Slab	6.55	Excellent
C-2	Ground	Direct	Column	4.87	Excellent
C-1	First	Direct	Column	5.40	Excellent
CP-1	First	Indirect	Cap	7.40	Excellent
S-1	First	Indirect	Slab	7.01	Excellent
CP-2	First	Indirect	Cap	6.45	Excellent
C-2	First	Direct	Column	4.54	Excellent
CP-3	First	Indirect	Cap	6.15	Excellent
S-2	First	Indirect	Slab	5.71	Excellent
CP-2	Second	Indirect	Cap	7.01	Excellent
S-2	Second	Indirect	Slab	6.45	Excellent
C-1	Second	Direct	Column	5.40	Excellent
CP-1	Second	Indirect	Cap	7.40	Excellent
S-1	Second	Indirect	Slab	7.01	Excellent
CP-2	Second	Indirect	Cap	6.45	Excellent
C-2	Second	Direct	Column	4.54	Excellent
S-2	Second	Indirect	Slab	5.71	Excellent

C-1	Third	Direct	Column	5.19	Excellent
CP-1	Third	Indirect	Cap	6.66	Excellent
S	Third	Indirect	Slab	7.01	Excellent
CP-2	Third	Direct	Column	5	Excellent
C-1	Fourth	Direct	Column	5.19	Excellent
CP	Fourth	Indirect	Cap	6.66	Excellent
S	Fourth	Indirect	Slab	7.01	Excellent
C-2	Fourth	Direct	Column	5	Excellent

2.6 Summary of test results

Sl No	Velocity (km/s)	Quality of concrete	% of readings
1	>4.5	Excellent	63.41
2	3.5 to 4.5	Good	17.07
3	3.0 to 3.5	Medium	12.2
4	<3.0	Doubtful	7.32

3. Half Cell Potentiometer Test

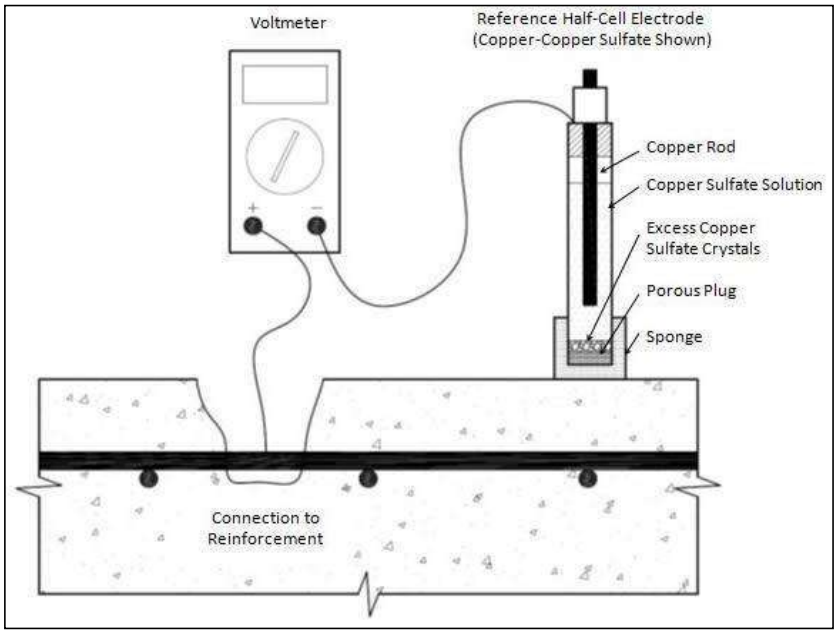
HCP test facilitates the detection and evaluation of the probability of corrosion in the structure. The test is conducted in accordance to **ASTM C876 91** which provides guidelines on the measurement process, and the relationship between the measured potential values and the corrosion probability.

3.1 Procedure:

- ✓ Identification of a test location.
- ✓ Drill a hole in the concrete to reach the reinforcement.
- ✓ Electric contact is established contact with the reinforcement and the half-cell is placed at various locations on the concrete surface to measure voltage in the voltmeter.
- ✓ The obtained voltage readings are correlated with the probability of corrosion as per ASTM standard 131.

Guidelines for evaluation:

HCP Cu/CuSO4 (mV)	Probability of corrosion [ASTM, 2015]
>-200	Less than 10%
-200 to -350	10% to 90%
<-350	Greater than 90%



Schematic representation of the test set up

3.2 Test findings:

HALF CELL POTENTIAL TEST				
Sr No	**Level**	**Element**	**V (-M-v)**	**Probability of corrosion**
C-1	Basement	Column	-220	50%
C-2	Basement	Column	-230	50%
C-3	Basement	Column	-196	10%
C-4	Basement	Column	-176	10%
C-5	Basement	Column	-160	10%
C-6	Basement	Column	-199	10%
C-7	Basement	Column	-170	10%

B-1	Basement	Beam	-211	50%
C8	Basement	Column	-239	50%
C9	Basement	Column	-249	50%
C-10	Basement	Column	-220	50%
S-1	Basement	Slab	-196	10%
CP-1	Basement	Cap	-220	50%
S-2	Basement	Slab	-209	50%
CP-2	Basement	Cap	-200	50%
CP-3	Basement	Column	-210	50%
S-3	Basement	Slab	-219	50%
CP-4	Basement	Column	-199	10%
S4	Basement	Slab	-192	10%
CP5	Basement	Column	-226	50%
S5	Basement	Slab	-209	50%
S-1	Ground	Slab	-211	50%
S-2	Ground	Slab	-209	50%
S-3	First	Slab	-172	10%
S-4	First	Slab	-199	10%
S-5	Second	Slab	-219	50%
S-6	Second	Slab	-209	50%
S-7	Third	Slab	-226	50%
S-8	Third	Slab	-209	50%
S-9	Fourth	Slab	-209	50%
S-10	Fourth	Slab	-211	50%
C-1	Terrace	Column	-211	50%
C-2	Terrace	Column	-246	50%
C-3	Terrace	Column	-273	50%
C-4	Terrace	Column	-236	50%
C-5	Terrace	Column	-211	50%
C-6	Terrace	Column	-210	50%

3.3 Summary of test results:

HCP Cu/CuSO4 (mV)	Probability of corrosion [ASTM, 2015]	% of Readings
>-200	Less than 10%	32.26
-200 to -350	50%	67.74
<-350	Greater than 90%	-

4. Cover Assessment

Electromagnetic methods are commonly used to determine the location and cover to reinforcing steel embedded in concrete. The basic principle is that the presence of steel affects the field of an electromagnet. The guidelines for their use are given in BS 1881: Part 204. The search head of cover meter may consist of a single or multiple coil system, with the physical principle involving either eddy current or magnetic induction effects. The eddy current instruments involve measurement of impedance changes and are affected by the presence of any electrically conducting metal, whilst magnetic induction instruments involve induced voltage measurements and are less sensitive to non-magnetic metallic materials. Most cover meters consist of a unit containing the power source, amplifier, meter, and a separate search unit containing the electromagnet which is coupled to the main unit by a cable.

4.1 Procedure:

In use, the reading will first be zeroed and the hand-held search unit is then moved over the surface of the concrete under test. The presence of reinforcement within the working range of the equipment is indicated by a digital value on the display. The search unit is then moved and rotated to obtain a maximum signal strength which will correspond to the location of a bar (minimum cover) and indicate its orientation.

5. Carbonation Test

The test is conducted as per the standard operating procedure reported in IS 13311, IS 516: 1959, BS EN 12504-2 and ASTM C805.

5.1 Procedure:

- ✓ Drill a hole on the concrete surface to the depth up to concrete cover.
- ✓ Spray the chemical (Phenolphthalein -$C_{20}H_{14}O_4$) and insert the steel rod.

- ✓ The colour change determines the depth of carbonation.
- ✓ Carbonation tests can also be done on extracted cores by applying the chemical on the core and measuring the depth till which the carbonation has taken place.

5.2 Test findings:

CARBONATION TEST and CONCRETE COVER				
Sr No	**Level**	**Element**	**Carbonation Depth(mm)**	**Concrete Cover (mm)**
C-1	Basement	Column	10	50
C-2	Basement	Column	10	55
C-3	Basement	Column	10	55
C-4	Basement	Column	10	50
C-5	Basement	Column	10	55
C-6	Basement	Column	10	60
C-7	Basement	Column	15	50
C8	Basement	Column	10	30
C9	Basement	Column	10	55
C10	Basement	Column	10	60
S-1	Basement	Slab	10	35
CP-1	Basement	Cap	10	45
S-2	Basement	Slab	10	40
CP-2	Basement	Cap	10	45
CP-3	Basement	Cap	10	45
S-3	Basement	Slab	10	35
CP-4	Basement	Cap	10	30
S4	Basement	Slab	10	35
CP5	Basement	Cap	10	40
S5	Basement	Slab	10	30
S-1	Ground	Slab	10	35
S-2	Ground	Slab	10	40
S-3	First	Slab	10	35
S-4	First	Slab	20	30

S-5	Second	Slab	10	40
S-6	Second	Slab	10	30
S-7	Third	Slab	10	35
S-8	Third	Slab	10	40
S-9	Fourth	Slab	10	35
S-10	Fourth	Slab	10	40
C-1	Terrace	Column	10	50
C-2	Terrace	Column	26	45
C-3	Terrace	Column	20	55
C-4	Terrace	Column	10	60
C-5	Terrace	Column	10	55
C-6	Terrace	Column	16	60

Summary of test results:

The carbonation depth ranges from 10 to 20 mm whereas concrete cover ranges from 30 to 60 mm.

6. Core Extraction and Testing

6.1 Application

Rebound hammer and Ultrasonic pulse velocity tests give indirect estimation of concrete compressive strength and quality. The direct assessment of the compressive strength of in-situ concrete can be made by Core Test. In this test, cores are usually extracted from concrete by means of a rotary cutting tool with diamond bits. In this manner, a cylindrical specimen is obtained, usually with its ends being uneven, parallel and square and sometimes with embedded pieces of reinforcement. The cores are visually examined and photographed to obtain information with respect to internal cracking, porosity, pore distribution, compaction, distribution of aggregate, presence of steel reinforcement, etc.

6.2 Procedure:

The ends of the extracted cores are trimmed to make these perpendicular to the longitudinal axis of the core. Then the ends are capped with molten sulphur or any other capping material (if required) to make its ends plane and parallel to each other. The cores are then placed in the oven for 24 hours for drying. After this drying, weight of the cores is taken and then the cores are immersed in the water for 48 hours. Weights of these cores are again taken after taking

them out from the water. From the dry weight and saturated weight of the cores, percentage voids, dry density and saturated density of the cores are obtained. The cores are then tested in compression in a surface saturated (moist) condition as per IS:456 and IS:516 to know their compressive strength.

The strength of a test specimen depends on its shape, proportions, porosity and size. The influence of height/diameter (h/d) ratio on the recorded strength of cylinder is an established fact. Strength of cores is correlated to the standard cylinder strength i.e. for h/d ratio of 2. Thus, core should preferably have this ratio near to 2. For values of h/d between 1 and 2, a correction factor has to be applied. The ratio of diameter to the nominal maximum size of aggregate shall be greater than 3. The core diameter shall generally be 100 mm to 150 mm (±10mm), with the preferred diameter being 100 mm for nominal maximum aggregate size up to 20 mm.

As the nominal maximum aggregate size was 20 mm so the diameter of extracted cores shall be at least 60mm. Hence, in the present study, cores of about 69 mm diameter and about 150 mm length were extracted from the concrete. The locations were decided at the site after taking into accounts the factors like accessibility and absence of steel reinforcement. To avoid the cutting of reinforcing bars while extracting the cores, Cover meter was used to find out the areas where reinforcing bars were not there. For extracting the cores, core cutting machine was used.

The extracted cores were then tested for compressive strength on a 200 Ton capacity Compression testing machine (CTM) in the laboratory, ensuring a rate of loading of 14 MPa/min as per IS:516-part-4, 2018. The failure load of cylindrical core was used to estimate the equivalent in-situ cube compressive strength of concrete. The following relationship was used to determine the equivalent cylindrical compressive strength of cores having different length-to- diameter (h/d) ratios:

Estimated in-situ cube strength= $F = 1.25*K*(0.11 \lambda +0.78)$ (1)

Where,

f_λ is the measured strength of a cylindrical core with length-to-diameter ratio of λ

and K=1.06 for cores of diameter less than 70mm.

Core ID	Element	Level	Load (kN)	Area(mm^2)	Correction factor (C_f)	Equivalent Cube strength (MPa)
C 1	Column	B	96	3632.15	1.237	32.70
C 2	Column	B	98	3632.15	1.254	33.84
C 3	Column	B	97	3632.15	1.259	33.61
C 7	Column	B	90	3632.15	1.237	30.65
C 8	Column	B	89	3632.15	1.244	30.47
B 1	Beam	B	86	3632.15	1.308	30.97
C 1	Column	1	101	3632.15	1.173	32.61
C 1	Column	Terrace	92	3632.15	1.254	31.77
C 1	Column	Terrace	95	3632.15	1.184	30.96

The average compressive strength evaluated to be 32.08 MPa and 30.97 MPa for columns and beams respectively.

7. Chemical test

7.1 Application:

Chemicals such as Chlorides, Sulphates and Ammonia etc. play a crucial role resulting in the corrosion of the reinforcement bars. Analysis of the structure for these chemicals can provide a key information regarding the extent of corrosion and estimation of the structural life of the member.

7.2 Procedure:

Chloride Test

The test involves crushing a sample of the concrete to a fine dust, extracting the chloride with hot dilute nitric acid and then adding silver nitrate solution to precipitate any chloride present.

Sulphate Test

Sulphate Testing involves an acid extraction and precipitation of the sulphate as barium sulphate with barium chloride solution. The resulting barium sulphate is filtered and weighed

to determine sulphate gravimetrically.

Guidelines for Identification for Corrosion Prone Locations based on Chemical analysis

Sl. No.	Chemical Test Results	Interpretations
1	High pH values greater than 11.5 and very low chloride content	No corrosion
2	High pH values and high chloride content greater than threshold values (0.15 % by weight of cement)	Corrosion prone
3	Low pH values and high chloride content (greater corrosion prone than threshold values of chloride 0.15% by weight of cement.	Increased risk of corrosion

7.3 Test findings

Core ID	Chloride content (%)	Sulphate content (%)	pH
C 1	0.088	0.520	11.2
C 2	0.093	0.903	10.6
C 3	0.090	0.973	11.5
C 7	0.078	1.130	11.6
C 8	0.086	0.947	10.7
B 1	0.090	0.750	11.0
C 1	0.087	1.090	11.0
C 1	0.098	0.593	10.7
C 1	0.088	0.755	10.8

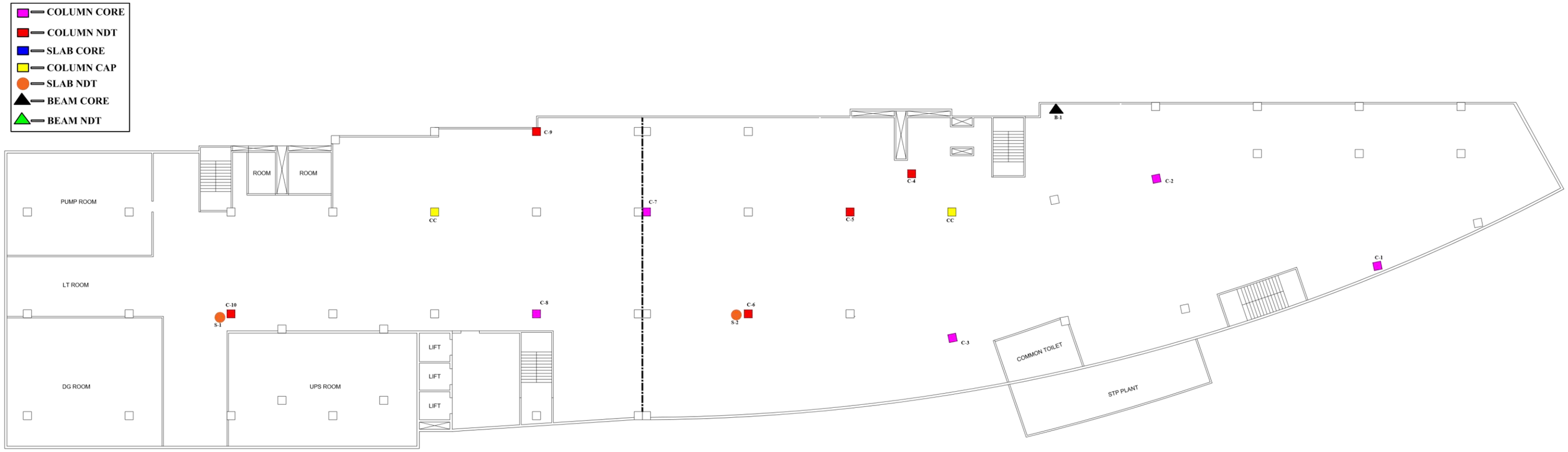
The chemical tests yielded that chloride, sulphate and pH are in the range of 0.078 to 0.098, 0.52 to 1.13 and 10.6 to 11.6 respectively.

4. RESULTS AND DISCUSSION

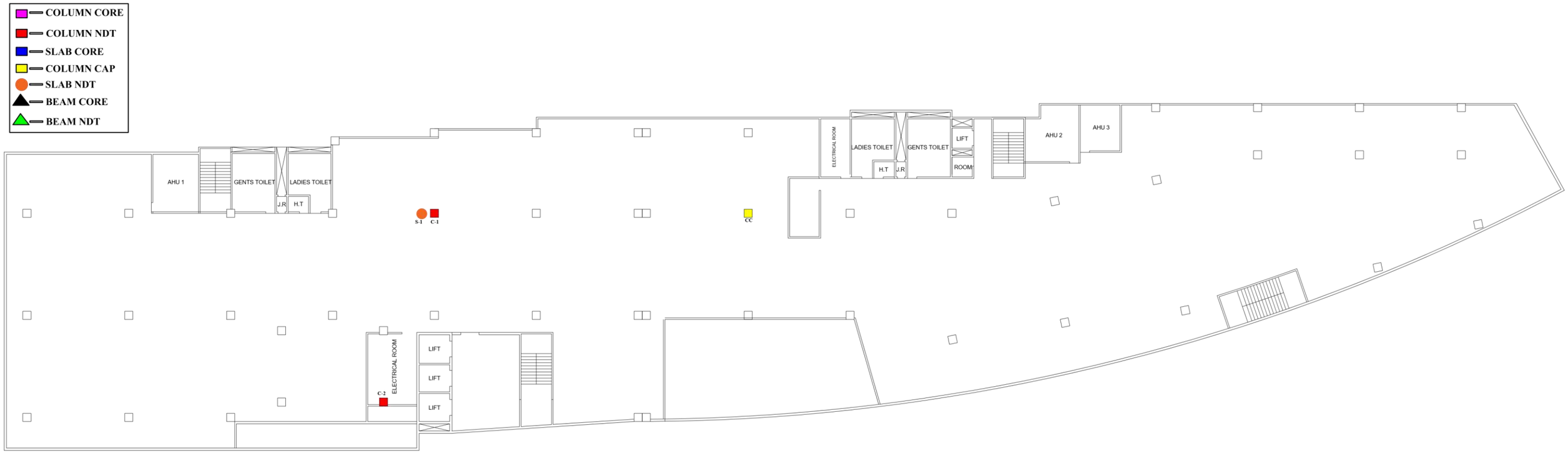
The inspected building located at Manyata Tech Park, Nagawara, Bengaluru has been assessed for its current structural condition based on the visual observations. Subsequently, non-destructive and semi-destructive tests have been conducted at appropriate locations and based upon the important observations and analysis, the following conclusions have been drawn.

4.1 Conclusions Based on Non-Destructive and Semi-Destructive Tests;

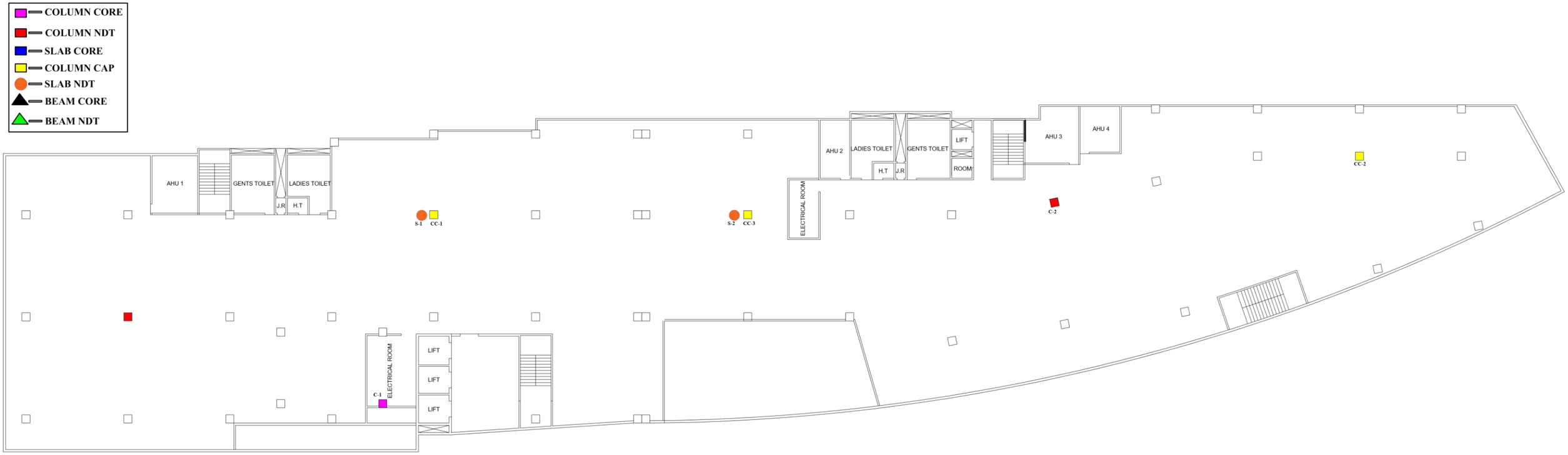
1. The data obtained from the UPV test has been analysed aiming to establish the understanding of the current state of concrete utilized in the building. Based on the UPV tests, the quality of concrete in terms of uniformity, incidence or absence of internal flaws, cracks and segregation, etc. has been assessed to be between good to excellent.
2. The rebound hammer test results have indicated that the residual strength of concrete is adequate and the average compressive strength are 35.5 and 33.6 MPa in columns, beams and slabs respectively.
3. The measured carbonation depth using phenolphthalein spray test at selected locations on RCC members of the structures covered under the study has been reported to be between 10 to 20 mm. Additionally the ratio of Carbonation depth to cover depth has been measured to check the intensity of carbonation attack on steel bar. Thus, it can be concluded that moderate carbonation has occurred in the inspected structure.
4. The data reported from the half-cell potential test indicated towards active corrosion of steel. The data has been interpreted to show up to 67.74% of the members have 50% chances of corrosion activity in the structure.
5. The core testing yielded the compressive strength in the range of 32.08 MPa and 30.97 MPa for beams respectively.
6. Chemical test results performed on crushed core samples indicated that the chloride content and sulphate content are within permissible limits.



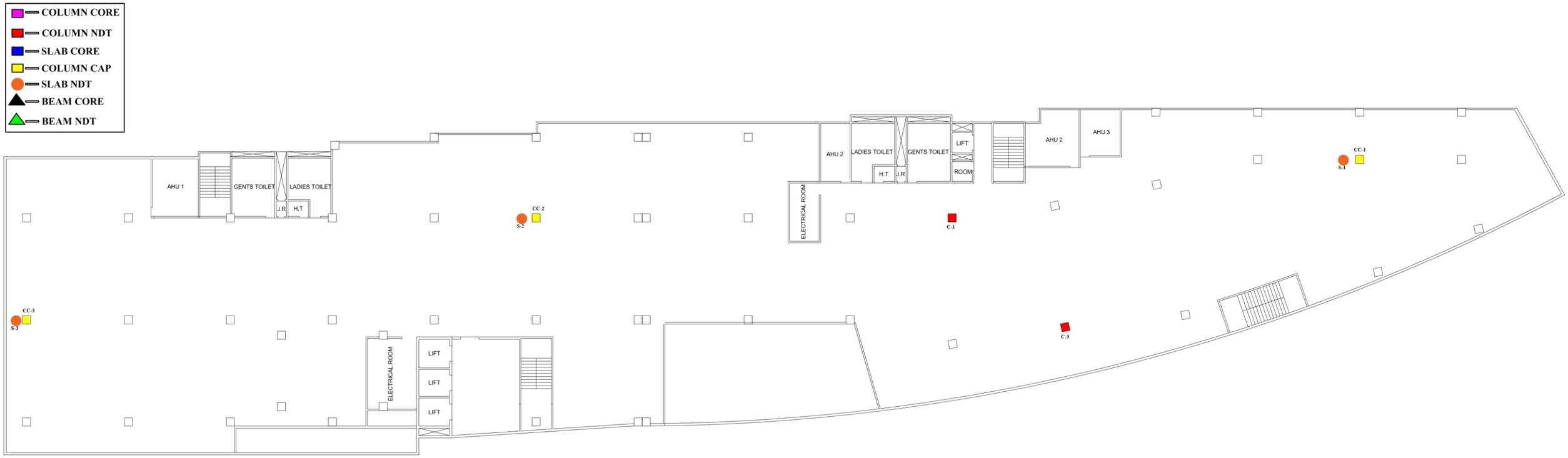
1 **BASEMENT FLOOR PLAN**
K BLOCK



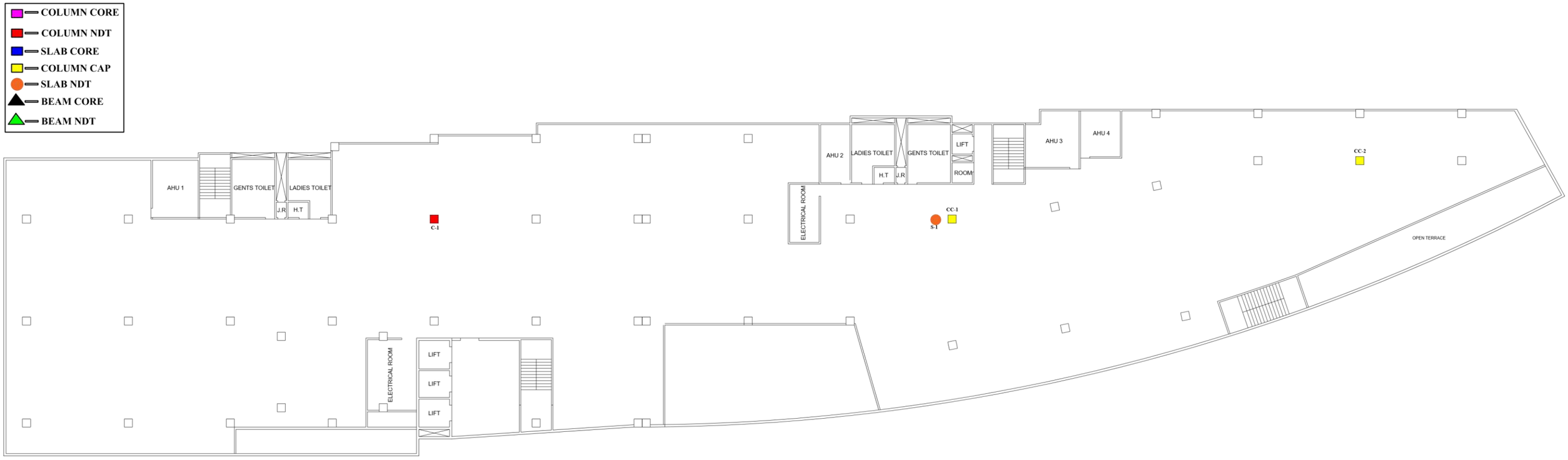
2 GROUND FLOOR PLAN
K BLOCK



3 **FIRST FLOOR PLAN**
K BLOCK

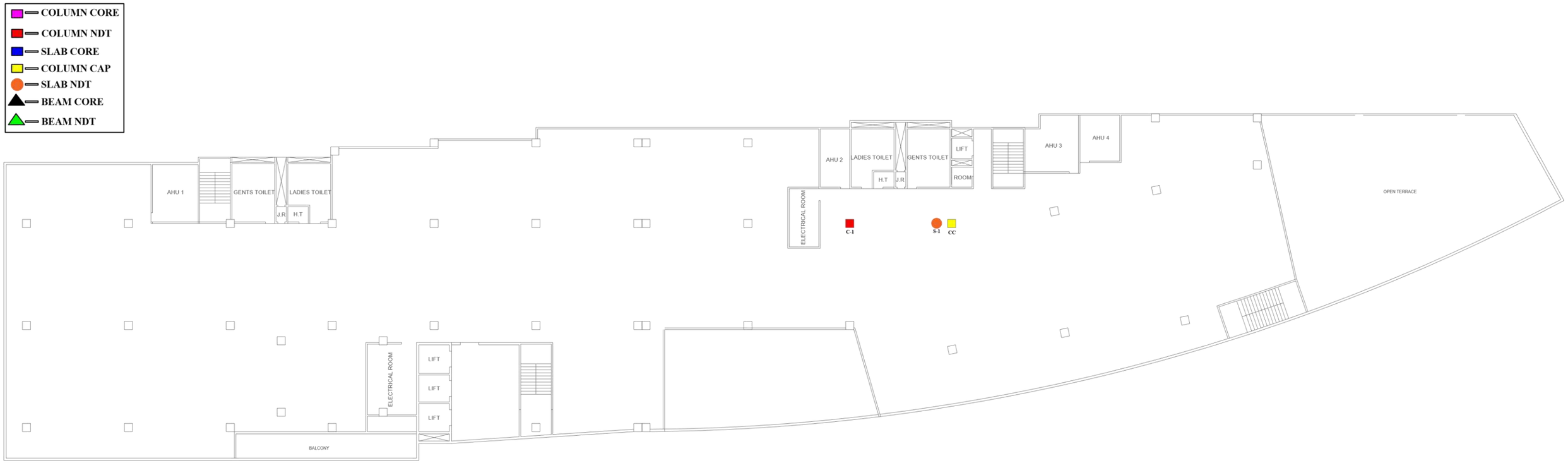


4 **SECOND FLOOR PLAN**
K BLOCK



5 THIRD FLOOR PLAN

K BLOCK



6 **FOURTH FLOOR PLAN**

K BLOCK

K BLOCK, MANYATA EMBASSY BUSINESS PARK, BENGALURU.

INFERENCE OF NON-DESTRUCTIVE TESTING:

Non-destructive tests viz. UPV, Half Cell, rebound hammer, core test and Chemical tests were carried out on the structure. The test result with their location plan is attached herewith including inferences and conclusions are as under:

1. Schmidt Hammer Test:

The Schmidt hammer tests were carried out at 42 locations of columns, beams and slab at the Basement to terrace level. The approximate compressive strength of concrete in columns is 35.5 N/mm2; in beams and slabs is 33.6 N/mm the average compressive strength thus above the grade of requirements.

2. Ultrasonic Pulse Velocity Test:

In this test, ultrasonic sound pulses are passed through sections of concrete members and based on the velocities of traverse of these pulses; indirect inferences are drawn regarding the density and quality of concrete.

This test was carried out from basement to terrace at 41 locations of columns, beams and slabs. The readings are in between 1.02Km/Sec to 7.40 Km/sec. It was noted that out of the 41 locations the readings, 63.41% are in the Excellent conditions, 17.07% in good condition, 12.2% in medium condition and 7.32% in doubtful conditions thus indicating honey comb or porosity is less in the concrete at the tested locations.

3. Carbonation Test:

Carbonation is the process in which carbon dioxide & carbon monoxide from atmosphere reacts with concrete elements to form weak acids. This process reduces the pH value of concrete & thus passivates the cover concrete creating conducive environment for active corrosion of reinforcement.

The carbonation and alkaline attack in the concrete surface were noted beyond reinforcements, which allowed the corrosion in the steel reinforcement.

Totally, 35 points were tested for Carbonation. The depth of penetration of carbonation at tested locations is 10 to 20mm. Results indicate that the carbonation is within the cover concrete and might travel beyond that may accelerate corrosion to the reinforcement.

4. Half Cell Potentiometer Test:

"HALF CELL POTENTIAL METER" test indicates presence or extent of corrosion process in the steel reinforcement. Electrical current is passed through the reinforcement through a Copper-copper sulphate half-cell and it is received from the adjoining concrete surface after thoroughly dampening the concrete surface to provide a medium for flow of current. The potential drop is measured which indirectly reveals the resistance offered by the concrete to the flow of current. Higher the resistance offered by concrete to the flow of current, lesser is the possibility of active corrosion process in the element.

Total 35 locations were tested and the result ranges between -160mv to -249mv. Around 10% probability of corrosion is seen over 32.26% of readings and 10 to 50% probability of corrosion is seen over 67.74% of readings in the results.

5. Core Test:

The "CORE SAMPLES" Test – the results of these tests indicates that the compressive strengths were observed average than the minimum requirement at the time of construction.

In this test, cores of concrete are extracted from the RCC elements and their compressive strength is measured. Thus, this test gives the actual strength of in-situ concrete.

This test was carried at 9 locations in columns. The actual equivalent cube compressive strength of concrete in column on an average is found around be 32.08N/mm^2 and in beam and slab it is 30.97 N/mm^2 which is average considering the age of the structure.

6. Chemical Tests:

These tests are done to assess the pH level, Chloride (Cl) content and SO3 content of concrete.

The pH level observed in 9 different locations, which are within the permissible limit.

Chloride content test done for 9 specimens are ranging from 0.078 to 0.098% which within permissible limit of 6Kg/Cum.

SO3 content are 0.52 to 1.13 % thus within permissible of 4%.

NDT CONCLUSION:

Considering all the NDT test results, the overall condition of the concrete is in good condition except few locations. The hammer and Core test results of concrete indicate average to good quality of concrete. However, looking at Half Cell Potential meter, Carbonation and UPSV results, there may be probability of corrosion in the reinforcement steel in future if suitable preventative measures are not implemented in near future. We do not have old structural drawings and DBR and hence difficult to comment about original grade of concrete, we may consider the average strength of concrete as M-30.

RECOMMENDATION

RECOMMENDATIONS

Considering our observations above and the age of the building, we recommend to undertaking the following repairs and restoration work to enhance the life and durability of the building structure and intended life of the building structure:

1. EXTERNAL WALLS:

As noted above the external walls of the building are observed minor corrosion & separation cracks, de-bonding of plaster. We recommend the following to restore the same:

a) The external plaster shall be checked with light weight hammer and debonded plaster shall be removed.
b) These patches shall be re-plastered with fibre mesh sand faced plaster with bonding agent for proper bonding.
c) All separation cracks and upper joints of brick wall and beam junction shall be exposed by 6" i.e., 3" above and below the junction of brick wall and RCC beam, create the V groove and filled with crack sealer materials with grouting of non-shrink cement grout. After groove is treated properly, 6" vide Geo- textile/ fibre mesh shall be applied to act as bond before external plaster is applied.
d) All other minor shrinkage cracks shall be removed in V groove and filled with crack seal filler materials.
e) We recommended filling of silicon sealant along the joints of aluminum frame of windows and the plaster sill to prevent seepage of water through it.
f) The deboned stone shall be replaced with new ones matching the existing stone cladding. During this process the adjacent stones shall be checked and if found debonded shall be replaced with new.

2. STRUCTURAL REPAIRS:

Cracks are observed over the external face and to some extent to internal structural members ; to avoid further distress / deterioration, we hereby suggest the following sequence of repairs.

a) Expose concrete member by removing plaster & loose debonded concrete where surface cracks appears and noted hollow sound.
b) Clean the concrete surface by close chipping of remove the rust scales from the exposed reinforcement or structural steel.
c) Provide the new reinforcement by welding or tying with existing reinforcement or steel section in case of section loss
d) Provide rust preventive coating to exposed reinforcement by applying polymer or epoxy etc.
e) Apply the bonding agent to damaged concrete & reinforcement surface if the concrete member / surface is honeycombed, it should be grouted with cement slurry pressure.
f) Re-built the lost cover concrete of structural member with polymer mortar, micro concrete, concrete grouting etc. as per intensity of damage
g) Re-plaster the surface by sand-faced or POP finish plaster with polymer additives & anti shrinkage polymer compound.
h) The entire concrete system shall be then provided with waterproof sand-face plaster.

3. TERRACE WATERPROOFING:

Since few cracks in IPS finish of terrace is observed with discoloration patches, we recommended applying of chemical membrane coating to entire terrace surface as a precautionary measure as per the methodology given below:

a. All the loose / cracked IPS shall be removed and redone with the IPS maintaining proper slope.

b. Providing and applying primer coat on pre-treated surface, SER557 and SEH740 with brush application thickness 140 to 150 microns approx. for natural cure.
c. Providing and applying flow able under layer SER component A and B with Ulfiller 120 base coat with fiber mash and natural cure
d. This waterproofing coating shall be continued over and upto top of parapet wall.
e. We recommended all this chemical coatings to be provided to all service pedestals and to the corner vattas
f. Top of all services duct shall be treated with brick pieces water proofing and finished with IPS with proper slope.
g. We further suggest to provide RCC copping to the entire parapet walls
h. This system of waterproofing to be followed to the lower level of terrace ie at 4^{th} and 3^{rd} floor levels.

4. OVER HEAD TANK , LMR , HEAD ROOM TOP SLAB:

Cracks are observed over the Water proofing surface hence we suggest following:

a. All the existing brick bat coba and IPS shall be removed carefully without disturbing the parent slab concrete
b. The exposed slab shall be checked and repaired with Polymer Mortar or Micro-Concrete depending on the intensity of delam.
c. Provide traditional method waterproofing with brick bat coba, and the top finished with IPS finish.
d. RCC coping shall be provided over the parapet bund walls with waterproofing plaster.
e. M.S. grills on any other services pipes or supports shall be removed & re fixed with proper pedestal above water proofing surfaces. All MS sections shall be coated with anti-corrosive treatment.

5. EXPANSION JOINT,

For carrying out treatment of the expansion joint in slabs & terrace level. The treatment should be carried out after properly removing the existing floor finishes.

Terrace/ Slab Horizontal Joint:

- Bund wall shall be opened and existing old expansion joint shall be exposed with removal of all filler materials.
- The opened joints shall be filled with breaker rods and sealed with silicone sealant of minimum 25mm thick.
- Bund wall shall be redone with Concrete.

Vertical Joint over the Walls:

1. Existing old expansion joint shall be exposed with removal all filler materials.

2. The opened joints shall be filled with breaker rods and sealed with silicone sealant of minimum 25mm thick.

3. Fixed expansion profile sheet of PVC/ Aluminum /Polycarbonate/ Stainless Steel etc. to protect the joint.

6. Chiller platform:

Chiller platform structural members are observed with corrosion, we suggest following remedy:

a. Existing surfaces of all structural steel sections which are deposited with rusting, scales of iron oxide & dusty particles should be cleaned by wire brush chisel & then ribbed with polish paper.

b. Then it will be washed under high water jet pressure.

c. After proper surface preparations, the structural steel surface shall be applied with one coat of zinc primer and two coats Epoxy based paint to safe guard it from weathering effects & environmental pollution.

Such type of treatment should be applied after every 4 years which will enhance serviceable life.

Cracks in RCC columns shall be repaired as per remedies mention in structural strengthening

7. Toilet water proofing:

As observed, there are few leakages through the toilet blocks at the lower floors, so we recommend the treatments in following two Steps:

Step I: To ascertain leakages from the floor we suggest to ponding of water, by sealing the out source of water and check for the leakages. If leakages are observed during the pond test, then following shall be carried out:

a. All the toilet fixtures shall be removed carefully and stored for re-usage.
b. Entire waterproofing shall be dismantled upto the parent concrete and the slab checked for the hollowness.
c. Polymer treatment/ Micro- concrete filling shall be done if delam observed.
d. Finish floor & wall up to 3' height with waterproof plaster in two coats & finish with neat cement slurry.
e. Relay the concealed plumbing drain pipes.
f. Re-do brick bats coba filling to the required level.
g. Finish top surface with IPS waterproofing with broom finish to receive the floor & wall tiles.
h. Finally, finish with approved quality tiles.

Step II: Leakages from concealed pipe lines shall be checked by keeping the Toilet dry/ un used and checking concealed pipes for five days. If leakages are found, then following shall be carried out in addition to step no. I:

a. All the plumbing fixtures shall be removed and relaid.

b. These pipe lines shall be then tested with pressure gauges and later sealed with waterproof plaster.

c. The wall tiles and plaster shall be removed and concealed pipe lines shall be exposed.

d. The existing damaged concealed pipe lines shall be removed and refixed.

e. Apply waterproof plaster in two coats to the walls.

f. After curing period of plaster, tiles as per approved pattern and design shall be fixed.

8. INTERNAL:

Few Separation Cracks and de-bonded IPS observed over the floor slab at basement for which we recommend preventive measure as following:

a. All cracks in IPS shall be opened in V shape and filled with Epoxy mortar.

b. De-bonded IPS shall be chipped and removed. These spots shall be redone with IPS along with bond coat.

c. Honey comb, delam concrete shall be removed and treated with polymer mortar or micro-concrete depending on the depth of distortions as mentioned in the structural repairs

9. Basement:

To attend the leakages in the retaining walls and ceiling, we suggest following:

a. Leakage spots in the retaining walls shall be identified and marked.

b. At these locations NRV valves shall be drilled and grouted with PU grouts.

c. Seepage from basement floors shall be arrested by grouting PU grouts.

d. Even after carrying out PU grouts if leakages are not arrested then we suggest traditional box type Shahbad waterproofing to the retaining walls. Either upto height of 1.20mtr or full height depending upon the height of leakages.

Cracks in IPS finish of basement flooring at few locations, we suggest crack shall be opened in v groove and filled with epoxy mortar.

Structural cracks, honey comb, delam shall be treated with polymer mortar or mico-concrete as suggested in the structural repair sub-head above.

10. Plumbing:

Plumbing pipes are replaced & repaired regularly on the need basis by maintenance teams. For the corrosions observed in the brackets of plumbing lines, we recommended replacing existing clamps with galvanised clamps. The rust formation over the MS chequered floor separator we suggest to apply one coat of zinc primer with two coats of epoxy paints.

11. PAINTING:

After carrying out need base structural repairs and patch plaster we recommend texture in patches matching to the existing shade and design to the external walls. These external walls shall be painted with 100% premium acrylic in two plus two coat system elastomatic paints

CONCLUSION

CONCLUSION

As mentioned in the observations the building structure is in good condition except minor need base repairs, waterproofing & painting work is required, hence we recommended to attend remedy as suggested & same shall be implemented to safe guard the building structure.

Through the findings from UPSV, Rebound Hammer and core cut we can conclude the grade of present concrete to M-30 to M35Mpa. During the survey, we did not have old structural drawings and DBR and hence difficult to comment about original grade of concrete, however through the NDT tests carried out we may consider the average strength of concrete as M-30.

Due to the age of the structure and leakages from external walls, terrace and Expansion Joints; etc. plays major role to damage the structural members of the building if it is not attending on time. To safe guard the structure against such problems, the suggested remedy shall be implemented to enhance the overall life of the building. Considering the present status of the building & extend life of the building it is necessary to carry out repairs to the building structure as per our recommendations.

Various leakages / seepages from the different parts and locations of the structure have created serviceability problems apart from contribution for corrosion damage of the structure. This will be continuing, if timely repair work is not carried out.

Hence, we recommend undertaking the repairs and restoration of the building and taking preventive measures including weather protection measures to avoid recurrence of such damage and serviceability problems in near future. The patch plumbing replacement works should also be carried out to avoid leakage. If the recommended repairs are undertaken, the structure would be restored to its original sound stage and its useful life would increase by 15 to 20 years' subject to periodic maintenance at every 5th year re-paint the building with major need base repairs if needed.

FOR **MAHIMTURA CONSULTANTS PVT.LTD.**

S.R. MAHIMTURA

(Chairman)

Transform Thoughts

31st May 2017

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the STRUCTURAL DESIGNS for the Commercial office buildings at Manyata Embassy Business Park for 2 towers, Block - L1 (Banyan) & Block - L2 (Willow), each tower comprising of Two basements + Ground floor and Ten upper floors + Terrace (2B+G+10+Terrace), at Survey No.100/2, 103/1, 103/2, 103/5, 103/6, 104/1, 104/2, 104/3, 104/4, 105/1, 105/2, 106/P, 104 & 108 of Rachenahalli of Thanisandra Village, K R Puram Hobli, Bangalore East, Bangalore city district, belonging to M/s Manyata Promoters Pvt Ltd., is designed based on the architectural plans by M/s RSP DESIGN CONSULTANTS (INDIA) PVT. LTD submitted to Concerned Development Authority KIADB Ref KIADB/DO-II/SUC/14549/PL-SANC/2013-14 dated 01/10/2013. The structure is a reinforced concrete framed structure with Columns suitably placed and Flat slab system for its office floors, Panel slab system for basements and podium and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF:

The structure is a reinforced concrete framed structure with Columns suitably at 11 meter center to center in general and Flat slab system for its office floors, Panel slab system for basements and podium and is complying with the Bureau of Indian Standard norms.

All the above structures are designed in accordance with IS:456 and IS:875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is analysed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis and design for building is done using the standard commercially available software's E-Tabs & SAFE for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm2 (Fe-500).

Cont..

Innotech Engineering Consult Pvt Ltd
No 457, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore - 560076
CIN: U74900KA2010PTC053179
T: +91 80 2678 0996 / 2678 9101 / 4142 6325
E-mail: innotech@innotechconsult.in / Website: www.innotechconsult.in

Developer: M/s MANYATA PROMOTERS PVT LTD (Embassy Group)
Architect: M/s RSP DESIGN CONSULTANTS (INDIA) PVT. LTD
Structural Design Consultant: M/s INNOTECH ENGINEERING CONSULT PVT LTD
Project Management Consultant: M/s SYNERGY PROPERTY DEVELOPMENT SERVICES PVT LTD.

CONSTRUCTION SUPERVISION:

The Project is supervised by a team of engineers from M/s Synergy Property Development Services Pvt Ltd for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated 30/05/2017 issued by M/s Synergy Property Development Services Pvt Ltd which confirms that the construction work has been done on the GFC drawings issues by the consultants and have met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

H.P.Yogesh
Director.
Regn # B.C C -BL /3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by M/s Synergy Property Development Services Pvt Ltd., Dated 30/05/2017.

innotech

Transform Thoughts

25th Feb 2015

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the **STRUCTURAL DESIGNS** for the Office Building **Block 'L3 (Hazel) at Manyata Embassy Business Park** comprising of 2 Basements + Ground floor + 10 Office Floors + Terrace, on Survey No. 100/2P, 101/1P, 101/2P, 102/2P, 102/5P, 103/1, 103/2, 103/5, 103/6, 104/1, 104/2, 104/3, 105/1P, 105/2P, 106/P, 107/P and 108/P of Nagawara Village, Bengaluru North Taluk, Bengaluru, belonging to **M/s Manyata Promoters Pvt Ltd.** is designed based on the architectural plans submitted to Concerned Development Authority KIADB **Ref KIADB/DO-II/SUC/14549/PL-SANC/2013-14 Dated 01/10/2013.** The structure is a reinforced concrete framed structure with column and flat slab system for office floors and waffle slab system for Podium and basement Floors and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF:

The structure is a reinforced concrete framed structure with column and flat slab system for office floors and waffle slab system for Podium and basement Floors and is complying with the Bureau of Indian Standard norms

All the above structures are designed in accordance with IS:456 and IS:875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is designed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis for building is done using the standard commercially available software's SAFE, E-Tabs and is designed for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm^2 (Fe-500).

Innotech Engineering Consult Pvt Ltd Bangalore

Cont...

Innotech Engineering Consult Pvt Ltd
No 457, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore – 560076
CIN: U74900KA2010PTC053173
T: 91 80 2678 0996 / 2678 9101 / 4142 6325
Email: innotech@innotechconsult.in / Website: www.innotechconsult.in

CONSTRUCTION SUPERVISION:

The Project is supervised by a team of engineers from **M/s Synergy Property Development Services Pvt Ltd** for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated **24.02.2015** issued by **M/s Synergy Property Development Services Pvt Ltd** which confirms that the construction work has been done on the GFC drawings issues by the consultants and have met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

H.P.Yogesh
Director.
Regn # B C C -BL /3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by **M/s Synergy Property Development Services Pvt Ltd., Dated 24/02/2015.**

Innotech Engineering Consult Pvt Ltd

T.S. Gururaj
Founder - Principal Consultant

B.R.V. Murthy
Founder - Principal Consultant

B.S.A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE
ESTD 1987

L5

17th April 2009

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK – Blocks – L5

This is to certify that the building, **Block- L5 at MANYATA EMBASSY BUSINESS PARK** having Wing A Basement + Ground Floor + 8 Upper Levels + Terrace, Wing B Basement + Ground Floor +10 Upper Levels + Terrace with a total built-up area of 38,809.43 sq.mts. located at Sy.No. 99/1P, 99/2P,100/2 of Nagavara Village, Kasaba Hobli,Bangalore North Taluk is designed based on the architectural plans sanctioned vide LP: IADB/DO/ II /SUC/14549/plsanc / 08-09 Dated 13th January 2009 by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore – 560 001.

The structure is a reinforced concrete framed structure, floor plate is of flat slab with column drop system and peripheral beam and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 -2000 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on the supervision done by Project Management team M/s. Synergy Property Development Services Pvt. Ltd. vide confirmed by their letter dated 17th April 2009 and our supervision done occasionally, we are in a position to state and confirm that the structural work has been carried out in accordance with the drawings and specifications. The building is safe for beneficial occupation and for the purpose it is intended

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder-Principal Consultant
BCC/BL/3.2.3/E-310/87-88

Branch
10 Palayakaran Street Plot # 6 (Behind Jaya TV)
Ekkatuthangal Chennai - 600 097
302 Zeenath Residency Srinagar Colony
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Corporate Office
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RAMBOLL

RAMBOLL BUILDING

STABILITY CERTIFICATE

Date: 11th December 2019

Ramboll India Pvt. Ltd.
Atul Projects, Corporate Avenue
,Unit No. 605, "E" Wing, Chakala,
Andheri (E), Mumbai – 400 093
(Landmark: Opp. Skoda
showroom)
T + 91 22 62589797
www.ramboll.com
Reg.no. U72200DL2006PTC276587

Proposal: Proposed Manyata Office Block 1 and 2 located Survey No. 82/1P, 82/2P, 83/1P, 83/2P, 84P, 85/2P,85/5P, 85/6P, 85/7P of Manyata Embassy Business Park, Nagawara, Bengaluru

Reference number :

Name and address of Owner : Manyata Promoter Private Limited
9/1, First Floor, Classic Court,
Richmond Road,
Bengaluru, Karnataka - 560025

Name and address of Architect: Andy Fisher Workshop Private Limited
203, Henderson Road, #06-06,
Henderson Industrial Park,
Singapore – 159546

This is to certify that I am the Consulting Structural Engineer for the Proposed Manyata Office Block 1 and 2 located Survey No. 82/1P, 82/2P, 83/1P, 83/2P, 84P, 85/2P, 85/5P, 85/6P, 85/7P of Manyata Embassy Business Park, Nagawara, Bengaluru and that the foundations and columns of the Building have been designed to take the superimposed load of the Ground + 10 Upper Floors.

Based on the Completion certificate received from Project Management Consultants, Synergy property Development Services Pvt. Ltd date Dec 11, 2019, all structural work is carried out as per our structural designs and drawings. On this basis I certify that the said structure is safe and stable for the purpose for which it is intended.

The design of the structure conforms to I.S. 456:2000 and I.S: 875. It is further certified that the structure has been designed and constructed for the earthquake forces as per the requirements of I.S: 1893-2016. Adequate soil investigation work was carried out for design of foundation.

For Ramboll India Pvt.Ltd,

(Mr. Rajesh M. H.)
B.E , M.Tech, Registered Structural Engineer

RAJESH M.H., M.Tech.
STRUCTURAL ENGINEER
REG. No. BCC/BL-3.6/SE-292/2018-19

T. S. Gururaj
Founder - Principal Consultant

B. R. V. Murthy
Founder - Principal Consultant

B. S. A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE

July 12, 2007

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - IBM - D4

This is to certify that the building, "**MANYATA EMBASSY BUSINESS PARK - IBM - D4** having Basement + Ground + Ten Upper floors, Terrace with total built-up area of 6,17,756 Sft. located at SY.NOS:PC117(P),18/1,18/2, 18/3,18/4, 18/5,18/6, 18/7,18/9,19/1,19/2,19/3,19/4,19/5,20/1,20/2,20/3,20/4,21,22/1,22/2,23/1,23/2,24,25/1(P), 26(P), 27/3,27/4,27/5, 27/6,27/7,27/8,28/2A, 28/2B, 28/3(P), 28/5,28/6,36/5 in Rachenahalli Village, K.R.Puram Hobli. Bangalore (East). Total Area=37A-21G

Sy.Nos: PC283/3A, 83/3B, 83/4,113/1,113/2,113/3,114/2(P), 115/2,116/4,116/6, 117/1,121/1, 121/2, 122, 123/1A(P), 123/1B, 123/2, 124/1,124/2A &124/3B.in Nagawara Village-Kasaba, Bangalore (North),Total Area=18A-03 3/4G

Sy.Nos:PC381/8(P),83/1,83/2,85/4,85/5,85/6,85/7,85/9,99/1(P),99/2,99/3,100/2,103/5,103/6,105/1105/2,105/3,105/4,106(P),110/1,110/2,110/3,111/1,111/2,111/3,111/4,111/5,111/6,112/1,112/2,112/3, 115/1,116/1,116/2A, 116/2B, 116/3, in Nagawara Village-Kasaba,Bangalore (North),Total Area=30A-21G

Sy Nos: 27/1,27/2,27/9,28/1(P), 29/2,29/3(P), 35/3B, 35/3C, 36/1(P), 36/2(P), 36/3,36/4(P), 36/6(P), 36/7(P), in Rachenahalli Village, K.R.Puram Hobli. Bangalore (South),Total Area=7A-03 1/2G

SY.NOS: PC 4 82/1(P), 84(P), 85/1,98,114/1,114/2, 114/3,114/4, 114/5,115/3, 116/5, 123/1A, 124/2B, 124/3A. in Nagawara Village-Kasaba, Bangalore (North),Total Area=12A-27 1/4G. Sy. Nos: PC 5 81/8(P), 82/1,84(P), 85/3(P). in Nagawara Village-Kasaba, Bangalore (North). Total Area=01A-02G, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DOII/SVC/14549/PL.SANC/06-07 dated 26/09/2006 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete waffle slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

Potential Service Consultants (P) Ltd
Suraj Ganga Soft Park 34 1st Main
3rd Phase J.P Nagar Bangalore 560 078
Tel : 91 80 2649 3122 (8 lines)
Fax: 91 80 2649 3217
email: info@potentialconsultants
www.potentialconsultants.com

OF EXCELLENCE

POTENTIAL
EXPERIENCE EXCELLENCE

It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on our periodic supervision and reports submitted by our supervision team and Project Management Team, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
Founder - Principal Consultant
BCC/BL/3.2.3/E-310/87-88

T.'S. Gururaj
Founder - Principal Consultant

B. R. V. Murthy
Founder - Principal Consultant

B. S. A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE

Date: 10/04/09

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - BLOCK - C

This is to certify that the building Block **C , Consisting of Block C1, C2, & C3 and C4 at MANYATA EMBASSY BUSINESS PARK,** block C1 wing A & Wing B, Wing A Lower Basement floor + Upper Basement floor + Ground floor + 3 Upper floors & Terrace, wing B Lower basement floor + Upper Basement floor + Ground floor + 4 Upper Floors & Terrace.

Block C2 and Block C3, Block C2 having wing A & Wing B Basement floor + Ground floor + 8 upper floors & Terrace, Block C3 Basement floor + Ground floor + 12 upper floor & Terrace.

Block C4 Wing A Basement floor + Ground floor + 4 upper floor & Terrace floor and wing B Basement floor + Ground floor + 6 Upper floors & Terrace floor located at Sy No. 98, 99/2, 99/3, 106(P), 110/2, 110/3, 111/1, 111/2, 111/3, 111/4, 111/5, 111/6, 112/1, 112/2, 112/3, 113/1, 113/2, 113/3, 115/1, Nagavara Village, Kasaba Hobli, Bangalore North Taluk, Bangalore is designed

Potential Service Consultants (P) Ltd
Consulting Engineers
Suraj Ganga Soft Park 34
1st Main 3rd Phase J.P Nagar
Bangalore 560 078.
Tel : +91 80 2649 3122 (8 lines)
Fax: +91 80 2649 3217

20 Years
OF EXCELLENCE
1987 - 2007

POTENTIAL
EXPERIENCE EXCELLENCE

based on the architectural plans sanctioned vide KIADB/DO II/14549/ SUC/PL-SANC/2007-08 dated 22/09/07 by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP house, 30 , Museum Road, Bangalore 560 001.

This structure is a reinforced concrete framed structure with column and flat slab with drops system for its floor plate and complying with Bureau of Indian Standards norms and safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS 875. The structure falls under Seismic Zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed. We also hereby confirm that quality tests done at site for the materials used and the works executed satisfies the design standards given by the Consultants.

Based on the supervision done by project Management team M/s. Synergy Property Development Services Pvt . Ltd. Vide confirmed by their letter dated 19th September 2008 and our supervision occasionally, we are in apposition to state and confirm that the structural work has been carried out in accordance with the drawings and specifications. The building is safe for beneficial occupation and the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
President
BCC/BL/3.2.3/E-310/87-88

POTENTIAL SERVICE CONSULTANTS (P) LTD.
Consulting Engineers
T.S. Gurraj B.R.V. Murthy

POTENTIAL
EXPERIENCE EXCELLENCE

June 2, 2006

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - IBM - D1 & D2

This is to certify that the building, **"MANYATA EMBASSY BUSINESS PARK - IBM - D1 & D2"** whereas D1 having Basement + Ground + Four Upper floors, Terrace with total built-up area of 3,27,600 Sft. and D2 having Basement + Ground + Three Upper floors, Terrace with total built-up area of 2,67,600 Sft. located at Sy.No 22/1, 23/1, 24, 26/P, 27/3, 27/4, 28/5 & 28/6 in Rachenahali Village, K.R. Puram, Hobli, Bangalore East, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DO/SVC/14549/PLSAN/05-06 dated 30-09-05 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete framed structure with column, beam and slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (par. 1, - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on our periodic supervision and reports submitted by our supervision team and Project Management Team, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gurraj
President
BCC/BL/3.2.3/E-310/87-88

POTENTIAL SERVICE CONSULTANTS (P) LTD.

POTENTIAL
EXPERIENCE EXCELLENCE

T.S. Gururaj - President B.R.V. Murthy - Vice-President S.S.A. Narayan

June 2, 2006

STABILITY CERTIFICATE
MANYATA EMBASSY BUSINESS PARK - IBM - D1 & D2

This is to certify that the building, **"MANYATA EMBASSY BUSINESS PARK - IBM - D1 & D2"** whereas **D1** having Basement + Ground + Four Upper floors, Terrace with total built-up area of 3,27,600 Sft. and **D2** having Basement + Ground + Three Upper floors, Terrace with total built-up area of 2,67,600 Sft. located at Sy.No 22/1, 23/1, 24, 26/P, 27/3, 27/4, 28/5 & 28/6 in Rachenahali Village, K.R. Puram, Hobli, Bangalore East, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DO/SVC/14549/PLSAN/05-06 dated 30-09-05 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete framed structure with column, beam and slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on our periodic supervision and reports submitted by our supervision team and Project Management Team, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
President
BCC/BL/3.2.3/E-310/87-88

T. S. Gururaj
Founder - Principal Consultant

B. R. V. Murthy
Founder - Principal Consultant

B. S. A. Narayan
Principal Consultant

POTENTIAL
EXPERIENCE EXCELLENCE

July 12, 2007

STABILITY CERTIFICATE

MANYATA EMBASSY BUSINESS PARK - IBM - D3

This is to certify that the building, **"MANYATA EMBASSY BUSINESS PARK – IBM - D3"** having Basement + Ground + Ten Upper floors, Terrace with total built-up area of 4,26,243 Sft. located at Sy.Nos:PC117(P),18/1,18/2,18/3,18/4, 18/5, 18/6, 18/7, 18/9,19/1,19/2,19/3,19/4,19/5,20/1,20/2,20/3,20/4,21,22/1,22/2,23/1,23/2,24,25/1(P), 26(P), 27/3,27/4,27/5, 27/6,27/7,27/8,28/2A, 28/2B, 28/3(P), 28/5,28/6,36/5. in Rachenahalli village, K.R.Puram Hobli. Bangalore (East). Total Area=37A-21G

Sy.Nos: PC283/3A, 83/3B, 83/4,113/1,113/2,113/3,114/2(P), 115/2,116/4,116/6, 117/1,121/1, 121/2, 122, 123/1A(P), 123/1B, 123/2, 124/1,124/2A &124/3B. in Nagawara Village-Kasaba, Bangalore (North),Total Area=18A-03 3/4G

Sy.Nos:PC381/8(P),83/1,83/2,85/4,85/5,85/6,85/7,85/9,99/1(P),99/2, 99/3,100/2,103/5,103/6,105/1105/2,105/3,105/4,106(P),110/1,110/2, 110/3,111/1,111/2,111/3,111/4,111/5,111/6,112/1,112/2,112/3, 115/1,116/1,116/2A, 116/2B, 116/3, in Nagawara Village-Kasaba,Bangalore (North),Total Area=30A-21G

Sy Nos: 27/1,27/2,27/9,28/1(P), 29/2,29/3(P), 35/3B, 35/3C, 36/1(P), 36/2(P), 36/3,36/4(P), 36/6(P), 36/7(P), in Rachenahalli Village, K.R.Puram Hobli. Bangalore (South),Total Area=7A-03 1/2G

POTENTIAL
EXPERIENCE EXCELLENCE

SY.NOS: PC 4 82/1(P), 84(P), 85/1,98,114/1,114/2, 114/3,114/4, 114/5,115/3, 116/5, 123/1A, 124/2B, 124/3A. in Nagawara Village-Kasaba, Bangalore (North),TOTAL AREA=12A-27 1/4G. Sy. Nos: PC 5 81/8(P), 82/1,84(P), 85/3(P). In Nagawara Village- Kasaba, Bangalore (North). Total Area=01A-02G, Bangalore is designed based on the architectural plans sanctioned vide KIADB/DOII/SVC/14549/PL.SANC/06-07 dated 26/09/2006 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001 is designed based on the architectural plans sanctioned vide KIADB/DOII/SVC/14549/PL.SANC/06-07 dated 26/09/2006 submitted to Bangalore Development Authority by RSP Architects Planners and Engineers (I) Pvt. Ltd., RSP House 30 Museum Road, Bangalore - 560 001.

The structure is a reinforced concrete waffle slab system for its floor plate and is complying with the Bureau of Indian Standard norms and is safe and suitable for the purpose for which it is designed.

It has been designed in accordance with IS: 456 and IS: 875. The structure falls under Seismic zone II as per Seismic code IS: 1893 (part 1) - 2002 and has been designed accordingly. The structure is safe and suitable for the purpose for which it is designed.

Based on our periodic supervision and reports submitted by our supervision team and Project Management Team, we are in a position to state that the structural work has been carried out in accordance with the drawings and to our satisfaction. The building is safe for beneficial occupation and for the purpose it is intended.

for Potential Service Consultants (P) Ltd.,

T.S.Gururaj
President
BCC/BL/3.2.3/E-310/87-88

Transform Thoughts

31st May 2017

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the STRUCTURAL DESIGNS for the Commercial office buildings at Manyata Embassy Business Park for 2 towers, Block - L1 (Banyan) & Block - L2 (Willow), each tower comprising of Two basements + Ground floor and Ten upper floors + Terrace (2B+G+10+Terrace), at Survey No.100/2, 103/1, 103/2, 103/5, 103/6, 104/1, 104/2, 104/3, 104/4, 105/1, 105/2, 106/P, 104 & 108 of Rachenahalli of Thanisandra Village, K R Puram Hobli, Bangalore East, Bangalore city district, belonging to M/s Manyata Promoters Pvt Ltd., is designed based on the architectural plans by M/s RSP DESIGN CONSULTANTS (INDIA) PVT. LTD submitted to Concerned Development Authority KIADB Ref KIADB/DO-II/SUC/14549/PL-SANC/2013-14 dated 01/10/2013. The structure is a reinforced concrete framed structure with Columns suitably placed and Flat slab system for its office floors, Panel slab system for basements and podium and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF:

The structure is a reinforced concrete framed structure with Columns suitably at 11 meter center to center in general and Flat slab system for its office floors, Panel slab system for basements and podium and is complying with the Bureau of Indian Standard norms.

All the above structures are designed in accordance with IS:456 and IS:875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) - 2002, and is analysed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis and design for building is done using the standard commercially available software's E-Tabs & SAFE for the various combinations of loads as per BIS codal requirements.

The concrete strength for the project varies from M25 to M45 for various elements and the reinforcing steel has yield strength of 500 N/mm2 (Fe-500).

Cont..

Innotech Engineering Consult Pvt Ltd
No 457, 7th Cross, 2nd Main, 2nd Stage, BTM Layout, Bangalore - 560076
CIN: U74900KA2010PTC053179
T: +91 80 2678 0996 / 2678 9101 / 4142 6325
E-mail: innotech@innotechconsult.in / Website: www.innotechconsult.in

Developer: M/s MANYATA PROMOTERS PVT LTD (Embassy Group)
Architect: M/s RSP DESIGN CONSULTANTS (INDIA) PVT. LTD
Structural Design Consultant: M/s INNOTECH ENGINEERING CONSULT PVT LTD
Project Management Consultant: M/s SYNERGY PROPERTY DEVELOPMENT SERVICES PVT LTD.

CONSTRUCTION SUPERVISION:

The Project is supervised by a team of engineers from M/s Synergy Property Development Services Pvt Ltd for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated 30/05/2017 issued by M/s Synergy Property Development Services Pvt Ltd which confirms that the construction work has been done on the GFC drawings issues by the consultants and have met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For Innotech Engineering Consult Pvt Ltd

H.P.Yogesh
Director.
Regn # B.C C -BL /3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by M/s Synergy Property Development Services Pvt Ltd., Dated 30/05/2017.

Constructure™

Ref:CDPL/M3/Misc-01 dtd 09-May-2020

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the 'Structural Designs' for the **Office Building Block M3 at Manayata Embassy Business Park** is madeup of IT Office Block & the Services Block, separated by an expansion joint. The two buildings have the floors arrangement as below:

- IT Office Block- comprising of 3 Basements (for parking) + GF (part parking) + 4 floors (parking) + 15 (Office Floors) + Terrace
- Services Block- comprising of 3 Basements (for parking) + GF (Services) + 8 floors (parking/ Services) + Terrace.

This complex is going to be situated at Survey no. 35/3A, 37/1, 39/1, 39/2B, 40/3, 40/6 Ward No. 5 at Rachenahalli Village, K.R. Puram, Hobli, Outer Ring Road, Bangalore East Taluk, Bangalore, Karnataka, belonging to M/s Manyata Promoters Pvt Ltd and is designed based on the architectural plans submitted to Concerned Development Authority BBMP vide ref no. BBMP/addl.dir/JDNORTH/0028/19-20 dtd 29-Jan-2020. The structure is a Steel- concrete Composite Framed structure with both columns and beams in composite members and Deck sheet+ concrete forming the slab system. **The structure is complying with Bureau of Indian Standards norms and Design is safe and suitable for the purpose for which it is intended.**

DESIGN BRIEF

The above structures (for Service Block & IT Office building) are designed in accordance with the relevant Indian and AISC standards as applicable. A composite steel frame structural system has been used with sufficient stiffness obtained by providing shear walls to keep lateral displacements within limits. At DG area and non-tower area at ground floor RCC beams and slab are provided. Steel–concrete composite columns have been chosen to reduce the column sizes. Composite floor system has been used with corrugated steel deck sheeting for economy and fast construction execution. The lateral resistance system being OMRF + Ductile shear walls. This structural system results in speedy construction with possibility of working on parallel front. Encased-steel columns ("I" Section) laid out in a rectangular grid according to architectural and structural needs. The floor system consists of primary and secondary steel beams supporting an overlaid deck slab. Column to column beams are moment resisting beam and all secondary beams are moment released beams.

Loading has been considered as per IS:875. The structure falls under seismic Zone II as per IS:1893 (part-1), year 2016 and is designed for the suitable combinations of DL, LL, Wind loads and earthquake loads as applicable. The analysis for the building has been done using commercially available Software ETABS for superstructure and SAFE for foundations for the various combinations of loads stipulated in BIS standards. The concrete strength for various elements has been chosen between M30 to M80 based on requirements and the High yield strength deformed TMT bars with a minimum yield stress of 500 MPa, a minimum elongation of 14.5% and other specifications conforming to IS: 1786 have been adopted for 8mm to 32mm dia bars.

Harlom Gera
Director, CDPL.

CONSTRUCTURE DESIGNS PVT. LTD.

Constructure Designs Pvt. Ltd. (CDPL)
Abhishek Plaza, 3rd Floor Part - II, Pocket - B Mayur Vihar - II, New Delhi - 110 091
Tel.: +91-11-22776008, 22724917 Fax : +91-11-22776036 e-mail : constructure@constructure.co.in
www.constructure.co.in

6th June 2024

STRUCTURAL STABILITY CERTIFICATE

This is to certify that the STRUCTURAL DESIGNS for the **IT DEVELOPMENT Parcel 1 M3 Block at Embassy Manyata Business Park** for **a tower** comprising of Three Basements + Ground floor + Eighteen upper floors and Terrace (3B+G+18+Terrace), at SURVEY NOS -35/2, 35/3A, 37/1, 39/1, 39/2B, 40/3, & 40/6 Rachenahalli Village, Ward No 6, K R Puram Hobli, Bangalore East Taluk, belonging to **M/s Embassy Property Developments Pvt Ltd.** is designed based on the architectural plans provided to us by M/s RSP Design Consultants (India) Pvt ltd and submitted to Concerned Development Authority. The structure is a reinforced concrete framed structure with Columns suitably placed and PT Flat slab system for its office and Basement floors, and is complying with the Bureau of Indian Standard norms and Design is safe and suitable for the purpose for which it is intended.

DESIGN BRIEF;

The structure is a reinforced concrete framed structure with Columns suitably placed and PT Flat slab system for its office and Basement floors, and is complying with the Bureau of Indian Standard norms.

The above structure is designed in accordance with IS: 456 and IS: 875. The structures falls under Seismic Zone II as per the Seismic code IS: 1893 (part 1) 2016, and is designed for the combination of loads due to dead load, live load, wind load and earthquake loads. The analysis for the tower is done using the standard commercially available software's E Tabs, SAFE and are designed for the various combinations of loads as per BIS code requirements.

The concrete strength for the tower varies from M30 to M70 and for various other elements varies from M10 to M50; the reinforcing steel has yield strength of 550 N/mm^2 (Fe-550).

Innotech Engineering Consult Pvt Ltd
Potential House, 1st Floor, 35/B, 1st Main Road, 3rd Phase, J P Nagar, Bengaluru 560078
CIN: U74900KA2010PTC053179
T: +91 80 4142 6325 / 43748640 / 43748760
E-mail: Innotech@innotechconsult.in / Website: www.Innotechconsult.in

CONSTRUCTION SUPERVISION

The Project is supervised by team of engineers from **M/s Colliers International (India) Property Services Pvt Ltd** for quality of work, construction methodology, testing of materials such as cement, sand, aggregates, admixtures and reinforcement steel. The reports of all the tests done by the Project Management Consultants are available for verification at site and we as structural design consultants for the project are in a position to state that based on letter dated 06-06-2024 issued by **M/s Colliers International (India) Property Services Pvt Ltd** which confirms that the construction work has been done on the GFC drawings issued by the consultants and has met the design specifications, we are in a position to state and confirm that the structural works carried out are safe for beneficial occupation and for the purpose it is intended.

For **Innotech Engineering Consult Pvt Ltd.**

H.P.Yogesh.
Director
Regn# BCC - BL/3.6-STRL.E.67:09-10

Enclosed: Copy of the completion certificate and stability issued by M/s **Colliers International (India) Property Services Pvt Ltd** Dated 06-06-2024.

Innotech Engineering Consult Pvt Ltd
Potential House, 1st Floor, 35/B, 1st Main Road, 3rd Phase, J P Nagar, Bengaluru 560078
CIN: U74900KA2010PTC053179
T: +91 80 4142 6325 / 43748640 / 43748760
E-mail: innotech@innotechconsult.in / Website: www.innotechconsult.in

Karnataka State Pollution Control Board

Parisara Bhavana,No.49, Church Street,Bengaluru-560001

Tele : 080-25589112/3, 25581383/388 Fax:080-25586321 Email id: ho@kspcb.gov.in

Consent For Establishment -Expand(CFE-EXP)

As per the provisions of

The Water (Prevention & Control of Pollution) Act, 1974

&

The Air (Prevention & Control of Pollution) Act, 1981

To

Embassy Manyata Business Park by Manyata Promoters Private Limited,

for the Facility located at,

Embassy Manyata Business Park by Manyata Promoters Private Limited,at Various Sy.Nos of Rachenahalli & Thanisandra Villages, both of K R Puram Hobli, Bengaluru East Taluk and Nagawara Village, Kasaba Hobli, Bengaluru North Taluk, Outer Ring Road, Bengaluru ,

Bangalore Urban

Consent Order No	PCBID	INW ID	Industry Colour/Scale	Date of Issue
CTE-353912	106730	345452	RED/LARGE	06/05/2026
CTE-353912	106730	345452	RED/LARGE	06/05/2026

This Consent is granted for the Products/ Activity/Service name indicated in the annexure along with the terms & conditions attached to this order

Validity : 07/11/2032

Combined Consent Order No: CTE-353912 **PCB ID:** 106730 **GSC No :** PB0XG0000335452 **Date:** 06/05/2026

To,

The Applicant,

Embassy Manyata Business Park by Manyata Promoters Private Limited

Embassy Point, No:150, Infantry Road,
Bangalore-01

Sir,

Sub: Consent for Expansion of the unit in the Existing premises under the Water (Prevention & Control of Pollution) Act,1974 & the Air (Prevention & Control of Pollution) Act, 1981

Ref: 1.CFE expansion application submitted by the organization on 21/01/2026 at Regional Office KSPCB

2.Inspection of the project site by Regional Officer on 04/02/2026

3.Proceedings of the ECM dated 09/04/2026 held on08/04/2026

With reference to the above, Karnataka State Pollution Control Board hereby accords **Consent for Expansion** of the unit in the existing premises under the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981 at the location indicated below subject to the terms & conditions indicated in Schedule Annexed.

Location:

Name of the Industry: Embassy Manyata Business Park by Manyata Promoters Private Limited

Address: at Various Sy.Nos of Rachenahalli & Thanisandra Villages, both of K R Puram Hobli, Bengaluru East Taluk and Nagawara Village, Kasaba Hobli, Bengaluru North Taluk, Outer Ring Road, Bengaluru,

Industrial Area: Not In I.A, Nagawara,Rachenahalli,Thanisan,

Taluk: BBMP- W- 6, District: Bangalore Urban

CONDITIONS:

1. The Consent for Expansion is granted considering the following activities:

Sr	Product Name	CFE Qty	CFO Qty	Applied Qty	Units	Existing/Proposed
1	it/ites park, offices, commercial. retail, hotels & banquet hall with bua of 29,37,517 sqm (existing-28,76,516 sqm + proposed-61,001 sqm)	2876516.0000	1809605.0000	61001.0000	Meter Square	Proposed

2. This consent for establishment is valid up to 07/11/2032 from the date of issue.
3. The applicant shall not undertake further expansion/diversification without the prior consent of the Board.
4. The applicant shall obtain necessary license/clearance from other relevant statutory agencies as required under the law.

I. WATER CONSUMPTION:

1. The source of water shall be from BWSSB and shall obtain prior permission from the concerned authority.Total water consumption shall not exceed as indicated below:

Particulars	Water Consumption(KLD)	Water Discharge(KLD)	Water Source	Existing/Proposed
Domestic Purpose	1123.00	1011.00	BWSSB	Proposed

II. WATER POLLUTION CONTROL:

1. The discharge from the premises of the applicant shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.

2. The sewage/domestic effllluent shall be treated in Septic Tank with Soak pit.No overflow from the soak pit is allowed.The septic tank and Soak pit shall be as per IS 2470 Part-I & Part-II.

3. The Effluent Treatment Plant proposal is generally agreeable and shall be constructed as per the specifications mentioned in the proposal and it shall consist of following units.

4. The industry shall treat the domestic wastewater in the Sewage Treatment Plant (STP) as per the proposal submitted. It shall meet the standards specified in Annexure-I & shall be used on land for gardening/greenbelt within the factory premises.

5. If the treatment plant does not achieve the effluent standards stipulated in this consent order and/or if it is found to be inadequate, then the industry shall have to modify the units so as to meet the standards with prior consent of the Board.

6. All the treatment units shall be totally impervious.

7. The applicant shall provide separate flow meter for measuring the quantity of effluents through ETP and separate energy meter and shall maintain a logbook for the verification of inspecting officers.

8. The applicant shall operate and maintain Treatment Plant continuously and maintain at all times to achieve the stipulated standards as per Annexure-I & also maintain regular log-books/operation records.

9. There shall not be any increase in generation of Domestic sewage due to proposed expansion.

10. There shall be no bypass or discharge of effluents either within or outside the factory premises under any circumstances.

11. There shall not be any discharge of untreated trade/domestic sewage inside/outside the industry premises.

12. The applicant shall explore the possibility of reducing freshwater consumption & adopt recycling/ reuse.

III. AIR POLLUTION CONTROL:

1. The type of emissions, stack heights and the air pollution control equipment for the air pollution control sources to be installed as specified in **Annexure-II.**

2. The discharge of emissions from the air pollution sources shall pass through the stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under.

3. The stacks shall have port holes and platforms as per the guidelines specified in **Annexure-II** to facilitate monitoring of emissions.

4. The applicant shall upgrade/modify/replace the control equipments if they are found inadequate to meet the standards stipulated with prior permission of the Board shall be obtained for the same.

5. There shall not be any other sources of air pollution from the proposed expansion.

6. If there is going to be any new air pollution sources in future, the project authorities shall apply and obtain consent for establishment for the same from the Board.

7. Any fugitive emission has to be controlled to meet the ambient air quality standards.

IV. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall collect, treat and dispose off all solid waste generated during construction i.e. Muck, and Garbage after construction if any in such manner so as not to cause environmental pollution.

2. The details of solid waste generated from the expansion activity shall be as follows

V. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDRY MOVEMENT) RULES 2016:

1. The industry shall apply and obtain authorization under Hazardous and Other Wastes (Management & Transboundry Movement) Rules 2016, and comply with the conditions of the authorization. The applicant shall apply for authorization along with the consent for operation (CFO) application under the Rules in Form-I to obtain authorization and comply with conditions.

2. There shall not be any Hazardous Waste generation from the proposed expansion project.

VI. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.

b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.

c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.

d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

* dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

* A "decibel" is a unit in which noise is measured.

* "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

* Leq: It is an energy mean of the noise level over a specified period.

VII. GENERAL CONDITIONS:

1. The applicant shall obtain prior permission from the competent authority for drawing of water from Surface/Ground water source and submit a copy of the same to the Board.

2. The applicant shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.

3. The applicant shall not commission the proposed plant for trial or regular production unless necessary pollution control measures are installed as specified in this Consent Order.

4. The applicant shall ensure that the treatment plant and control equipments are completed and commissioned simultaneously along with construction of the factory and erection of machineries.

5. The applicant shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/emissions and (d) install/replace/alter the water or air pollution control equipments without the prior approval of the Board.

6. The applicant shall immediately report to the Board of any accident or unforeseen act or event resulting in releas of discharge of effluents or emissions or solid wastes etc. in excess of the standards stipulated. And the industry shall immediately take appropriate corrective and preventive actions under intimation.

7. The applicant is liable to reinstate or restore, damaged or destroyed elements of environment at his cost, failing which, the applicant/occupier as the case may be shall be liable to pay the entire cost of remediation or restoration in advance an amount equal to the cost estimated by Competent Agency or Committee.

8. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.

9. This CFE does not give any right to the Party/Project Authority/Industry to forego any *other* legal requirement that is necessary for setting/operation of the plant.

10. The applicant shall furnish point wise compliance to the conditions given under this consent for establishment within 30 days.

11. The applicant shall take measures to develop green belt all along the periphery of the factory premises.

12. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court

13. The applicant shall comply with all the Conditions and guidelines issued by the Board from time to time.

Please note that this is only consent for establishment issued to you to proceed with the formalities for expansion of the industry and does not give any right to proceed trial/regular production. For this purpose, separate consents of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 120 days in advance of commissioning for trial production of the plant.

The receipt of this letter may please be acknowledged.

Consent Fee paid	: Rs. 2490000

NOTE:

The Conditions No. II(2) mentioned above are not applicable.

FOR AND ON BEHALF OF
KARNATAKA STATE POLLUTION CONTROL BOARD

MEMBER SECRETARY - CHIEF/SENIOR ENVIRONMENTAL OFFICER

Encl.: Annexure-I & II.

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office Bengaluru Byatarayanapura for information and necessary action.

1. Master copy (Dispatch).
2. Office copy.

Chim.No.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed,in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	D.G. Sets	1500 KVA x 1 no (proposed)	30	PM,SO2,NOx,CO, NMHC	710,150,0,75,100	DIE	AEC	

Additional Conditions:

1. Condition No. II(2) are not applicable.
2. The project authorities shall strictly comply with the conditions stipulated in this consent order and additional conditions attached to this order containing pages 1 to 12.

2	D.G. Sets	9 Nos of 2250 KVA (Propose d)	30	PM,SO2,NOx,C O, NMHC	710,150,0,75,1 00	DIE	AEC,PRT	
3	D.G. Sets	2 Nos of 2000 KVA (existing)	30	PM,SO2,NOx,C O, NMHC	710,150,0,75,1 00	DIE	AEC,PRT	At all times
4	D.G. Sets	122 nos of 1500 KVA (CFEobt ained)	30	PM,SO2,NOx,C O, NMHC	710,150,0,75,1 00	DIE	AEC	Before Commissioning
5	D.G. Sets	2000 KVA x 43 nos (propose d under CFE-expansio n) shall be provided with individual chimney s of 7m ARL or 30m AGL whicheve r is higher & acoustic enclosur es	30	PM,SO2,NOx,C O, NMHC	710,150,0,75,1 00	DIE	AEC,PRT	At all times
6	D.G. Sets	4 NOS OF 750 KVA (CFE obtained)	30	PM,SO2,NOx,C O, NMHC	0,0,0,75,100	DIE	AEC,PRT	
7	D.G. Sets	7 NOS OF 1010 KVA (CFE obtained)	30	PM,SO2,NOx,C O, NMHC	710,150,0,75,1 00	DIE	AEC,PRT	
8	D.G. Sets	1 NO's of 135 KVA (CFE obtained)	30	PM,SO2,NOx,C O, NMHC	0,0,0,0,0	DIE	AEC,PRT	
9	D.G. Sets	39 NOS OF 2000 KVA (CFE obtained)	30	PM,SO2,NOx,C O, NMHC	710,150,0,75,1 00	DIE	AEC,PRT	

Note:

AEC : Accoustic Enclosures

AEC,PRT : Accoustic Enclosures

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all Chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to at least eight times the stack or duct diameter downstream from any flow disturbance such as bend, expansion, contraction and visible flame. Further, the selected port has to be at least 2 stack/duct diameter before stack/duct exit or from any other flow disturbance. For rectangular stacks, an equivalent diameter can be calculated using following expression.

$$\text{Equivalent Diameter} = \frac{2\,(\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 100mm dia".Arrangements should be made so that the porthole is closed firmly during the non sampling period.

3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point off 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.

4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

Signature valid
Digitally signed by
Date: 2026.05.06 16:53:26 +05:30

Additional Conditions

In addition to the Consent for Establishment (Expansion) issued by the Board in electronic format under Section (25) of the Water (Prevention & Control of Pollution) Act, 1974 and Section (21) of the Air (Prevention and Control of Pollution) Act, 1981 and the Rules & Orders made there under, to **Authorized Signatory, M/s. Manyata Promoters Pvt Ltd.,** for modification & expansion of **IT/ITES park, Offices, Commercial. Retail, Hotels & Banquet Hall** with increase of BUA **29,37,517 sqm (existing-28,76,516 sqm + proposed-61,001 sqm) for** installation of proposed STP of capacity **14,115 (existing-13,060 +proposed 1,055) & for installation of DG sets of 213 no's of DG sets (reduced by 3 no's) Proposed 1500 KVA x 1 no & 2250 KVA x 9 no's** in the commercial development project proposed to come up at **Sy. No. 17P, 18/1, 18/2, 18/3…..(Survey numbers are as per Annexure-1, which is enclosed) of Rachenalli & Thanisandra Villages of K R Puram Hobli, Bangalore East Taluk & Nagawara Village of Kasaba Hobli, Bangalore North Taluk, Bangalore Urban District Outer Ring Road, Nagawara, Bangalore-560045** and shall comply with following additional conditions.

References:

1. CFEexp application submitted at Regional Office, **Yelahanka** with PCB Id: **106730,** dated **21.01.2026 & 23.02.2026.**
2. Inspection of the unit by RO- **Yelahanka vide no. 1420 on 04.03.2026** and CFEexp Application forwarded to Board Office on **06.03.2026.**
3. **1st SLEC** Meeting held on **08.04.2026** & its Proceedings dtd: **09.04.2026.**.

*****

A. Environmental Aspects and its Management During the Course of Construction:

1. This Consent for Establishment is issued from pollution control point of view without prejudice to any case pending in any court of law.
2. The validity of this CFE is coterminous with validity of the expansion of Environmental Clearance vide No. **SEIAA 201 CON 2025, dated: 08.11.2022.** Conditions of Environmental Clearance shall be completely complied with.
3. Any changes to the consent issued, necessary amendment in the consent shall be obtained in accordance with the approval under EIA Notification, 2006.
4. Services such as water supply, sanitation and sewage treatment shall be arranged at the construction site as well as the workforce colony and same shall be maintained without any adverse impact to the environment. Such treated sewage shall be used for the curing non load bearing structures, dust suppression and such allied activities as usage of fresh water for construction activity is banned as per Government Order No: FEE 188 ENV 2003, dated 14.08.2003.

B. Water Consumption:

1. The water consumption for the Said project after this expansion cum modification shall not exceed from **total 14,580 (existing-13,457+ proposed 1,123).** The source of water shall be **BWSSB, Bore well & Rain water collection sump.** The applicant shall obtain No Objection Certificate (NOC) issued by KGWA within 3 Months in respect of abstraction of Groundwater from the existing or proposed borewells. If the water is proposed to be procured through tankers also the copy of the NOCs obtained by the supplier from KGWA shall be furnished.

Senior Environmental Officer (A/c)
Infrastructure & Lake Development
Senior Environmental Officer
Karnataka State Pollution Control Board
Bengaluru - 560 001.

C. Water Pollution Control:

The total quantity of sewage from the project after this expansion cum modification shall not exceed from **total 12,763 (existing-11,752 + proposed 1,011),** and shall be treated in the sewage treatment plants of total capacity shall not exceed from total **14,115 (existing-13,060 +proposed 1,055)** to with the treatment scheme submitted along with the application in order to meet the standards stipulated below before utilizing the same for secondary urban reuse such as landscape, gardening, toilet flushing, fire protection and heating ventilation and air conditioning. STP shall be constructed on modular basis to cater to phase-wise development if required.

Sl. No	Parameter	Prescribed Standards	Sl. No	Parameter	Prescribed Standards
01.	pH	6.5 – 9.0	05.	NH_4-N (mg/l)	Not more than 5
02.	BOD_3 at 27°C (mg/l)	Not more than 10	06.	N-Total (mg/l)	Not more than 10
03.	COD (mg/l)	Not more than 50	07.	Fecal Coliform (MPN/100 ml).	Less than 100
04.	TSS (mg/l)	Not more than 20			

2. All the treatment units shall be made impervious and if they do not achieve the standards stipulated above or if it is found to be inadequate, the applicant shall have to modify the units or upgrade the STP with prior consent of the Board, in order to attain standard stipulated.
3. The applicant shall make provisions for dual piping system to use the treated sewage effluent for toilet flushing, gardening and other secondary purposes. If the treated sewage is used for car or basement or floor wash, a separate treatment unit shall be provided in the STP chain for removal of oil and grease.
4. Separate energy meter and flow meter shall be provided to STPs with log records maintained in a register.
5. Applicant shall add appropriate disinfectant to treated sewage to ensure residual chlorine preferably in the range of 1 mg/l. to 3 mg/l.
6. **DANGER** sign board near the STP shall be installed to maintain safety of the personnel involved in its operation and maintenance. Proper signage shall be displayed in both Kannada and English languages near the taps that discharge treated sewage as non potable water. Access to STPs shall be given to authorized persons only with issue of necessary permits.
7. The applicant shall make use of the Mechanical Cleaning Equipment's to clean the STPs, instead of resorting to manual cleaning by contacting the Urban Local Body or any other authorized private agency in this regard in order to make use of Sucking & Jetting Machines. Necessary protective equipment's, safety gadgets, lifesaving oxygen supply shall be made available at the STP at all times. Precaution shall be taken to avoid any personnel coming in contact with Methane Gas if generated. Necessary protective equipment with prescribed calibration shall be made available at all times.
8. In event of breakdown of regular power supply alternate source such as a captive diesel generator set to run and operate the essential units of sewage treatment plant shall be provided.
9. The services of qualified Environmental Engineer or Scientist shall be availed for the management of environmental aspects such as STP operation & cleaning, municipal solid waste management, domestic hazardous waste management, etc. The STP operators shall be trained & certified by a reputed organization such as Environmental Management Policy Research Institute. The STP shall be located 30 m away from the periphery of the Water

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Bodies such as lakes, tanks etc., and 50m, 25m, 15m away from the central line of the primary, secondary, Tertiary Rajakaluve respectively.

10. **The applicant shall install Online Continuous Effluent Monitoring System (OCEMS) at the outlet of Sewage Treatment Plant (STP) to ensure the compliance of treated sewage quality to meet the stipulated standards before commissioning of Sewage Treatment Plant(STP) at the time of Consent for Operation(CFO) & shall connect to the KSPCB server.**

D. Air Pollution Control:

1. The rate of emissions discharged and the tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure.
   The applicant shall monitor the emission levels as per the frequency schedule indicated in the **Table-1.**
2. **All diesel generators sets above the capacity of 125 KVA shall be fixed with a retrofitting emission control device having a minimum specified particulate matter capturing efficiency of at least 70% as per Board Office Addendum Notification No. 1073, dated: 12.06.2024 which in turn is as per directions of the honorable NGT in matters related to OA 681/ 2018, order dated 06.08.2019. Any installation of additional air pollution sources shall be done with prior permission of the Board.**
3. The applicant shall deploy suitable dust control measure to suppress the dust generated during the construction activity of the project using minimal quantity of water.

E. Solid Waste Management:

1. The applicant shall earmark suitable sufficient place in the project premises to create facility for management of municipal solid waste. The facility shall consist of dry waste collection center, material recovery facility for plastic, cardboard paper, glass, bottles & jars, metals cans & cartons etc., along with composting arrangement by way of natural process or organic waste conversion facility for treatment of organic waste generated.
2. The applicant shall provide a separate waste processing yard of sufficient capacity with separate compartments for collection and safe storage of E-wastes, Biomedical wastes, Hazardous and others wastes, plastic wastes separately till disposal of the same to the authorized/registered waste handling facilities.
3. Biomedical waste shall be handled & disposed as per the provisions of Biomedical Waste Management Rules, 2016.
4. Used sanitary napkins shall be stored and disposed scientifically as per prevailing law.
5. Plastic waste shall be handled & disposed as per provisions of Plastic Waste Management (Amendment) Rules, 2021.
6. E waste shall be managed & disposed as per E-Waste (Management) Rules, 2022.
7. Battery waste shall be managed & disposed as per Battery Waste Management, Rules 2022.

F. Construction & Demolition Waste:

1. The applicant shall strictly follow Construction & Demolition Waste Management Rules published by Ministry of Environment, Forest and Climate Change, New Delhi on 29.03.2016.
2. The applicant shall collect and hand over the wastes generated only to the KSPCB Authorized C & D waste processing facility without causing environmental pollution, ensuring it free from plastics and other organic matter.

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Infrastructure & Lake Development
Senior Environmental Officer
Karnataka State Pollution Control Board
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3. Records pertaining to generation, transportation of C&D waste, including vehicle numbers, invoices/payment receipts, shall be maintained and furnished to the Board once in 03 months. In case there is no such waste generated or transported **'Nil'** returns with signature of the authorized persons shall be furnished.
4. At no instances the waste shall be disposed illegally by dumping in valley, lakes or any other places directly or indirectly through the transporter. The generator will be held responsible to proceed with legal action for such violations even if the disposal is carried out by the transporter.
5. The applicant shall explore to use sand derived from crushed C& D waste as an alternative instead of using river sand for construction.
6. The trucks entering and exiting the construction site shall be subject to "wheel and trucks bottom washing" with a permanent arrangement and to reuse the waste water again.
7. The data on the management of C&D waste as per CPCB guidelines of March 2017 shall be furnished.

G. Health & Safety:

1. The applicant shall provide all necessary personal protective equipment &healthcare facilities to workers as per the prevailing policies of the competent authorities.
2. Used sanitary napkins, tampons and such allied materials shall be packed separately and handed over to the civic authorities for the safe disposal.

H. General:

1. Applicant shall install Rain Water Harvest System to reduce draft on fresh water along with providing Percolation Pits to augment ground water table. The details with drawings shall be furnished within a month.
2. The applicant shall explore separation of sullage and sewage and make separate proposal for treatment & utilization for secondary proposes other than drinking usage.
3. The proposed project site is surrounded by the following activities

Towards North	Site Access Road	Towards East	Elements Mall
Towards South	National Highway (NH - 44)	Towards west	Kensri School

1. Used oil, oil soaked waste, oil filters generated from servicing the diesel generators shall be disposed to KSPCB authorized handlers.
2. Greenery of shrubs flowering and foliage trees shall be created in the project premises as much as practicably possible.
3. The applicant shall not change or alter the project profile without the prior approval of the Board.
4. The applicant is liable to reinstate or restore, damaged or destroyed elements of environment at their cost, failing which, the applicant or occupier as the case may be shall be liable to pay the entire cost of remediation or restoration and pay in advance an amount equal cost estimated by Competent Agency or Committee. In case of the any complaint the applicant shall stop the construction activity and shall take appropriate measures before resuming construction activity with due information to the Board.
5. The applicant shall take all necessary steps to keep the storm water drains within the project premises clean by keeping the top open along with de silting of the same periodically so as to keep it clean aiding smooth flow of water in it.
6. The applicant shall earmark buffer distance as per the bylaws of the local planning authority.

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Infrastructure & Lake Development
Senior Environmental Officer
Karnataka State Pollution Control Board
Bengaluru - 560 001.

7. The CFE does not give any right to the applicant to forego any legal requirement which is necessary for setting up or operation of the project.
8. The applicant shall submit Half Yearly Consent Conditions Compliance Report to the Regional & Board Office as per schedule mentioned here in – April to September months to be submitted before 31st December, while October to March to be submitted before 30th June.
9. The Board reserves the right to withdraw the consent if non compliances to conditions stipulated are observed.
10. The applicant shall impart awareness on Environmental matters across the township and school, through electronic media installed at vantage places.
11. The applicant shall create awareness on environmental issues and Ozone Depleting Substances and educate about Ozone layer and its importance and ban use of ODS in the premises.
12. The applicant shall switchover to cleaner fuel such as CNG or LNG as soon as the supply skid is available in the area
13. The applicant shall adopt the principles listed in the Mission Life – Lifestyle for Environment List of Actions enlisted on the URL, https://moef.gov.in/en/mission-life/list-of-actions/, towards an environmentally conscious lifestyle and shall impart training to inmates on the same.
14. The applicant shall obtain all other statutory permissions/clearances under all such Acts whichever is applicable. This consent does not prevent operation of any other law in force.
    Failing to comply with any such provisions will attract penal actions from such Acts. The applicant shall solely be responsible for such Acts. This consent shall not be used to circumvent any other statutory provisions
15. The applicant shall earmark buffer distance as per the bylaws of the local planning authority
16. The applicant shall strictly adhere to siting guidelines for infrastructure projects vide Government of Karnataka Notification No. FEE 106 EPC 2021 (i) dated 10-12-2021 which is published in Karnataka Gazette dated 20-12-2021.
17. The Buffer Zone shall be treated as "No Construction Zone" and shall be used only for green belt development.

Please note that separate consent for operation of the Board for discharge of sewage shall be obtained by remitting prescribed consent fee. The application for Consent has to be made 120 days in advance so as to make necessary inspection of the project to ascertain the pollution control measures provided. Issue of Consent will be considered only after complete installation of all the pollution control measures and its satisfactory testing. The receipt of CFE may please be acknowledged.

For and on behalf of KSPCB

Senior Environmental Officer (A/c)
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Senior Environmental Officer
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Table –1

Sl. No.	Source of Air Pollution	Requisite Air Pollution Control	Emission Constituents to be controlled	Tolerance Limits
1 to 10	**1500 KVA x 1 no & 2250 KVA x 9 no's (Proposed)**	**Refer Note 1 below and same shall be in working condition at all times of Operation of the Air Pollution Source**	**NO_x * NMHC** PM *** CO ******	**710 150 75 100**

Note 1: Individual Chimney height of 7 m ARL or 30 AGL of the building housing the DG or 30m AGL whichever is higher, along with good quality Acoustic Enclosure having minimum Insertion Loss of 25 dB(A)

Note 2: AGL: Above Ground Level: ARL: Above Roof Level

Note 3: The noise levels shall not exceed 65 dB (A) leq. and 55 dB(A) leq. during day time and night time respectively.

Note 4:

* (as NO_2) (at 15% O_2) dry basis in ppmv

** (as C) (at 15% O_2), mg/Nm3

*** (at 15% O_2), mg/Nm3

**** (at 15% O_2), mg/Nm3

For and on behalf of KSPCB

Senior Environmental Officer (A/c)
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Annexure – I

survey numbers wise extent

KIADB Land		
Rachenahalli Village, K R Puram Hobli		
Bengaluru East Taluk, Bengaluru Dist.		
Sl.No.	Sy.No.	Total Extent
		Acres - Gunta
1	17 P	00-26
2	17 P	03-03
3	18/1	00-30
4	18/2	00-15
5	18/3	00-27
6	18/4	00-03
7	18/5	00-03
8	18/6	01-19
9	18/7	00-06
10	18/8	00-06
11	18/9	01-06
12	19/1	00-36
13	19/2	00-15
14	19/3	00-12
15	19/4	00-38
16	19/5	00-07
17	20/1	01-19
18	20/2	02-13
19	20/3	00-30
20	20/4	04-15
21	21	01-12
22	22/1	03-29
23	22/2	01-34
24	23/1	01-18
25	23/2	01-01
26	24	00-14
27	25/1 P	00-16
28	26 P	01-29
29	27/1	00-32
30	27/2	01-06
31	27/3	00-14
32	27/4	00-14
33	27/5	00-14
34	27/6	00-27
35	27/7	00-08
36	27/8	00-09
37	27/9	00-09

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38	28/1 P	00-23
39	28/2A	00-21
40	28/2B	00-16
41	28/3 P	01-17
42	28/5	00-06
43	28/6	00-07
44	29/2	01-14
45	29/3 P	00-24
46	35/3B	00-18
47	35/3C	00-11
48	36/1 P	00-17
49	36/2 P	00-02 1/2
50	36/3	00-12
51	36/4 P	00-14
52	36/5	00-26
53	36/6 P	00-09
54	36/7 P	00-12
	TOTAL	**44-24.50**
Nagawara Village, Kasaba Hobli		
Bengaluru North Taluk, Bengaluru Dist.		
1	78/1	00-04
2	81/8 P	00-12
3	82/1	00-08
4	82/1 P	00-25
5	83/1	02-02
6	83/2	00-19
7	83/3A	00-29
8	83/3B	00-38
9	83/4	01-39
10	84/P	02-04
11	85/1	00-22
12	85/2	01-36
13	85/3	00-03
14	85/4	00-04
15	85/5	00-18
16	85/6	00-19
17	85/7 P	02-22
18	85/9	00-03
19	98	03-32
20	99/1 P	03-08
21	99/2	01-15
22	99/3	01-16
23	100/1	01-29
24	100/2	02-15
25	103/1	0-05

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26	103/2	0-05
27	103/5	01-04
28	103/6	00-29
29	104/1	0-12
30	104/2	0-06
31	104/3	0-07
32	104/4	0-13
33	105/1	00-12
34	105/2	00-23
35	105/3	00-10
36	105/4	01-09
37	106/P	00-15 1/2
38	106/P	00-15 1/2
39	107	1-04
40	108	2-14
41	109	1-04
42	110/1	00-30
43	110/2	00-28
44	110/3	02-27
45	111/1	00-14
46	111/2	00-13
47	111/3	00-12
48	111/4	00-11
49	111/5	00-39
50	111/6	00-37
51	112/1	00-34
52	112/2	01-19
53	112/3	00-35
54	113/1	"
55	113/2	"
56	113/3	03-08
57	114/1	00-26
58	114/2	00-36
59	114/2 P	00-35
60	114/3	00-27
61	114/4	00-10
62	114/5	00-10
63	115/1	02-13
64	115/2	01-07
65	115/3	01-11
66	116/1	00-22
67	116/2A	00-13
68	116/2B	00-12
69	116/3	00-23
70	116/4	00-23
71	116/5	00-23

Manjappa
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72	116 6	00-19
73	117 1	00-16
74	121 1	01-31
75	121 2	00-26
76	122	01-09
77	123 1A	00-18 1 4
78	123 1A P	00-20 3 4
79	123 1B	00-34
80	123 2	00-28
81	124 1	00-20
82	124 2A	00-30
83	124 2B	00-06
84	124 3A	01-04
85	124/3B	00-31
	TOTAL	**75-21**

Thanisandra Village, K R Puram Hobli		
Bengaluru East Taluk, Bengaluru Dist.		
1	57/1	1-11
2	57 2	2-22
3	58 1P	0-32
4	59/1P	0-39
5	58 1P	0-12
6	59 1P	0-12
	TOTAL	**06-08**

	G TOTAL	**126 Acres - 13.50 Guntas**

Non KIADB Land		
Rachenahalli Village, K R Puram Hobli		
Bengaluru East Taluk, Bengaluru Dist.		
Block - N1 Parcel		
Sl No.	**Sy Nos**	**Extent**
		Acres-Gunta
1	30/3	01-00.5
2	31/5	00-16.25
3	32/1	01-02.75
4	32 2	00-19
	Total	**02-38.50**
Block - M3 Parcel		
Sl No.	**Sy Nos**	**Extent**
		Acres-Gunta
1	35 2	00-14
2	35 3A	01-14

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3	37/1	00-24.5
4	39/1	01-13
5	39/2B	01-19
6	40/3	01-16
7	40/6	00-05
	Total	**06-25.50**
Block - N2 Parcel		
Sl No.	**Sy Nos**	**Extent**
		Acres-Gunta
1	8/4	00-18.71
2	8/5	00-26.63
3	31/1	00-06.54
4	31/2	00-07
5	31/3	00-08
6	31/4	00-22.94
7	31/5	00-26.69
8	44/2	00-38.55
9	44/3	02-02.11
10	45/1	01-07
11	45/2	02-05.65
12	46/1	00-05.48
13	46/2	00-04.82
14	46/3	00-07.88
15	47/2B	00-12
	Total	**10-00**
	G TOTAL	**19 Acre - 24 Guntas**
	Grand Total	**145 Acre - 37.50 Guntas**

Senior Environmental Officer
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Bengaluru - 560 001.

ಬೆಸ್ಕಂ

BESCOM

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED
(Wholly owned Government of Karnataka undertaking)

No.: CGM/BMAZ/DGM/AGM-2/F-242/ 10038

Office of the Chief General Manager, Ele.,
(Commercial, Operation & Maintenance),
Bangalore Metropolitan Area Zone,
P.B. No. 5163, K.R. Circle,
Bangalore-560 001.
Date: 6 DEC 2007

M/s. Manyatha Promoters Pvt. Ltd.,
Sy. No: 28/2A, 29/2, 29/3P, Rachenahalli &
Nagawara Villages, K.R. Puram, Kasaba
Hobli, Bangalore

EE(El). [C,O&M], Addl. East Dvn.
Please collect the ISD & MSD etc., before issue of work order, if any

Sir,

Sub: Arranging Power Supply to an extent of **3000 KVA [as per the request of the applicant]** in favour of M/s. Manyatha Promoters Pvt. Ltd., Sy. No: 28/2A, 29/2, 29/3P of Rachenahalli & Nagawara Villages, K.R. Puram, Kasaba Hobli, Bangalore of E-8 Sub-Division, Addl. East Division.

Ref: Ltr. No. GM(C,O&M)/DGM(O)/AGM-1/HT-53/06-07/11013-14 dt: 19.08.06.

****

HT Power supply to an extent of 3000 KVA is hereby sanctioned at the above address, subject to the following conditions:-

01. You have to pay the following amounts at the office of the Asst. Executive Engineer (El), [C,O&M], E-8 Sub-Division, BMAZ, BESCOM, Bangalore / the Executive Engineer (El), [C,O&M], Addl. East Division, BMAZ, BESCOM, Bangalore **(within a period of One Month from the date of this letter failing which the sanction will stand cancelled)** and to submit the payment certificate addressed to this office along with the copy of receipts for according Administrative Approval.

    a. **Initial Security Deposit: Rs.62,70,000/- (Rupees Sixty Two Lakhs Seventy Thousand Only).**

02. The Power Supply will be arranged at **11KV.**

03. You should install the necessary transformer at your end to receive Power and step it down to the required distribution voltage for your installation.

04. You have to carry out the work involved for arranging this power supply at your own cost under self-execution, through a Class-I Electrical contractor as per the estimate approved by the Executive Engineer (Ele.,) [C,O&M], Addl. East Division, BESCOM, Bangalore as detailed here under you should carryout the line extension work, such as:-

- **To provide 2 new independent 11 KV feeders F-11 & F-12 of Bank-1 & 2 of Manyata MUSS by laying 3x400 sq. mm XLPE UG Cable for a distance of about 2 Kms.**
- **To provide conventional type RMU [2OD+1VL] in the consumer premises etc.,**
- To pay 10% of cost of the estimate [i.e., EST Cost - Rs.66,84,200/- Excluding GEI Charges] towards Supervision Charges as indicated below:

I. Rs. 6,68,420/- (Rs. Six Lakhs Sixty Eight Thousand Four Hundred and Twenty Only).

ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ)

ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ (ವಿ) ರವರ ಕಛೇರಿ,
ಬೆವಿಕಂ ಬೆಂ.ಮ.ಕ್ಷೇ. ಉತ್ತರ ವಲಯ,
#8, ನಂದಿದುರ್ಗ ರಸ್ತೆ,
ಬೆನ್‌ಸನ್ ಟೌನ್, ಬೆಂಗಳೂರು-46.
ಇ-ಮೇಲ್: cebmaznorth@gmail.com

ಸಂಖ್ಯೆ: ಮುಇ(ವಿ)/ಬೆಂಉದ/ಅಇ(ವಿ)/ಸಹಾಂ(ವಿ)-2/19-20
ಲಗತ್ತು: 3832-35

ದಿನಾಂಕ: -7 DEC 2019

ಗೆ,
ಮಾನ್ಯತಾ ಪ್ರೊಮೋಟರ್ಸ್ ಪ್ರೈವೆಟ್ ಲಿಮಿಟೆಡ್,
ಸ.ನಂ.78/1, 82/1, 83/1, 83/2, 83/3ಬಿ, 84ಪಿ,
85/1, 85/2, 85/3, 85/4, 85/5, 85/6, 85/7ಪಿ & 85/9
ಕಸಬಾ ಹೋಬಳಿ, ನಾಗವಾರ ಗ್ರಾಮ, ಬೆಂಗಳೂರು.

ಮಾನ್ಯರೇ,

ವಿಷಯ: **ಶಿವಾಜಿನಗರ ವಿಭಾಗದ, E-9 ಉಪವಿಭಾಗ ವ್ಯಾಪ್ತಿಯ ಕಸಬಾ ಹೋಬಳಿ ನಾಗವಾರ ಗ್ರಾಮದ ಸ.ನಂ.78/1, 82/1, 83/1, 83/2, 83/3ಬಿ, 84ಪಿ, 85/1, 85/2, 85/3, 85/4, 85/5, 85/6, 85/7ಪಿ & 85/9 ರಲ್ಲಿ ಮಾನ್ಯತಾ ಪ್ರೊಮೋಟರ್ಸ್ ಪ್ರೈವೆಟ್ ಲಿಮಿಟೆಡ್‌ರವರು ನಿರ್ಮಿಸಲುದ್ದೇಶಿರುವ ಬಹುಮಹಡಿ ವಾಣಿಜ್ಯ ಸಮುಚ್ಚಾಯಕ್ಕೆ 4500 ಕೆವಿಎ ವಿದ್ಯುತ್ ಸಂಪರ್ಕವನ್ನು ಹೆಚ್.ಟಿ ಆಧಾರದ ಮೇಲೆ ನೀಡುವ ಸಂಬಂಧ ಅನುಮೋದನೆ ಕೋರಿ ಸಲ್ಲಿಸಿರುವ ಪ್ರಸ್ತಾವನೆಯ ಕುರಿತು.**

ಉಲ್ಲೇಖ: 1. ಮುಖ್ಯ ಪ್ರಧಾನ ವ್ಯವಸ್ಥಾಪಕರು (ವಿ), ಆಪರೇಷನ್ಸ್, ಬೆವಿಕಂ ರವರ ಪತ್ರ ಸಂಖ್ಯೆ:ಬಿಸಿ-18/ಮುಪ್ರವ್ಯ(ಕಾ)/ಉಪ್ರವ್ಯ-3/ಸಪ್ರವ್ಯ-1/F-533(102)/19-20/8682 ದಿ: 07.12.2019

2. ಹೆಚ್.ಟಿ ಸೂಚನೆ ಪತ್ರ ಸಂಖ್ಯೆ: BESCOM/NC-PWRSA/5903114552ದಿನಾಂಕ: 07.12.2019

ಮೇಲಿನ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, **ಶಿವಾಜಿನಗರ ವಿಭಾಗದ, E-9 ಉಪವಿಭಾಗ ವ್ಯಾಪ್ತಿಯ ಕಸಬಾ ಹೋಬಳಿ ನಾಗವಾರ ಗ್ರಾಮದ ಸ.ನಂ.78/1, 82/1, 83/1, 83/2, 83/3ಬಿ, 84ಪಿ, 85/1, 85/2, 85/3, 85/4, 85/5, 85/6, 85/7ಪಿ & 85/9 ರಲ್ಲಿ ಮಾನ್ಯತಾ ಪ್ರೊಮೋಟರ್ಸ್ ಪ್ರೈವೆಟ್ ಲಿಮಿಟೆಡ್‌ರವರು ನಿರ್ಮಿಸಲುದ್ದೇಶಿರುವ ಬಹುಮಹಡಿ ವಾಣಿಜ್ಯ ಸಮುಚ್ಚಾಯಕ್ಕೆ 4500 ಕೆವಿಎ ವಿದ್ಯುತ್ ಸಂಪರ್ಕವನ್ನು ಹೆಚ್.ಟಿ ಆಧಾರದ ಮೇಲೆ ನೀಡುವ ಸಂಬಂಧ** ಅನುಮೋದನೆ ಕೋರಿ ಸಲ್ಲಿಸಿರುವ ಪ್ರಸ್ತಾವನೆಗೆ ಮುಖ್ಯ ಪ್ರಧಾನ ವ್ಯವಸ್ಥಾಪಕರು (ವಿ), ಆಪರೇಷನ್ಸ್, ಬೆವಿಕಂ ರವರು ಉಲ್ಲೇಖ (1) ರ ಪತ್ರದಲ್ಲಿ ನೀಡಿರುವ ಅನುಮೋದನೆಯಿಂತೆ, ಉಲ್ಲೇಖ-(2) ರಲ್ಲಿ ನೀಡಿರುವ ಹೆಚ್.ಟಿ ವಿದ್ಯುತ್ ಮಂಜೂರಾತಿ ಪತ್ರದಲ್ಲಿ ತಿಳಿಸಿರುವ ಷರತ್ತುಗಳ ಜೊತೆಗೆ ಹೆಚ್ಚುವರಿಯಾಗಿ KERC ಅವಕಾಶಗಳಡಿ ಈ ಕೆಳಕಂಡ ಷರತ್ತುಗಳನ್ನು ವಿಧಿಸಲಾಗಿದೆ. ಈ ಮಂಜೂರಾತಿಯು ಈ ದಿನಾಂಕದಿಂದ 90 ದಿವಸಗಳವರೆಗೆ ಚಾಲ್ತಿಯಲ್ಲಿರುತ್ತದೆ.

1. **ನಿಯತ ವಿದ್ಯುತ್ ಸರಬರಾಜು ವ್ಯವಸ್ಥೆ:**

- ವಿದ್ಯುತ್ ಮಾರ್ಗ: ನೂತನ 11ಕೆ.ವಿ, ಫೀಡರ್ (3X400 ಚ.ಮಿ.ಮೀ ಹೆಚ್.ಟಿ ಭೂಗತ ಕೇಬಲ್)
- ವಿದ್ಯುತ್ ಉಪಕೇಂದ್ರ: ನೂತನ 220/66/11ಕೆ.ವಿ. ಮಾನ್ಯತಾ ಟೆಕ್‌ಪಾರ್ಕ್ ವಿದ್ಯುತ್ ಉಪಕೇಂದ್ರ (4X31.5 ಎಂ.ವಿ.ಎ, ಗರಿಷ್ಟ ಭಾರ 7.0 ಮೆ.ವ್ಯಾಟ್)

ತಾವು ತಮ್ಮ ನೂತನ ಬಹುಮಹಡಿ ವಾಣಿಜ್ಯ ಕಟ್ಟಡಕ್ಕೆ ಒಟ್ಟು 4500 ಕೆ.ವಿ.ಎ ನಿಯತ ವಿದ್ಯುತ್ ಸಂಪರ್ಕ ಪಡೆಯುವ ಸಂಬಂಧ, ಸ್ವಯಂ ಕಾರ್ಯನಿರ್ವಹಣಾ ಯೋಜನೆಯಡಿ 220/66/11 ಕೆ.ವಿ ಮಾನ್ಯತಾ ಟೆಕ್‌ಪಾರ್ಕ್ ವಿದ್ಯುತ್ ಉಪಕೇಂದ್ರದಿಂದ ತಮ್ಮ ಆವರಣದವರೆಗೆ ನೂತನ 11ಕೆವಿ ಫೀಡರ್‌ನ್ನು 3X400 ಚ.ಮಿ.ಮೀ ಹೆಚ್‌ಟಿ ಭೂಗತ ಕೇಬಲ್‌ನೊಂದಿಗೆ IS:1255 ಪ್ರಕಾರ ತಮ್ಮ ಆವರಣದವರೆಗೆ ಸುಮಾರು 2.25 ಕಿ.ಮೀ.ಗಳಷ್ಟು ದೂರ ವಿಸ್ತರಿಸಿಕೊಳ್ಳುವುದು ಹಾಗೂ ಕೇಬಲ್ ಮಾರ್ಗದಲ್ಲಿ ಸೂಕ್ತ ಸಂಖ್ಯೆಯ 11ಕೆವಿ ಇಂಟರ್‌ಪೋಸಿಂಗ್ ಓಡಿಗಳನ್ನು ಅಳವಡಿಸುವುದು.

2. **ಪರ್ಯಾಯ ವಿದ್ಯುತ್ ಸರಬರಾಜು ವ್ಯವಸ್ಥೆ:**

- ವಿದ್ಯುತ್ ಮಾರ್ಗ : ಹಾಲಿ 11 ಕೆ.ವಿ. ಎಫ್-24 ಫೀಡರ್ (3X400 ಚ.ಮಿ.ಮೀ ಹೆಚ್.ಟಿ ಭೂಗತ ಕೇಬಲ್, ಗರಿಷ್ಟ ಭಾರ 1.3 ಮೆ.ವ್ಯಾ)

- ವಿದ್ಯುತ್ ಉಪಕೇಂದ್ರ: 66/11 ಕೆ.ವಿ. ಮಾಸ್ಯತಾ ಟೆಕ್‌ಪಾರ್ಕ್ ವಿದ್ಯುತ್ ಉಪಕೇಂದ್ರ (3X20 ಎಂ.ವಿ.ಎ, ಗರಿಷ್ಟ ಭಾರ: 33.1 ಮೆ.ವ್ಯಾಟ್)

ತಾವು ತಮ್ಮ ನೂತನ ಬಯೊಮಪಡಿ ವಾಣಿಜ್ಯ ಕಟ್ಟಡಕ್ಕೆ ಒಟ್ಟು 4500 ಕೆ.ವಿ.ಎ ಪರ್ಯಾಯ ವಿದ್ಯುತ್ ಸಂಪರ್ಕ ಪಡೆಯುವ ಸಂಬಂಧ, ಸ್ವಯಂಕಾರ್ಯನಿರ್ವಹಣಾ ಯೋಜನೆಯಡಿ 66/11 ಕೆ.ವಿ ಮಾಸ್ಯತಾ ಟೆಕ್‌ಪಾರ್ಕ್ ವಿದ್ಯುತ್ ಉಪಕೇಂದ್ರದಿಂದ ಹಾಲಿ ಹೊರ ಹೊಮ್ಮಿರುವ 11 ಕೆ.ವಿ. ಎಫ್-24 ಫೀಡರ್‌ನ್ನು ಸೂಕ್ತ ಸ್ಥಳದಲ್ಲಿ ಟ್ಯಾಪ್ ಮಾಡಿ ಅಲ್ಲಿಂದ ಮುಂದಕ್ಕೆ ನೂತನ 11ಕೆವಿ ಫೀಡರ್‌ನ್ನು 3X400 ಚ.ಮಿ.ಮೀ ಹೆಚ್.ಟಿ ಭೂಗತ ಕೇಬಲ್‌ನೊಂದಿಗೆ ಸುಮಾರು 0.6 ಕಿ.ಮೀ.ಗಳಷ್ಟು ದೂರ ತಮ್ಮ ಆವರಣದವರೆಗೆ IS:1255 ಪ್ರಕಾರ ವಿಸ್ತರಿಸಿಕೊಳ್ಳುವುದು.

3. ಭಾವಿ ಗ್ರಾಹಕರು ಸ್ವಯಂಕಾರ್ಯನಿರ್ವಹಣಾ ಯೋಜನೆಯಡಿ ನಿಯತ ಹಾಗು ಪರ್ಯಾಯ ವಿದ್ಯುತ್ ಮಾರ್ಗಗಳನ್ನು ಟರ್ಮಿನೆಟ್ ಮಾಡಲು ತಮ್ಮ ಆವರಣದಲ್ಲಿ 3ವೇ ಡಾಸ್ ಆರ್‌ಎಂಯು ಅನ್ನು ಅಳವಡಿಸುವುದು.
4. ಭಾವಿ ಗ್ರಾಹಕರಿಗೆ ಹೆಚ್.ಟಿ ವಿದ್ಯುತ್ ಸಂಪರ್ಕವನ್ನು ಹಾಲಿ ಚಾಲ್ತಿಯಲ್ಲಿರುವ ಈ ಕೆಳಕಂಡ ಕೆಇಆರ್‌ಸಿ ನಿಯಮಾವಳಿಗಳ ಅನ್ವಯ ಕಲ್ಪಿಸುವುದು.
   i. Clause 3.02: Classification of Supply.
   ii. Clause 8: Applicable to HT/EHT installations.
   iii. KERC (Recovery of Expenditure for supply of Electricity) Regulations 2004 with up to date amendments Notified in the Karnataka Gazette dated: 16.12.2004
5. ಭವಿಷ್ಯದ ದಿನಗಳಲ್ಲಿ ಗ್ರಾಹಕರು ಕೋರಬಹುದಾದ ವಿದ್ಯುತ್ ಭಾರವು 7500 ಕೆ.ವಿ.ಎ ಮೀರಿದಲ್ಲಿ, ಕೆ.ಇ.ಆರ್.ಸಿ ನಿಯಾಮಾವಳಿಗಳ ಅನ್ವಯ, ಗ್ರಾಹಕರು 66 ಕೆ.ವಿ ಆಧಾರದ ಮೇಲೆ ವಿದ್ಯುತ್ ಸಂಪರ್ಕವನ್ನು ಪಡೆಯುವುದು.
6. ಮೇಲ್ಕಂಡ ಎಲ್ಲಾ ಕಾಮಗಾರಿಗಳನ್ನು ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಅನುಮತಿ ಪಡೆದ ಪ್ರಥಮ ದರ್ಜೆ ಗುತ್ತಿಗೆದಾರರ ಮುಖೇನ ಬೆ.ವಿ.ಕಂ./ಕ.ವಿ.ಪ್ರ.ನಿ.ನಿ. ಅಧಿಕಾರಿಗಳ ಮೇಲ್ವಿಚಾರಣೆಯಲ್ಲಿ ನಿರ್ವಹಿಸುವುದು.
7. ಉಲ್ಲೇಖ (2) ರ ವಿದ್ಯುತ್ ಅನುಮೋದನೆ ಪತ್ರದಲ್ಲಿ ನಮೂದಿಸಿರುವ ಠೇವಣಿ/ಶುಲ್ಕಗಳನ್ನು ಸ.ಕಾ.ಇ (ವಿ) ಇ-9 ಉಪ-ವಿಭಾಗದಲ್ಲಿ 90 ದಿವಸದ ಒಳಗೆ ಪಾವತಿ ಮಾಡುವುದು ಹಾಗೂ ಡಿ.ಡಿ. ಯನ್ನು ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ) ಇ-9 ಉಪವಿಭಾಗರವರ ಕಛೇರಿಯ ಹೆಸರಿನಲ್ಲಿ ತೆಗೆಯುವುದು.
   ಅ. ಮೇಲ್ವಿಚಾರಣಾ ಶುಲ್ಕ ರೂ. 10,21,541/- (ರೂ. ಹತ್ತು ಲಕ್ಷದ ಇಪ್ಪತ್ತೊಂದು ಸಾವಿರದ ಐದು ನೂರ ನಲವತ್ತೊಂದು ಮಾತ್ರ)
   ಆ. ಜಿ.ಎಸ್.ಟಿ ರೂ.1,83,878/-(ರೂ.ಒಂದು ಲಕ್ಷದ ಎಂಭತ್ತೊರು ಸಾವಿರದ ಎಂಟು ನೂರ ಎಪ್ಪತ್ತೆಂಟು ಮಾತ್ರ)
   (ಮೇಲ್ವಿಚಾರಣಾ ಶುಲ್ಕ ರೂ.10,21,541/- ದ ಮೇಲೆ ಶೇಕಡ 18% ರಂತೆ)
   ಇ. ಯು.ಜಿ ಕೇಬಲ್ ಪರೀಕ್ಷಣಾ ಶುಲ್ಕ ರೂ.20,000X2=40,000/- (ರೂ. ನಾಲವತ್ತು ಸಾವಿರಗಳು ಮಾತ್ರ)
   ಈ. ಆರ್.ಎಂ.ಯು ಪರೀಕ್ಷಣಾ ಶುಲ್ಕ ರೂ. 4080X2= 8,160/- (ರೂ. ಎಂಟು ಸಾವಿರದ ಒಂದು ನೂರ ಅರವತ್ತು ಮಾತ್ರ)
   ಉ. ಜಿ.ಎಸ್.ಟಿ ರೂ. 8,669/- (ಎಂಟು ಸಾವಿರದ ಆರು ನೂರ ಅರವತ್ತೊಂಬತ್ತು ಮಾತ್ರ)
   (ಯು.ಜಿ ಕೇಬಲ್ ಹಾಗೂ ಆರ್.ಎಂ.ಯು ಪರೀಕ್ಷಣಾ ಶುಲ್ಕದ ಮೇಲೆ ಶೇಕಡ 18%)
   ಊ. ಐ.ಎಸ್.ಡಿ ರೂ.1,02,20,000/- (ಒಂದು ಕೋಟಿ ಎರಡು ಲಕ್ಷದ ಇಪ್ಪತ್ತು ಸಾವಿರಗಳು ಮಾತ್ರ)
8. ಉಲ್ಲೇಖ (2) ರ ವಿದ್ಯುತ್ ಅನುಮೋದನೆ ಪತ್ರದಲ್ಲಿ ನಮೂದಿಸಿರುವ ಎಲ್ಲಾ ಷರತ್ತುಗಳನ್ನು ಪಾಲಿಸುವುದು.
9. **ನೀವು ನಿಮ್ಮ ಸ್ಥಾವರಕ್ಕೆ ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರದಿಂದ ಪಡೆದ ಪಾಸ ಯೋಗ್ಯತ ಪ್ರಮಾಣ ಪತ್ರವನ್ನು ಸಲ್ಲಿಸಬೇಕು.**
10. ಸ್ವಯಂ ಕಾರ್ಯಯೋಜನೆಯಡಿ ಕಾಮಗಾರಿಯನ್ನು ಮಂಜೂರಾದ ಅಂದಾಜುಪಟ್ಟಿಯ ಪ್ರಕಾರ ನಿರ್ವಹಿಸುವುದು.
11. ಹೆಚ್ಚಿನ ಮಾಹಿತಿ ಬೇಕಾದಲ್ಲಿ **ಶಿವಾಜಿನಗರ** ವಿಭಾಗದ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ) ಅಥವಾ **E-9** ಉಪ ವಿಭಾಗದ ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ) ಇವರನ್ನು ಸಂಪರ್ಕಿಸತಕ್ಕದ್ದು.

ತಮ್ಮ ವಿಶ್ವಾಸಿ,

ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ (ವಿ),
ಬೆಂ.ವಿ.ಕ್ಷೇ.ವ (ಉತ್ತರ), ಬೆವಿಕಂ

AID 7534818915

11. If you are not desirous of availing the Power Supply, before execution of agreement the amount paid by you towards Initial Security Deposit, Meter Security Deposit, etc., will be refunded on application, after deducting ten percent of the total amount paid by you.

12. The metering equipment to be installed should be conspicuously visible and at the main entrance to the premises preferably with an independent entrance.

13. As per the KERC Amendment-7 dated:26-12-2018 published on official gazette of Karnataka state W.E.F 26.12.2018 the applicant must produce the copy of the "Occupancy Certificate", the approval of his installation by Electrical inspectorate and also "Test and Commissioning certificate" of the equipment's installed as required by the Licensee before commencement of supply electricity or commissioning of installation.

You are requested to contact the jurisdictional **Assistant Executive Engineer (EI)/Executive** Engineer (Ele.,) [C,O&M], **E9 NAGAWARA/SHIVAJINAGAR, BESCOM** for further needful action in the matter.

Yours faithfully

7/12

Chief Engineer

BMAZ NORTH

BESCOM

Account ID : 7534818915

Consumer Name : MANYATA PROMOTERS PRIVATE LIMITED

From:

03-01-06 19:39 P. 001

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BESCOM

Ph : 2225 3176
2235 0803
(Fax) : 2235 5170

Bangalore Electricity Supply Company Limited

(Wholly owned Government of Karnataka Undertaking)

No.: CGM/BMAZ/DGM/AGM-1/F-243/
15846-50

Office of the Chief General Manager,
Ele.,
(Commercial, Operation & Maintenance),
Bangalore Metropolitan Area Zone,
P.B. No. 5163, K.R. Circle,
Bangalore-560 001.
Date: 01/03/06.

Kind attn: Mr. Indranil

M/s. Manyatha Promoters Pvt. Ltd.,
Classic Court, I Floor, 9/1,
Richmond Road,
Bangalore-560 025.

EE(El). C.O&M Addl. East Dvn. Please collect the ISD, MSD, 10% SC, etc., before issue of work order; if any

Sir,

Sub: Arranging two Nos. HT power supply to an extent of (2000 KVA+2000 KVA) under HT2 (b) tariff in favour of M/s. Manyatha promoters Pvt. Ltd., at Sy. Nos. 24, 26 P, 28/3, 28/6 (IBM Block), and Sy. Nos. 116/2 A, 2B, 116/4, 116/3, 85/6, 85/3P, 106P, 111/6, (FIDELITY BLOCK) Rachenahalli, Nagavara Village, K.R. Puram, Kasaba Hobli, Bangalore.

Ref: Letter. No. BESCOM/GM(T)/BC-22/F-704(50)/05-06/ 18321-24 dt.25.02.06 of the General Manager(Tech.), BESCOM, Bangalore.

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HT Power supply to an extent of (2000 KVA + 2000KVA) is hereby sanctioned at the above address, subject to the following conditions:

1. You have to pay the following amounts at O & M E-8 Sub-Division, BESCOM, Bangalore and produce payment certificate to this office for verification and issue of work order.
   a. *Initial Security Deposit: Rs. 41,20,000 x 2 = Rs. 82,40,000/- (Rupees Eighty Two Lakhs Forty Thousand Only).*
   b. *Meter Security Deposit: Rs.68,770 x 2 = Rs. 1,37,540/- (Rupees One Lakh Thirty Seven Thousand Five Hundred And Forty Only).*
   c. Supervision charge - Nil since proposed 66 kV MUSS at the above premises is being commissioned by M/s Manyatha Promoters under self execution.
2. You have to carry out the work involved for arranging this additional Power Supply at your own cost under self-execution, through a Class I Electrical contractor as per the estimate approved by the Executive Engineer, Elec., C,O&M, Additional East Division, BESCOM, Bangalore.

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3. The Power Supply will be arranged at 11KV.

4. You should install the necessary transformer at your end to receive Power and step it down to the required distribution voltage for your installation.

5. You should carryout the line extension work, such as, providing of 2 Nos. of 11 KV feeders with 3x400 sq.mm. HT UG Cable for about 2 kms. with matching breaker, providing RMU of 2OD + 1VL, VCB Type, 11 KV Class of 630 A in each consumers premises, etc., through Class - I Electrical Contractor at your own cost as per the estimate approved by the Competent authority and you have to pay *10% of cost of the estimate towards supervision charges as indicated below :*

   I. Rs. 1,69,270/- (Rupees *One Lakh Sixty Nine Thousand Two Hundred and Seventy Only*) & shall be credited *UNDER ACCOUNT CODE 42.278.*

   II. *Rs.6,81,104/- (Rupees Six Lakhs Eighty One Thousand One Hundred and Four Only)* & shall be credited *UNDER ACCOUNT CODE 23.704.*

6. You should comply with following requirements within a period of three months from the date of this letter failing which the sanction will stand cancelled. These requirements may please be produced to the Executive Engineer, Elec., C/O&M, Additional East Division, BESCOM, Bangalore.

   a. Executive an agreement in prescribed form.
   b. Produce necessary License/Permit/No Objection Certificate etc., issued by the competent authority as required under statute.
   c. The approval for your installation by Electrical Inspectorate (test and commissioning Certificate) should be produced for servicing of your installation.
   d. Submit the contractors completion-cum test report along with a list in duplicate showing details of machinery, make capacity and the layout plan of your premises within which your intend to use the Power. The capacity of any individual machinery/equipment installed/connected shall not be more than the contract demand.

7. You are liable to pay the tariff minimum charges from the date of commencement of supply (i.e., actual date of availment of Power Supply or expiry of 30 days notice period issued by the BESCOM whichever is earlier) as indicated in the agreement even if you fail to avail Power Supply.

8. You have to install approved shunt capacitors of appropriate capacity so as to maintain the Power factor at not less than 0.9.

9. The Power tariff applicable to your installation will be HT- 2(b)(i) of 2005 tariff or as in force from time to time.

....Contd 3

10. If you are not desirous of availing the Power Supply, the amount paid by you towards Initial Security Deposit, Meter Security Deposit, etc., will be refunded on application, after deducting ten percent of the total amount paid by you.

11. The metering equipment to be installed should be conspicuously visible and at the main entrance to the premises preferably with an independent entrance.

You are requested to contact the General Manager, Ele., Bangalore Circle (South) Executive Engineer, Elec., C,O&M, Additional East Division, BESCOM, Bangalore, for further needful action in the matter.

Yours faithfully,

Chief General Manager, Ele.,
(C,O&M), BMAZ, BESCOM.

Rs. 3787026

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BESCOM

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned Government of Karnataka undertaking)

NO: CEE/BMAZ/SEE(O)/AEE-4/F-115/16-17/6945-48
Encl:

Office Of
The Chief Engineer Ele.,
C,O&M, BMAZ, No. 14/3, 3rd Floor, Maharshi Aravinda Bhavan, Nrupathunga Road,
Bangalore-560 001.

Phone No.22113868
Mobile no.9449045888
Email: cebmaz@bescom.co.in

Date: 25/02/17

To,

M/s Manyatha Promoters Private Ltd.,
Manyatha Embassy Business Park,
Nagavara, Rachenahalli village,
Bengaluru East Taluk,

Sir,

Sub:- Arranging additional power supply to an extent of **1500KVA(exi. 2000KVA, Total 3500 KVA)** to **RR.No. E8HT-77** in favour of the **M/s. Manyatha Promoters Private Ltd.,** Manyatha Embassy Business Park, Nagavara, Rachenahalli village of Bengaluru East Taluk.

Ref:- Ltr No. CGM(OP)/BC-18/F-533/15-16/12436 Dtd: 30.01.2017.

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With reference to the above, as per the approval of Corporate office in the letter cited under ref, approval is hereby accorded for arranging additional power supply to an extent of 1500KVA(exi. 2000KVA, Total 3500 KVA) to RR.No. E8HT-77 in favour of the M/s. Manyatha Promoters Private Ltd., Manyatha Embassy Business Park, Nagavara, Rachenahalli village of Bengaluru East Taluk, Shivajinagar division of E-9 S/d subject to the following conditions:

1. The total load on each 20MVA, 66/11KV transformer shall not exceed 15MW at any point of time (totaling to 3x15=45MW).
2. Power supply is feasible only after commissioning of the proposed 220KV Manyatha sub-station by M/s Manyatha promoters pvt. Ltd.,
3. BESCOM/KPTCL has the authority for shedding load to the applicants premises in case of overloading of existing transmission/distribution network with out any obligations.
4. **Regular source station & feeder details:**
   - Name of the station : Manyatha MUSS
   - Feeder details : New Feeder
5. **Alternate source station & feeder details:**
   - Name of the station : Manyatha MUSS
   - Feeder details : F-14 Feeder
6. You have to pay the following amounts at the O/o Assistant Executive Engineer (Ele.,), C,O&M, E-9 Sub-Division , BESCOM, Bangalore within period of 90 days from the date of this letter failing which the sanction will stand cancelled:
   - **10% Supervision charges is Rs. 6,13,000/- (Rupees Six Lakhs thirteen Thousand Only).**
   - **UG Cable testing charges is Rs.20,000/-(Rupees Twenty Thousand Only)**
   - **RMU testing fees is Rs.4080x3 = Rs.12,240/- (Rupees Twelve Thousand Two Hundred and Forty Only).**
   - **15% Service tax is Rs. 96,786/- (Rupees Ninty Six Thousand Seven Hundred and Eighty Six Only).**
   - **2 MMD charges is Rs. 30,45,000/- (Rupees Thirty Lakhs Forty Five Thousand Only).**

7. If the height of building is 15m and above, you have to obtain the approval of chief electrical inspectorate & Fire extinguishing department.
8. The entire distribution system with the connected equipment's will be taken over by BESCOM after completion of the works.
9. You have to install approved shunt capacitors of appropriate capacity, so as to maintain the power factor at not less than 0.90.
10. Guarantee shall be furnished for a period of not less than one year for the materials used in the works as well as for the quality of the work carried out from the date of taking over of the lines and equipment's by BESCOM.
11. If Dry type LBS/500 KVA /CSS/transformer has been installed under self execution, an under taking shall be furnished that the same shall be maintained by the applicant.
12. Solar water heater of suitable capacity shall be installed.
13. The material for the entire work shall be procured through BESCOM approved vendor & proof of documents shall be verified by the BESCOM inspecting officer at the time of inspection.
14. The materials used shall confirm to BESCOM specifications and shall be dispatched only after inspection & certification from BESCOM.As per KERC/COS/D/07/08 dt: 14.03. 2008 (Page No.-18) the service main cables shall have distinct identity and separation. Metering arrangements shall be at the ground floor only. Power supply to different types of consumers in building/ premises can be arranged through separate VLs having common isolation point. While doing so, the Licensee shall obtain an undertaking from the consumer/ consumers for ensuring safety arising out of providing supply to that premises through different services
15. You should own and install the necessary distribution transformer at your end to receive and step down/step up to the required distribution voltage for your installation.
16. Produce necessary Licensee/permit/no objection certificate , etc. issued by the competent authorities as required under statute.
17. You should produce the approval of competent authority of electrical inspectorate to charge the equipment installed by you.
18. The power tariff applicable to your installation will be HT-2(b) as in force from time to time.
19. If you are not desirous of availing the power supply, the amount paid by you towards initial security deposits only will be refunded on application, after deducting of ten percent of the total amount.
20. The metering equipment to be installed is to be conspicuously visible at the main entrance of the premises preferably with an independent entrance.
21. Other conditions specified in the Addl. clause 3-2-1 of Conditions of Supply of Electricity should be fulfilled.
22. After payment of necessary charges, administrative approval will be issued from this Office.
23. In case if applicant fail to meet any one of the above conditions, the intimation letter is deemed to be cancelled.

<u>Note:</u> Material inspection fee, if applicable, shall be paid at the sub-division office as per CYS-26 Dtd: 27.06.2011 of General Manager (TA&QC)

Yours faithfully,

Chief Engineer Ele.,
(C, O&M), BMAZ, BESCOM.

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BESCOM

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned Government of Karnataka undertaking)

No: CEE/BMAZ/SEE(O)/AEE-3/F-243 \5453-59

Office of
The Chief Engineer Ele.,
C,O&M, BMAZ, No. 14/3, 3rd Floor, Maharshi Aravinda Bhavan, Nrupathunga Road,
Bangalore-560 001.

Date: 04/03/09

M/s. Manyatha Promoters Pvt. Ltd.,
Classic Court, 1st Floor, 9/1, Richmond Road, Bangalore-560025.

EE(El). C,O&M Addl. East Dvn.
Please collect the ISD & 10% SC, etc., before issue of work order, if any

Sir,

Sub: Arranging HT power supply to an extent of 2000 KVA for Block (C-2) on HT2 (b) tariff in favour of M/s. Manyatha Promoters Pvt. Ltd., Sy. No. 17P to 35/5, Rachenahalli, Nagavara Village, K.R. Puram., Kasaba Hobli, Bangalore.

Ref: 1. Ltr. No. BESCOM/BC-47/GM(Ele)/O&M/F-3221/08-09/1776-79 dt: 28.02.09.
2. Letter from Convener, TCCM and SEE(Planning), KPTCL vide Ltr. No. CEE(P&C)/KCO-95/8971/2008-09 dt: 20.02.09.

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Power sanction to an extent of **2000 KVA for Block (C-2)** on HT basis under HT2 (b) tariff is hereby sanctioned in favour of M/s. Manyatha Promoters Pvt. Ltd., Sy. No. 17P to 35/5, Rachenahalli, Nagavara Village, K.R. Puram., Kasaba Hobli, Bangalore as per Corporate Letter vide under ref (1), subject to the following conditions:-

1. You have to pay the following amounts at O & M E-8 Sub-Division, BESCOM, Bangalore (within a period of **One month** from the date of this letter failing which the sanction will stand cancelled).
   - **ISD - Rs. 27,40,000/- (Rupees Twenty Seven Lakhs Forty Thousand only).**
2. The Power Supply will be arranged at 11KV.
3. The power supply will be arranged from the existing 66/11 KV "Manyatha Tech Park sub-station on 11 KV system.
4. M/s. Manyatha Promoters, Pvt. Ltd., has to handover the land to KPTCL for establishing 220 KV station.
5. You should install the necessary transformer at your end to receive Power and step it down to the required distribution voltage for your installation.
6. You have to carry out the work involved for arranging this power supply at your own cost under self-execution, through a Class-I Electrical contractor as per the estimate approved by the Executive Engineer (Ele.,) [C,O&M] **Addl. East Division,** BESCOM, Bangalore as detailed here under you should carryout the line extension work, such as:-

   BLOCK C2:- Sanctioned Load=1500 KVA.
   a) Providing one No. of new 11 KV feeders with matching breaker panel at MUSS.
   b) Providing 2OD + 1 VL VCB type 800A, RMU inside the premises.
   c) Extending 11 KV line by laying 3x400 Sq. mm XLPE UG cable for a distance of about 0.8 Km.
   d) Arranging alternate power supply from C-4 block RMU.
   e) Providing HT metering cubicle of 150/5 A CT's under Service connection.
7. The 11 KV HTUG cable, RMU and cable laying works with other accessories shall be as per BESCOM specification and got inspected through TA & QC, BESCOM.
8. You have to pay 10% of cost of the estimate towards supervision charges as indicated below:-
   - **Rs. 2,64,025/- (Rupees Two Lakhs Sixty Four Thousand Twenty Five Only) towards BESCOM.**

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- **Rs. 76,590/- (Rupees Seventy Six Thousand Five Hundred & Ninety Only)) & shall** be credited at the O/O the Chief Engineer, Transmission Zone, KPTCL, A.R. Circle, Bangalore. (If the estimate revised by KPTCL the difference in S.C. shall be borne by the applicant as per their intimation).

9. Guarantee shall be furnished for a period of not less than one year for the materials used in the works as well as for the quality of the work carried out from the date of taking over of the lines and equipments by BESCOM. The material used shall conform to the BESCOM specifications.
10. These requirements may please be produced to the Executive Engineer, Elec., (C,O&M), Addl. East Division, BESCOM, Bangalore.
    a. Execute an agreement in the prescribed form.
    b. Produce necessary License/Permit/No Objection Certificate etc., issued by the competent authority as required under statute.
    c. The approval for your installation by Electrical Inspectorate (test and commissioning Certificate) should be produced for servicing of your installation.
    d. Submit the contractors completion-cum test report along with a list in duplicate showing details of machinery, make capacity and the layout plan of your premises within which your intend to use the Power. The capacity of any individual machinery/equipment installed/connected shall not be more than the contract demand.
11. You are liable to pay the tariff minimum charges from the date of commencement of supply (i.e., actual date of availing of Power Supply or expiry of 30 days notice period issued by the BESCOM whichever is earlier) as indicated in the agreement even if you fail to avail Power Supply.
12. You have to install approved shunt capacitors of appropriate capacity so as to maintain the Power factor at not less than **0.9**.
13. The Power tariff applicable to your installation will be **HT- 2(b)** tariff or as in force from time to time.
14. If you are not desirous of availing the Power Supply, the amount paid by you towards Initial Security Deposit, Meter Security Deposit, etc., will be refunded on application, after deducting ten percent of the total amount paid by you.
15. Proof of having purchased the materials used for executing the works from the reputed firm will be verified wherever necessary.
16. The metering equipment to be installed should be conspicuously visible and at the main entrance to the premises preferably with an independent entrance.

You are requested to contact the Superintending Engineer Ele., Bangalore Circle (South) Executive Engineer, Elec., C,O&M, Addl. East Division, BESCOM, Bangalore, for further needful action in the matter.

Note: The above 2MMD amount is subject to disposal of High Court writ petition No. WP18215/2007.

Yours faithfully,

Chief Engineer Ele.,
(C,O&M), BMAZ, BESCOM.

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BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned Government of Karnataka undertaking)

No: CEE/BMAZ/SEE(O)/AEE-3/F-243/5460-64

Office of
The Chief Engineer Ele.,
C,O&M, BMAZ, No. 14/3, 3rd Floor, Maharshi Aravinda Bhavan, Nrupathunga Road,
Bangalore-560 001.

Date: 04/03/09

M/s. Manyatha Promoters Pvt. Ltd.,
Classic Court, 1st Floor, 9/1, Richmond Road, Bangalore-560025.

EE(El). C,O&M Addl. East Dvn.
Please collect the ISD & 10% SC, etc., before issue of work order, if any

Sir,

Sub: Arranging HT power supply to an extent of **1500 KVA for Block (C-4)** on HT2 (b) tariff in favour of M/s. Manyatha Promoters Pvt. Ltd., Sy. No. 17P to 35/5, Rachenahalli, Nagavara Village, K.R. Puram., Kasaba Hobli, Bangalore.

Ref: 1. Ltr. No. BESCOM/BC-47/GM(Ele)/O&M/F-3221/08-09/1776-79 dt: 28.02.09.
2. Letter from Convenor, TCCM and SEE(Planning), KPTCL vide Ltr. No. CEE(P&C)/KCO-95/8971/2008-09 dt: 20.02.09.

****

Power sanction to an extent of **1500 KVA for Block (C-4)** on HT basis under HT2 (b) tariff is hereby sanctioned in favour of M/s. Manyatha Promoters Pvt. Ltd., Sy. No. 17P to 35/5, Rachenahalli, Nagavara Village, K.R. Puram., Kasaba Hobli, Bangalore as per Corporate Letter vide under ref (1). Subject to the following conditions:-

1. You have to pay the following amounts at O & M E-8 Sub-Division, BESCOM, Bangalore (within a period of **One month** from the date of this letter failing which the sanction will stand cancelled).
   - **ISD - Rs. 20,55,000/- (Rupees Twenty Lakhs Fifty Five Thousand only).**
2. The Power Supply will be arranged at 11KV.
3. The power supply will be arranged from the existing 66/11 KV "Manyatha Tech Park sub-station on 11 KV system.
4. M/s. Manyatha Promoters, Pvt. Ltd., has to handover the land to KPTCL for establishing 220 KV station.
5. You should install the necessary transformer at your end to receive Power and step it down to the required distribution voltage for your installation.
6. You have to carry out the work involved for arranging this power supply at your own cost under self-execution, through a Class-I Electrical contractor as per the estimate approved by the Executive Engineer (Ele.,) [C,O&M] **Addl. East Division**, BESCOM, Bangalore as detailed here under you should carryout the line extension work, such as:-

   BLOCK C4:- Sanctioned Load=1500 KVA.
   a) Providing one new 11 KV feeder with matching breaker panel at MUSS.
   b) Providing 2OD + 1 VL VCB type 800A, RMU inside the premises.
   c) Extending 11 KV line by laying 3x400 Sq. mm XLPE UG cable for a distance of about 0.8 Km.
   d) Providing HT metering cubicle of 100/5 A CT's under Service connection.
7. The 11 KV HTUG cable, RMU and cable laying works with other accessories shall be as per BESCOM specification and got inspected through TA & QC BESCOM.
8. You have to pay 10% of cost of the estimate towards supervision charges as indicated below:-

- **Rs. 2,64,025/- (Rupees Two Lakhs Sixty Four Thousand Twenty Five Only) towards BESCOM.**

8460-00
9-6-14

.....2

- **Rs. 76,590/- (Rupees Seventy Six Thousand Five Hundred & Ninety Only)** & shall be credited at the O/O the Chief Engineer, Transmission Zone, KPTCL, A.R. Circle, Bangalore. (If the estimate revised by KPTCL the difference in S.C. shall be borne by the applicant as per their intimation).

9. Guarantee shall be furnished for a period of not less than one year for the materials used in the works as well as for the quality of the work carried out from the date of taking over of the lines and equipments by BESCOM. The material used shall conform to the BESCOM specifications.
10. These requirements may please be produced to the Executive Engineer, Elec., (C,O&M), Addl. East Division, BESCOM, Bangalore.
    a. Execute an agreement in the prescribed form.
    b. Produce necessary License/Permit/No Objection Certificate etc., issued by the competent authority as required under statute.
    c. The approval for your installation by Electrical Inspectorate (test and commissioning Certificate) should be produced for servicing of your installation.
    d. Submit the contractors completion-cum test report along with a list in duplicate showing details of machinery, make capacity and the layout plan of your premises within which your intend to use the Power. The capacity of any individual machinery/equipment installed/connected shall not be more than the contract demand.
11. You are liable to pay the tariff minimum charges from the date of commencement of supply (i.e., actual date of availing of Power Supply or expiry of 30 days notice period issued by the BESCOM whichever is earlier) as indicated in the agreement even if you fail to avail Power Supply.
12. You have to install approved shunt capacitors of appropriate capacity so as to maintain the Power factor at not less than **0.9**.
13. The Power tariff applicable to your installation will be **HT- 2(b)** tariff or as in force from time to time.
14. If you are not desirous of availing the Power Supply, the amount paid by you towards Initial Security Deposit, Meter Security Deposit, etc., will be refunded on application, after deducting ten percent of the total amount paid by you.
15. Proof of having purchased the materials used for executing the works from the reputed firm will be verified wherever necessary.
16. The metering equipment to be installed should be conspicuously visible and at the main entrance to the premises preferably with an independent entrance.

You are requested to contact the Superintending Engineer Ele., Bangalore Circle (South) Executive Engineer, Elec., C,O&M, Addl. East Division, BESCOM, Bangalore, for further needful action in the matter.

Note: The above 2MMD amount is subject to disposal of High Court writ petition No. WP18215/2007.

Yours faithfully,

Chief Engineer Ele.,
(C,O&M), BMAZ, BESCOM.

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED
(Wholly owned Government of Karnataka undertaking)

No: CEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/ 3499-503
Encl: 01 File
Ph.No.

Email: ceenz@bescom.co.in
cebmaznorth@gmail.com

Office of the
The Chief Engineer (Ele), (C,O & M)
BMAZ-NORTH, BESCOM,
#8,Nandi Durga Road, Benson Town
Bangalore-560046

Date: 28 JAN 2021

Sub:- Reduction of Contract Demand from **6000KVA to 4000 KVA** to existing HT Installation bearing RR No: **E8HT-37** under **HT2B(i)** tariff in favour of **M/s Manyatha promoters Pvt. Ltd., Manyatha Embassy Business Park, Rachenahalli Village, Nagawara, Bengaluru** in Nagawara-2 O & M Unit of E-9 S/D, Shivajinagar Division, East Circle under self –execution-Reg.

Ref:-
1. Letter No.: SEE/BEC/EE(O)/AEE/20-21/5355-56 Dated: 30.12.2020 of Superintending Engineer (Ele), Bangalore East Circle.
2. T.O. letter No.CEE/BMAZ-N/SEE(O)/AE-2/20-21/3164-63 dated 30.12.2020
3. Letter No.: BC-18/CGM(O)/DGM(Op-3)/AGM-3/F-553(RD-88)/20-21/8296 Dated: 12.01.2021 of CGM(OP),Corporate office,BESCOM,Bengaluru.
4. Letter No. BESCOM/GM(M&C)/BC-24/F-10126/12-13/CYS-78 Dated:12.02.2013

****

Preamble:

M/s Manyatha promoters Pvt. Ltd., Manyatha Embassy Business Park, Rachenahalli Village, Nagawara, Bengaluru have applied for reduction of contract demand from **6000KVA to 4000 KVA** to existing HT installation bearing RR No: **E8HT-37** in **E-9** sub-division of **Shivajinagara** Division under self-execution. Further, the CGM (OP) has accorded an approval for the subject proposal vide letter cited under reference (3)

Hence this order,

OFFICIAL MEMORANDUM

No: CEE/BMAZ-N/SEE(O)/AE-2/20-21/ 3499-503 **Date:** 28 JAN 2021

In accordance with the Clause no.34.02 of conditions of Supply of Electricity of Distribution Licensees in the state of Karnataka and as approved by the CGM (OP) vide letter cited under reference (3), approval is hereby accorded for reduction of contract demand from **6000KVA to 4000 KVA** to existing HT installation bearing RR No: **E8HT-37** in favour of **M/s Manyatha promoters Pvt. Ltd., Manyatha Embassy Business Park, Rachenahalli Village, Nagawara, Bengaluru** in Nagawara-2 O & M Unit of E-9 S/D, Shivajinagar Division, East Circle under self –execution, subject to the following conditions.

1. The consumer shall replace the existing 11KV CTs of ratio, 300/1A Amps 0.2 class accuracy CTs by 200/1A of 0.2 accuracy class, under self-execution.
2. Metering standards shall be as per BESCOM circular cited under reference (4).
3. The power supply to the said installation shall be arranged from the existing transmission and Distribution network.

4. The consumer shall pay the following charges at the O/o of the Assistant Executive Engineer E-9 sub-division.

Sl.no.	Particulars	Amount to be paid
1	Supervision charges @10% on Estimate Cost (of Rs.22,104/-).	Rs.2,211/-
2	GST @18% on Supervision charges.	Rs.398/-

5. The reduction of load is final and will not be revoked at a later date.
6. In case, additional load required at a later stage, the consumer has to apply for fresh Power supply.
7. The reduction of load will be **effective from the next meter reading date following** expiry **of two months from the date of registration** of the application i.e 23.12.2020 by the consumer.
8. The consumer shall pay arrears and audit short claims detected if any, at a later date.
9. The consumer shall enter into a fresh agreement for the revised load after reduction.
10. Refund of excess 2 MMD, if any, shall be in accordance with clause No.34.04 of conditions of supply of electricity.
11. The consumer should give an undertaking to the effect that he will abide by the above conditions.
12. The installation shall be rated by M.T. staff before and after effecting of reduction of load.
13. The details of Reduction load requested are below:-

R.R. No.	**: E8HT-37**
D.O.S	**: 14.06.2006**
Tariff	**: HT2B (i)**
Sanctioned C.D	**: 6000KVA**
Reduction of Load	**: 4000 KVA**
C.D after reduction	**: 2000KVA**

Processing Fee: Rs. 250/- paid vide Rt. No: 599683813518 dated: 23.12.2020.

All other corporate formalities shall be observed as per KERC regulations.

23/12/20

Chief Engineer (Electy), (C, O & M)
BMAZ-North, BESCOM,
Bengaluru.

Copy to:

1. The Superintending Engineer (Ele), Bangalore East Circle, BESCOM, Bengaluru.
2. The Controller of Accounts, BMAZN, BESCOM Bengaluru.
3. The Executive Engineer (Ele.), C, O&M, **Shivajinagar Division**, BESCOM, Bengaluru **along with the file for taking necessary action as per the KERC/BESCOM norms. Further he is directed to prepone withdrawal of excess demand charges if applicable with in 15 days from the date of this letter without fail.**
4. The Assistant Executive Engineer (Ele.), C, O&M, E-9 Sub-Division, BESCOM, Bengaluru.
5. **M/s Manyatha promoters Pvt. Ltd., Manyatha Embassy Business Park, Nagawara, Rachenahalli Village, Bengaluru.**
6. AE-2/MF.

BANGALORE ELECTRICITY SUPPLY COMPAY LIMITED

(Wholly Owned by Government of Karnataka Undertaking)

No. : EEE/AEE/HTR/Prof/MT/BMAZ/

Encl. : Annexure-I

To,

The Assistant Executive Engineer (Elc.)
C, O & M Sub-Division
BMAZ, BESCOM, Bengaluru

BSHT-37
CD: 6000 - 2000
CD = 4000 kVA
CTR: 200/1A
MC: 200000
Tariff: HT2B1

Office of the Executive Engineer (Elc.),
MT Division, BMAZ (South),
537, VSR Sabhangana, Bhavani Nagar,
Gavipuram, Basavanagudi, Bengaluru - 19.
Tel : 080-026605067

Date : 17/02/2021

Sir/Madam,

Sub : Periodical Rating / Additional/Reduction of Load De-Commission Test Report of HT / EHT Installation bearing RR No. BSHT-37 of O&M Unit : BSH

Ref: Your requisition letter no: 1435 dt 17/02/2021

****** Reduction of load

The HT / EHT Installation having the following details has been rated for 1st rating / periodical / additional / reduction of load / complaint / Meter Replacement / De-Commission test on .....

You are requested to take action on the observations and advices recorded in the report enclosed herewith. Compliance report shall be sent to this office regarding the action taken at your end.

1. Details of HT / EHT Installation : **SRTPV : Yes/No TOD: Yes / No ABT: Yes / No**

Name and Address of the Consumer	M/S Manyatha Promoters (P) Ltd Manyatha Embassy Business Park. D, E2 Block, Blr.		
RR No.	BSHT-37	Previously Rated Date	17/8/2021
CD in kVA	4000 kVA	Nature of installation	PT - Office
Connected CTR	200/1A	Tariff	HT2B1
MC (in No. & Words)	200000 - (Twenty thousand only)		
SRTPV IN KWP			

2. Observation & Advice on Technical Matter : As per your above reference the existing HT installation RR No: BSHT-37 having CD 6000 kVA is reduced to 4000 kVA with replacement of existing CTR 300/1A to 200/1A CTR. The billing & check meters are calibrated & found error with in the permissible limit & data shows no events in the meter recordings. The seals CTR/PTs are also tested found ok. Submitted for kindful action if per BESCOM norms.

3. Advice on Revenue Matter :

4. Final & Initial Readings (Applicable for Connected CTR Change / Meter Replacement / De-Commission Test)

billing / check

Existing / Released Meter of Sl. No. : 12352						Existing / Newly Fixed Meter of Sl. No. :	17034652					
With Existing MC:	2	0	0	0	0	-	With Existing / New MC:	2	0	0	0	0	-

	Import	Export		Import	Export
C kWh / B k Wh	1325.44	Final	C kWh	1325.01	Final
C / B k Wh Zone-1	C1 282.33	reading	B k Wh Zone-1	C1 282.1	reading
C / B k Wh Zone-2	C2 467.66	of old	B k Wh Zone-2	C2 467.89	of old
C / B k Wh Zone-3	C3 284.91	CD: 6000	B k Wh Zone-3	C3 284.89	CD: 6000
C / B k Wh Zone-4	C4 410.53	MF: 300	B k Wh Zone-4	C4 410.50	MF: 200
r MD kVA / B MD	0.0441	&	r MD kVA	0.0439	Initial reading
r PF / B / Avg. PF	1.000	Initial	r PF	1.000	of new CD: 4000
Lavanya	1325.31	reading of new CD: 4000 kVA MF: 2000	Lavanya	1325.01	MF: 2000

Yours Faithfully

( )

Assistant Executive Engineer (Elc.)
H.T. Rating, MT Sub-Division,
BMAZ, BESCOM, Bangalore-19

Copy Submitted to :

1. The Executive Engineer (Ele.), MT Division, BMAZ, BESCOM, Bengaluru-19 for kind information :

ANNEXURE-I

BILLING (MAIN) METER CALIBRATION REPORT

RR No.: E8 HT 37 CD: 6000-2000-4000 KVA CTR: 200/1A MC: 20000 Date: 17/02/2021

BILLING/MAIN METER SEALS DETAILS	SEALS FOUND		SEALS LEFT	
PARTICULARS	Lead / P.C.	Plastic/Mfg.	Lead / P.C.	Plastic/Mfg.
Meter Cover	BMB96756	CA30736	BMB91053	C743246
Terminal Cover	BMC03666	—	BMC03670	
MD Reset Button	BMC03667	—	BMC03671	
Test Terminal Block	BMC03668	BMF15205	BMC03672	
Meter Chamber Main Door	—	—	—	
Mtter Reading Window	—	—	—	
CT&PT Chamber	BMB39295	BMF15206	—	
Cable Entery Chamber	4PCS	BMF15207	—	
Hologram	MT-091066	—	MT-091153	
Optical Port	—	—	—	
Modem SIM Card Slot	—	—	—	

BILLING/MAIN METER DETAILS		
PARTICULARS	EXISTING	REPLACED
Make	L&T	L&T
Category/Type	C/B/A	C/B/A
Class	0.2S / 0.5S	0.2S / 0.5S
Voltage	3x63.5V / 110V	3x63.5V / 110V
Amps	1A / 5A	1A / 5A
Pulse	50000	50000
Dial Constant	1	1
Sl. No.	17125278	17103452
Year & Mfd.	Sep-2017	AUG-2017
Wiring Type	3P3W / 3P4W	3P3W / 3P4W
DLMS/TOD/ABT	DLMS/TOD/ABT	DLMS/TOD/ABT
Com.Port Avail.	RS-232/485/OP	RS-232/485/OP

MODEM AND SIM CARD DETAILS

PARTICULARS	EXISTING	REPLACED
Modem Make & Sl. No.	BL0490 4D17EE	
SIM CARD No.	—	

PARAMETERS	EXISTING BILLING / MAIN METER READINGS IMPORT/FORWARD	EXPORT/REVERSE	REPLACED BILLING / MAIN METER READINGS IMPORT/FORWARD	EXPORT/REVERSE
Time & Date	17/02/2021 11:02		17/02/2021 11:28	
r MD kVA/r Avg.PF	0.0441 / 1.0000	Final Readings	0.0439 / 1.0000	Final Readings
Total C kWh	1325.44	of the old	1325.01	of the old
C kWH Zone-1	C1 222.33	CD: 6000 KVA	C1 222.11	CD: 6000 KVA
C kWh Zone-2	C2 467.66	MC: 30000	C2 467.50	MC: 30000
(Wh Zone-3	C3 224.91	&	C3 224.89	&
C KWh Zone-4	C4 410.53	Initial Readings	C4 410.50	Initial Readings
C KVArh (Lag/Lead)	0.17 / 0.427	of the NEW	0.28 / 427.68	of the NEW
C kVAh	1325.31	CD: 4000 KVA	1324.94	CD: 4000 KVA
C MD kVA	—	MC: 20000	—	MC: 20000
Total Billing kWh	B1 1312.89	B2 1290.38	B1 1312.47	B2 1289.96
Billing kWh Zone-1	b11 220.27	b12 216.67	b11 220.05	b12 216.41
Billing kWh Zone-2	b21 463.23	b22 455.30	b21 463.07	b22 455.15
Billing kWh Zone-3	b31 222.84	b32 219.10	b31 222.82	b32 219.08
Billing kWh Zone-4	b41 406.57	b42 399.33	b41 406.51	b42 399.31
Billing kVAh	1312.76		1312.40	
Billing kVA/MD	0.0458		0.0457	
Billing kVA Zone-1	b11 0.0398		b11 0.0397	
Billing kVA Zone-2	b21 0.0458		b21 0.0457	
Billing kVA Zone-3	b31 0.0407		b31 0.0407	
Billing kVA Zone-4	b41 0.0376		b41 0.0374	
Billing Avg. PF	1.000		1.000	
CH kVArH Leg/Led	—		—	
CL kVArh Lag/Lead	—		—	
% THD Voltage	—		—	
% THD Current	—		—	
Anomaly/Diagnose	EC770		EC770	
MD Reset Count	93		99	
Auto/Manual Reset	Auto		Auto	

BILLING / MAIN METER INSTANTANEOUS PARAMETERS

PARTICULARS	CALIBRATOR (for Existing Meter) Before Billing			EXISTING METER			CALIBRATOR (for Replaced Meter) After Billing			REPLACED METER		
Phase Sequence	↻ Forward / ↺ Reverse			↻ Forward / ↺ Reverse			↻ Forward / ↺ Reverse			↻ Forward / ↺ Reverse		
Phase	RØ	YØ	BØ	RØ	YØ	BØ	RØ	YØ	BØ	RØ	YØ	BØ
Voltage	60.32	59.70	60.39	60.38	60.17	60.45	60.37	60.52	60.53	60.41	60.21	60.60
Current	0.222	0.219	0.228	0.224	0.220	0.223	0.251	0.249	0.252	0.245	0.244	0.246
Pr.PF/kW/kVA/kVA	0.99/0.040/0.017/0.040			0.99/0.040/0.017/0.040			0.99/0.045/0.015/0.045			0.93/0.042/0.015/0.045		

PARTICULARS	CURRENT TRANSFORMER EXISTING	CURRENT TRANSFORMER FIXED	POTENTIAL TRANSFORMER EXISTING	POTENTIAL TRANSFORMER FIXED
Make	KALPA	KALPA	KALPA	
Type	—	—	—	
Class	0.2	0.2	0.2	
Insulation	—	—	—	
Burden	2-5VA	2-5VA	25VA	
Ratio Exist.	300/1A	200/1A	6.35KV/63.5V	
Ratio Connt.	300/1A	200/1A	—11—	
Sl. No. RØ	157834/16	336200/20	227854/17	
Sl. No. YØ	157833/15	260120/20	227840/19	
Sl. No. BØ	157835/16	336202/20	227845/17	
	Resin Cast/Oil Filled	Resin Cast/Oil Filled	Resin Cast/Oil Filled	Resin Cast/Oil Filled

METERING CUBICAL DETAILS	
Make :	Existing
Sl. No.	

TRANSFORMER DETAILS	
Make :	
Capacity	Existing
Sl. No.	

CALIBRATION RESULTS FOR BILLING METER

PARAMETER	CALIBRATOR Before Billing	EXISTING	CALIBRATOR After Billing	REPLACED
kW	found within the limit		found within the limit	
kVArch				
%ge Error= [(MRI-CK)/MRI]*100	−0.058%		−0.047%	

( ) Consumer / Representative Signature with Seal

Mallikarjuna

( ) Assistant Engineer (Ele.) M.T. Division, BESCOM Basavanagudi, Bangalore - 19

( ) Assistant Executive Engineer (Ele.) H.T. Rating, Sub-Division, BESCOM Basavanagudi, Bangalore - 19

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

Work Type: Serv Req
Est. Start Date:
Priority:
Required: 23-DEC-20
Task Status: PLANNING
Assigned To: DIVAKARA_GOWDA
Contractor :

Work Order *1608504*

Task *01*

Budget Head :

Execution Method: SELF EXECUTION

Task Desc.: Load Reduction Field Survey. Consumer Class: State Govt - HT2b, VoltageRequirement: 11000-V, Phase: THREE, FA. Info/Comments: OK

Service Req. No: 3399018
Contact: M/S MANYATA EMBASY TECH PARK
Call Back: N
Address:
Suite:
Landmark:
City/State/Zip: BANASAWADI, KAR
Work Phone:
Ext:
Home Phone:
Problem Code/Desc: LDRED-FS - Load Reduction Field Survey
Problem Description: Load Reduction Field Survey. Consumer Class: State Govt - HT2b, VoltageRequirement: 11000-V, Phase: THREE, FA Info/Comments: OK

Asset: M / 10028284708 - Metering Unit Installed on Asset: 5996838677 (SOFTWARE)
Component ID:
Description:
Dept/Area: 150390-NAGAWARA OMU 2

Task Note Type	Notes
NOTES PLACED	Report:-This estimate is prepared for reduction of load from 6000KVA to 4000KVA of Commercial HT Installation to RR No. E8HT37in favor of Manyatha Promoters Pvt. Ltd., Manyatha Embassy Business Park Nagavara, Rachenahalli Village, Bangalore-78 in Nagawara-2 Section Office, E9 Sub-Division. Presently RR No. E8HT125 of Manyatha Promoters Pvt. Ltd., is having a sanctioned load of 6000KVA, for D1 & D2 Block, now the consumer has requested for reduction of load from 6000KVA to 4000KVAsince their usage is not exceeding 4000KVA. . Installation was personally inspected on 22-12-2020 using for commercial purpose and reading was 1283.29Kwh. This installation has a regular source feeding through 3 x 400sq.mm XLPE UG cable from F05 Feeder of 66/11 KV Manyatha Tech Park MUSS which is having a peak load of 82Amps.The provision is made in the estimate for replacement of the existing CTR ratio 300/1A (0.2 Class Accuracy) to the proposed CT ratio 200/1A (0.2 Class Accuracy) to match the reduction of load. All the necessary provisions have been made in the estimate This load remains on F05 Feeder of Bank-I (PL_82Amps) emanating from 66/11KV Manyatha Tech Park MUSS having an installed capacity of 3 x 20MVA and peak load of 1742Amps can take up this load safely.

MATERIALS:

S.NO	Store	Stock Code	Item Description	Rate	Qty.Est	UOM	Amount(INR)	Utility Provided(Y/N)
1	NDS	336338	11 KV CT for 3 phase-3 wire metering | CT-11KV, 125/1A to 200/1A, Burden:2.5VA Accuracy Class 0.2	7368	3	NO	22104	N

Sub Total : 22104

Submitted by: DIVAKARA_GOWDA

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

LABOR

S.NO	Stock Code	Item Description	Rate	Qty.Est	UOM	Amount(INR)	Utility Provided(Y/N)

Sub Total :

OTHER REQUIREMENTS:

Requirement	Item Description	Amount(INR)
S_CONTING	Contingency Charges	
S_EMPLOYEE	Employee Cost	
S_LOCALITY	Locality Allowance @ ¿.% on Labour charges (applicable for areas mentioned in Dept)	0

Sub Total : 0

ATTACHMENTS:

PERMITS:

Type	Number	Acquired Date

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್(ಪ)
ನಾಗವಾರ-2ನೇ ಉಪ-ವಿಭಾಗ ಬಿ.ಎಂ.ಕೆ.ಂ.
ಕೆ.ಬಿ.ಸಿ. ಒಡಾವಣೆ, ನಾಗವಾರ, ಬೆಂಗಳೂರು-೬೨

Assistant Engineer (Ele)
Nagawara-2,C,O&M Unit,
Dasarahalli,Bangalore - 560024

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

SERVICE HISTORY:

Type: FLD REPORT Category: IS-LR-HT

Attribute	Value
Nature of activity*	Industrial
Type of Application	REGULAR
Nature of Business	HT2B-ITMDTRCN
Total Existing CD of Building in KVA*	6000
Case id	0036814063
Existing Account ID's*	5996838000
Sanction Load After Load Enh/Red (In KVA)	4000
Total No. of Floors Existing*	6
Total Floor wise plinth area of existing building in sq.mtr*	20835
Total No. of Floors added or New*	0
Added or New Plinth area in sq.mtr*	0
Total Area of Building in sq.mtr*	20835
Height of the building in mtr*	18
Asset ID of the existing Tapped Pole/RMU*	
Proposed size of the service main proposed in Overhead sq mm	
Proposed size of the service main proposed in UG(sq mm)	
Road cutting permission required by Local authorities	
Name of the sub station*	MANYATHA 66KV MUSS
Power Transformer Capacity in MVA*	20
Peak Load of Station*	1428
Feeder Name*	F-05 MANYATHA DI&D2 BLOCK
Peak Load(amps)*	82
Bank No*	1
Peak Load of the Bank (Amps)*	888
HT Voltage regulation as per NE plan percentage %*	2.25
Connected load of the Feeder in KVA	4000
Proposed Load can be Catered from*	EXST
Existing CT Ratio* R and B phase	
Existing CT Make* R and B phase	
Existing CT Burden* R and B phase	
Existing CT Class* R and B phase	
Existing CT Sr.No * R and B phase	
Proposed CT Ratio* R and B phase	
Is RMU Inspection reqd	
Is UG cable Inspection Reqd	
Is Q&S inspection Reqd	
Any other details	

Type: FLD REPORT Category: LOAD REDUCTION

Attribute	Value
Verification of Reason On Load Reduction*	Y
Is Meter Change Required?*	N
AMR-METER CONSUMER*	Y

24 DEC 2020
08:30 AM

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

Requestor Name: _____ Date: _____

COMPLETION COMMENTS:

Start Date: _____ Time: _____ Completion Date: _____ Time: _____

FAILURE CODES:

Failure: _____ Repair: _____ Component: _____

Follow-up Action Required:

SUMMARY

TASK NO	MATERIAL	LABOR	OTHER REQT	TOTAL
01	22104	0	0	22104
OVERALL TOTAL	22104	0	0	22104

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ಎ)
ಪೂರ್ವ-9ನೇ ಉಪ-ವಿಭಾಗ ಬೆ.ವಿ.ಕಂ.
ಪೆಜ್.ಬಿ.ಆರ್. ಬಡಾವಣೆ ನಾಗಪುರ ಬೆಂಗಳೂರು-45

Assistant Engineer (Ele)
Nagawara-2,C,O&M Unit,
Dasarahalli,Bangalore - 560024

Submitted by: DIVAKARA GOWDA

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

Work Type: Regular
Est. Start Date:
Priority: 0
Required:
Task Status: PLANNING
Assigned To: DIVAKARA_GOWDA
Contractor :

Work Order *1608610*

Task *01*

Budget Head :

Execution Method: SELF EXECUTION

Task Desc.: CREDIT WORK FOR REDUCTION OF LOAD IN FAVOR OF MANYATHA PROMOTERS PVT. LTD NEARING RR NO: E8HT37

Component ID: Description:

Dept/Area: 150390-NAGAWARA OMU 2

Task Note Type	Notes

MATERIALS:

S.NO	Store	Stock Code	Item Description	Rate	Qty.Est	UOM	Amount(INR)	Utility Provided(Y/N)
1	NDS	795500	SCRAP MATERIALS | Iron Items | CTs & PTs	74	5	KG	370	N

Sub Total : 370

LABOR

S.NO	Stock Code	Item Description	Rate	Qty.Est	UOM	Amount(INR)	Utility Provided(Y/N)

Sub Total :

OTHER REQUIREMENTS:

Requirement	Item Description	Amount(INR)

Sub Total :

ATTACHMENTS:

PERMITS:

Type	Number	Acquired Date

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

SERVICE HISTORY:

Type: FLD REPORT   Category: DIS ASSET

Attribute	Value
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

SERVICE HISTORY:

Type: FLD REPORT Category: DIS ASSET

Attribute	Value
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
,et ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
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Asset Description	
Year of Mfg	
Original Cost	
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Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

SERVICE HISTORY:

Type: FLD REPORT Category: DIS ASSET

Attribute	Value
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

SERVICE HISTORY:

Type: FLD REPORT Category: DIS ASSET

Attribute	Value
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
rent Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Asset ID	
Asset Description	
Year of Mfg	
Original Cost	
Current Depreciation Value	
Accumulated Depreciation Value	
Written Down Value	
Status of Asset	
Date	

Requestor Name: _____ Date: _____

PLETION COMMENTS:

Start Date: _____ Time: _____ Completion Date: _____ Time: _____

FAILURE CODES:

Failure: _____ Repair: _____ Component: _____

Follow-up Action Required:

SUMMARY

TASK NO	MATERIAL	LABOR	OTHER REQT	TOTAL
01		0	0	370

Submitted by: DIVAKARA_GOWDA

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

	370			
OVERALL TOTAL	370	0	0	370

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್(ವಿ)
ಪೂರ್ವ9ನೇ ಉಪ-ವಿಭಾಗ ಬೆ.ವಿ.ಕಂ.
ಕೆಚ್.ಬಿ.ಆರ್. ಬಡಾವಣೆ. ನಾಗವಾರ. ಬೆಂಗಳೂರು-45

Assistant Engineer (Ele)
Nagawara-2,C,O&M Unit.
Dasarahalli,Bangalore – 560024

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned by Government of Karnataka Undertaking)

An ISO 9001:2015 Certified Lab

NO: EE/AEE/AE/MT DVN/2020-21/ 3013

Encl: Test report

M/S MANYATHA PROMOTERS PVT LTD

MANYATHA EMBASSY BUSYNESS PARK RACHENAHALLI (V)

NAGAWARA BENGALURU RR NO-E8HT-37

Office of

The Executive Engineer (Ele)

MT Division, BMAZ, BESCOM

Gavipuram, Bangalore

Date: 12-02-2021

Sir,

Subject: Test report of HT CTs.

Reference: 1. your letter no: NILL, Dtd: 10/02/2021

2. Power sanction letter No: CEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/3499-503 Date;28-01-2021

3. CTs Serial No; 336201/20, 336202/20, 336203/20; Ratio; 200/1A,

With reference to the above subject, the above CTs are tested as per IS2705 respectively. Test reports of these CTs are attached with this letter for the below mentioned consumer.

Note: The Test reports confirms only the accuracy of the instrument. All the necessary approvals/field Conditions are to be verified by the concerned officers before commissioning

Yours faithfully,

Executive Engineer (Ele)

MT Division, BESCOM

Gavipuram, Bangalore

Copy to: Assistant Executive Engineer (Ele), MT Lab, MT Division, BESCOM

Bangalore Electricity Supply Company Limite

(Wholly owned by Government of Karnataka Undertaking)
Office of the Executive Engineer, MT Division,
BMAZ, BESCOM

Ref. no : AEE/AE/MTLAB/CT PT/2020-21/1656 Date : 11/02/2021

Current Transformer Test Report

Consumer Details :

M/S MANYATHA PROMOTERS PVT LTD
MANYATHA EMBASSY BUSYNESS PARK RACHENAHALLI
(V)
NNAGAWARA BENGALURU RR NO-E8HT-37

A. Name Plate Details

Make : KALPA

Ratio : Pri : 200 A
Sec : 1 A

Accuracy Class : 0.2

Date of Testing : 11/02/2021

Class : 11kV

CT Sl no/year : 336203-20

Burden : 2.5VA

B.Accuracy Test Results

Percentage of load	% Ratio Error		Phase Angle Error in minutes	
	Max limit as per IS	Results found	Max limit as per IS	Results found
120%	+/- 0.2	-0.117 %	+/- 10	5.45 min
100%	+/- 0.2	-0.120 %	+/- 10	5.74 min
20%	+/- 0.35	-0.148 %	+/- 15	8.75 min
5%	+/- 0.75	-0.208 %	+/- 30	12.82 min

Burden at 100%	
VA	PF
2.487VA	1.000

Test Result (Pass/Fail): Pass

1. The above 11 KV CT tested on 11/02/2021.....and the errors are within the limits of accuracy class
2. The testing fee of Rs...708..... Collected vide receipt no & date 884723579623;.DATE-10-02-2021
3. Power sanction letter no & date .CEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/3499-503 Date;28-01-2021
4. Above CT is to be tested for its IR values at site before commissioning.

Tested by

Assistant Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Approved by

Asst Executive Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Bangalore Electricity Suppiy Company Limite

(Wholly owned by Government of Karnataka Undertaking)
Office of the Executive Engineer, MT Division,
BMAZ, BESCOM

Ref. no : AEE/AE/MTLAB/CT PT/2020-21/1656 Date : 11/02/2021

Current Transformer Test Report

Consumer Details :

M/S MANYATHA PROMOTERS PVT LTD
MANYATHA EMBASSY BUSYNESS PARK RACHENAHALLI
(V)
NNAGAWARA BENGALURU RR NO-E8HT-37

1. Name Plate Details

Make : KALPA

Ratio : Pri : 200 A
Sec : 1 A

Accuracy Class : 0.2

Date of Testing : 11/02/2021
Class : 11kV
CT Sl no/year : 336201-20
Burden : 2.5VA

2.Accuracy Test Results

Percentage of load	% Ratio Error		Phase Angle Error in minutes	
	Max limit as per IS	Results found	Max limit as per IS	Results found
120%	+/- 0.2	-0.130 %	+/- 10	7.23 min
100%	+/- 0.2	-0.132 %	+/- 10	7.49 min
20%	+/- 0.35	-0.151 %	+/- 15	10.71 min
5%	+/- 0.75	-0.221 %	+/- 30	15.93 min

Burden at 100%	
VA	PF
2.488VA	1.000

Test Result (Pass/Fail): Pass

1. The above 11 KV CT tested on 11/02/2021.....and the errors are within the limits of accuracy class
2. The testing fee of Rs...708..... Collected vide receipt no & date 884723579623;.DATE-10-02-2021
3. Power sanction letter no & date .CEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/3499-503.Date;28-01-2021
4. Above CT is to be tested for its IR values at site before commissioning.

Tested by

Assistant Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Approved by

Asst Executive Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Bangalore Electricity Supply Company Limite

(Wholly owned by Government of Karnataka Undertaking)
Office of the Executive Engineer, MT Division,
BMAZ, BESCOM

Ref. no : AEE/AE/MTLAB/CT PT/2020-21/1656 Date : 11/02/2021

Current Transformer Test Report

Consumer Details :

M/S MANYATHA PROMOTERS PVT LTD
MANYATHA EMBASSY BUSYNESS PARK RACHENAHALLI
(V)
NNAGAWARA BENGALURU RR NO-E8HT-37

1. Name Plate Details

Make : KALPA

Ratio : Pri : 200 A
Sec : 1 A

Accuracy Class : 0.2

Date of Testing : 11/02/2021

Class : 11kV

CT Sl no/year : 336202-20

Burden : 2.5VA

2.Accuracy Test Results

Percentage of load	% Ratio Error		Phase Angle Error in minutes	
	Max limit as per IS	Results found	Max limit as per IS	Results found
120%	+/- 0.2	-0.126 %	+/- 10	5.18 min
100%	+/- 0.2	-0.130 %	+/- 10	5.39 min
20%	+/- 0.35	-0.157 %	+/- 15	7.94 min
5%	+/- 0.75	-0.216 %	+/- 30	11.76 min

Burden at 100%	
VA	PF
2.489VA	1.000

Test Result (Pass/Fail): Pass

1. The above 11 KV CT tested on 11/02/2021.....and the errors are within the limits of accuracy class
2. The testing fee of Rs...708..... Collected vide receipt no & date 884723579623;.DATE-10-02-2021
3. Power sanction letter no & date .CEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/3499-503.Date;28-01-2021
4. Above CT is to be tested for its IR values at site before commissioning.

Tested by

Assistant Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Approved by

Asst Executive Engineer (Ele)
MT Lab, BMAZ, Bengaluru

ಬೆಸ್ಕಂ
BESCOM
Ph : 2225 3176
2235 0803
(Fax) : 2235 5170
Bangalore Electricity Supply Company Limited
(Wholly owned Government of Karnataka Undertaking)

No.: CGM/BMAZ/DGM/AGM-3/F-243/ 4323

Office of the Chief General Manager, Ele.,
(Commercial, Operation & Maintenance),
Bangalore Metropolitan Area Zone,
P.B. No. 5163, K.R. Circle,
Bangalore-560 001.
Dt: 13/07/07

M/s Manyatha Promoters(Pvt) Ltd.,
Sy. 17(P) to 36/3, Rachenahalli,
Nagavara Village,
K.R.Puram, Kasaba,
BANGALORE

EE(El). C,O&M. Addl. East Div.

Please collect the ISD etc., if any before issue of work order

Sir,

Sub: [redacted]y on HT basis [redacted] KVA on your installation bearing RR No. E8 HT-37 at the above address.

Ref: 1. T.O Letter No. CGM/BMAZ/ DGM(T)/AGM-1/F-243/3536 and 3533 dt: 25.07.07.
2. Corporate Ltr. No. BESCOM/GM(T)/BC-22/F-1152/07-08/5306-09 dt: 04.07.07.

*****

As per Corporate approval vide ref(2), the Additional Power supply to an extent of **1000 KVA on existing installation bearing RR No. E8 HT - 37 ([redacted] to your premises at the subject address, is hereby sanctioned subject to the following conditions:

1. **As per the report from AEE(Ele.,) C,O&M, E8 Sub-Division, the exiting C.T Ratio of 300/5 can take up this additional load of 1000 KVA and the consumer is exempted for a payment of augmentation charges as per corporate order vide ref(2).**
2. You have to pay the following amounts at O & M E-8 Sub-Division, BESCOM, Bangalore and produce payment certificate to Executive Engineer, Elec., C,O&M, **Addl.East Division, BESCOM**, Bangalore for verification and further action:
3. **Initial Security Deposit (ISD): Rs. 21,50,000/- (Rupees Twenty One Lakhs Fifty Thousand Only).**
4. **Meter Security Deposit (MSD):**
5. You have to carry out the work involved for arranging this additional Power Supply at your own cost under self-execution, through a Class-I Electrical contractor as per the estimate approved by the Executive Engineer, Elec., C,O&M, **Addl.East Division**, BESCOM, Bangalore.
6. The Power Supply will be arranged at 11 KV.
7. You should install the necessary transformer at your end to receive Power and step it down to the required distribution voltage for your installation.
8. You should get the line extension work, if any, through Class – I Electrical Contractor at your own cost as per the estimate approved by the Competent authority and have to pay 10% of cost of the estimate towards supervision charges, applicable if any, as intimated by the Executive Engineer, Ele., C,O&M, **Addl.East Division**, BESCOM, Bangalore.

.....2

9. You should comply with following requirements within a period of One month from the date of this letter failing which the sanction will stand cancelled. These requirements may please be produced to the Executive Engineer, Elec., C,O&M, **Addl.East Division**, BESCOM, Bangalore.
   a. To Executive an agreement in prescribed form.
   b. To Produce necessary License/Permit/No Objection Certificate etc., issued by the competent authority as required under statute.
   c. To Submit the contractors completion-cum test report along with a list in duplicate showing details of machinery, make capacity and the layout plan of your premises within which your intend to use the Power. The capacity of any individual machinery/equipment
   d. Installed /connected Load shall not be more than the contract demand.
   e. The approval for your installation by Electrical Inspectorate (test and commissioning Certificate) should be produced for servicing of your installation.
10. You are liable to pay the tariff minimum charges from the date of commencement of supply (i.e., actual date of availment of Power Supply or expiry of 30 days notice period issued by the BESCOM whichever is earlier) as indicated in the agreement even if you fail to avail Additional Power Supply.
11. You have to install approved shunt capacitors of appropriate capacity so as to maintain the Power factor at not less than **0.9**.
12. The Power tariff applicable to your installation will be **HT- 2(b) of 2005** tariff or as in force from time to time.
13. If you are not desirous of availing the Power Supply, the amount paid by you towards Initial Security Deposit, Meter Security Deposit, etc., will be refunded on application, after deducting ten percent of the total amount paid by you.
14. The metering equipment to be installed should be conspicuously visible and at the main entrance to the premises preferably with an independent entrance.

You are requested to contact the General Manager, Elc., Bangalore Circle (South)/Executive Engineer, Elec., C,O&M, **Addl. East** Division, BESCOM, Bangalore, for further action in the matter.

Yours faithfully,

Chief General Manager, Ele.,
(C,O&M), BMAZ, BESCOM.

②

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Office of the
Executive Engineer (Elec.)
M.T. Division, BMAZ
A.R. Circle, Bangalore-9
Tel : 22208957

E/AEE/HTR( )/MT/BMAZ /

Encl. Annexure I & II

Date : 7.9.2006

No. 787

The Assistant Executive Engineer (Elec.,)
E-8 O&M Sub-Division
BESCOM, Bangalore.

Sir,

Sub : Rating Report of HT/EHT Installation bearing RR No. E-8 H.T-37
Ref. :

* * *

The HT/EHT Installation having the following details has been rated for I rating/periodical/complaint on 7.9.2006.
You are requested to take action on the observations and advises recorded in the report enclosed herewith. Compliance report shall be sent to this office for the action taken at your end.

1. DETAILS OF H.T. INSTALLATION :

a) RR No. E8 H.T-37 | e) Previously rated on —
b) CD 2000+3000=5000 KVA | f) Nature of Industry Soft ware
c) MC 6000 | g) No. of Shifts —
d) Tariff

Name and Address of the Consumer M/S Manyatha Promoters Pvt Ltd clearance Corner Plot of Kora Richmond Road Bl

OBSERVATION & ADVICE ON TECHNICAL MATTER : C.D. of 2000 KVA Existing and additional load sanctioned 3000KVA Vide O.M. No. CGM/BMAZ/DGM/AGM F-241/5604 Dt 9.8.06, the Existing C.T. Ratio 400/5 to 300/5 has been changed, the new CT. Ratio are wired found

3. ADVICE ON REVENUE MATTER : the Accuracy of the C.T. & Meters were conducted found ok the Accuracy of the Meter is within the permissible error

Yours faithfully,

(signature)
Executive Engineer (Elec.)
M.T. Division, BMAZ, BESCOM, BG-9

Copy with compliments to The Executive Engineer (Elec.), C,O & M .... BESCOM, B'lore. for Information
Copy to The Assistant Executive Engineer (Elec.), HT Rating (..........) S/D BESCOM, B'lore. for Information

ANNEXURE I

R.R. No. EB/AG-57 187

OF SEALS :

Seals Provided to	Seals Found		Seals Left	
	Lead (Sl.No.)	Plastic (Sl.No.)	Lead (Sl.No.)	Plastic (Sl.No.)
M C of Meter	B39426	—	Reuse	
TC of meter				
M.D Reset Knob	B39427		B39922	
Optical Port	—		—	
T.T.B.	B39428		B39921	
Meter chamber Main Door	B39431		Reuse	
Meter Reading Window	O&M		—	
C.T. / P.T. Chamber	B39429		B39923	
Cable Entry Chamber	B39430		B39924	
10.				

DETAILS OF THE EQUIPMENTS : Make Dhanlaxmi Sl.No. 021

a) Cubicle Type - Cable Entry / 6 bushing / 3 bushing / LBS + HTMC

b) Cubical Condition & Location Good

c) Supply side G.O.S./RMU (in service / direct / removed) Lightning Arrester - Provided / Not Provided.
Load side isolation - GOS / LBS / CB

3. **DETAILS OF CTS / PTS :**

	CT Existing	CT If Replaced	PT Existing	PT If Replaced
1. Make	Kalpa	Kalpa	Daxon	
2. Type	Re	Re	Re	
3. Class	0.5	0.5	0.5	
4. Insulation level	15/35/95	15/35/95	11/28/95	
5. Burden	3.75VA	3.75VA	50VA	
6. Ratio Available	100-200/5	300/5	11kV/110V	
7. Ratio Connected	200/5	300/5	11kV/110V	
8. Sl. No. 'R' Ph	11773	5669	3536	
'B' Ph	11780	5668	3537	
9. Resin Cast/Oil filled	Re	Re	Re	

4. **DETAILS OF ELECTRONIC TRIVECTOR METER**

	Existing	If Replaced
a. Make	Secure	
b. Type	E350	
c. Class	0.2	
d. Votage	110V	
e. Ampere	5A	
f. Pulse / Unit	16000	
g. Dial / Constant	1	
h. Sl.No. / Year	RRU-00261 / 2004	

No. 781

RR No. E-8 AT-37

ANNEXURE II

MULTIPLYING CONSTANT FOR BILLING : = PT ratio X CT ratio X Dial constant / Meter PT ratio X Meter CT ratio

$\frac{11\,kV}{110} \times 200/5 = 6000$

(A) CALIBRATION DETAILS

	FOR EXISTING METER		IF REPLACED	
	CALIBRATOR	METER	CALIBRATOR	METER
Voltages V1/V3	105/104	105/104		
Currents I1/I3	2.69/2.727	2.62/2.72		
PF/KW/KVA	0.95/0.451/0.189	0.95/0.43/0.182		
Sequence	For/Rev. ✓	—	For/Rev.	

(B) CALIBRATION DATA

	FOR EXISTING METER		IF REPLACED METER	
	Kwh	KVARh	Kwh	KVARh
a) Test Meter Reading	15.0466	4.11278		
b) Reference meter Reading	15.115	4.0999		
c) Percentage error				
d) Voltage measured RY	V	YB V	BR V	
RG	V	YG V	BG V	

6) METER READING

	between change EXISTING	IF REPLACED after change of
a) Time, date, Month, year	A-8888 / 16.44 / 7-9-06	8888 / 18.25 / 7.9.06
(b) Present KVA/PF	UCMVA - 000.634	000.000
(c) Cumulative values	CMD KVA 001.254	001.888
1. Kwh	Bills 000009	000010
2. KVARh lag/lead	CKwh 00469.50	00469.59
KVAh	000.00	00000.00
BILLING VALUES	CKVARh 00154.53	00154.51
(1) Billing Kwh	00000.53	00000.41
(2) Billing PF	CKVAh 00499.11	00499.20
(3) Billing KVA	Hy Kwh 00469.17	00469.59
(4) Billing KVAH	00000.00	00000.00
(5) MD reset count	Hy KVAh 00433.97	00499.20
(6) MD reset Manual / Automatic on	Hy PF 0.914	0.941
(7) CONSUMER EQUIPMENT DETAILS	UHIKVA 000.722	000.634
	RD KVA 000.257	000.000

(a) Transformer make ..... (b) Voltage 11kV/433 V

(c) Current ..... A (d) Capacity 200kVA

(c) Vector Group ..... (f) Sl.No. 15643 / 11.977

(f) DG set Details .....

Assistant Engineer (Elec.)
M.T. Division, BESCOM
A.R. Circle, BG-9

Assistant Executive Engineer (Elec.)
H.T. Rating Sub-Division, BESCOM
A.R. Circle, BG-9

Consumer/Representative
Signature with Seal

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED
(Wholly owned Government of Karnataka undertaking)

BESCOM

No: CEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/ 3463-67
Encl: 01 File
Ph.No.

Email: ceenz@bescom.co.in
cebmaznorth@gmail.com

Office of the
The Chief Engineer (Ele), (C,O & M)
BMAZ-NORTH, BESCOM,
#8,Nandi Durga Road, Benson Town
Bangalore-560046
Date: 28 JAN 2021

Sub:- Reduction of Contract Demand from **3000KVA to 2500 KVA** to existing HT Installation bearing RR No: **E8HT-47** under **HT2B(i)** tariff in favour of **M/s Manyatha promoters Pvt. Ltd., Manyatha Embassy Business Park, Rachenahalli Village, Nagawara, Bengaluru** in Nagawara-2 O & M Unit of E-9 S/D, Shivajinagar Division, East Circle under self –execution-Reg.

Ref:-
1. Letter No.: SEE/BEC/EE(O)/AEE/20-21/5363-64 Dated: 30.12.2020 of Superintending Engineer (Ele), Bangalore East Circle.
2. T.O. letter No.CEE/BMAZ-N/SEE(O)/AE-2/20-21/3164-63 dated 30.12.2020
3. Letter No.: BC-18/CGM(O)/DGM(Op-3)/AGM-3/F-553(RD-92)/20-21/8298 Dated: 12.01.2021 of CGM(OP),Corporate office,BESCOM,Bengaluru.
4. Letter No. BESCOM/GM(M&C)/BC-24/F-10126/12-13/CYS-78 Dated:12.02.2013

****

Preamble:

M/s Manyatha promoters Pvt. Ltd., Manyatha Embassy Business Park, Rachenahalli Village, Nagawara, Bengaluru have applied for reduction of contract demand from 3000KVA to 2500 KVA to existing HT installation bearing RR No: E8HT-47 in E-9 sub-division of Shivajinagara Division under self-execution. Further, the CGM (OP) has accorded an approval for the subject proposal vide letter cited under reference (3)

Hence this order,

OFFICIAL MEMORANDUM

No: CEE/BMAZ-N/SEE(O)/AE-2/20-21/ 3463-67 Date: 28 JAN 2021

In accordance with the Clause no.34.02 of conditions of Supply of Electricity of Distribution Licensees in the state of Karnataka and as approved by the CGM (OP) vide letter cited under reference (3), approval is hereby accorded for reduction of contract demand from 3000KVA to 2500 KVA to existing HT installation bearing RR No: **E8HT-47** in favour of **M/s Manyatha promoters Pvt. Ltd., Manyatha Embassy Business Park, Rachenahalli Village, Nagawara, Bengaluru** in Nagawara-2 O & M Unit of E-9 S/D, Shivajinagar Division, East Circle under self –execution, subject to the following conditions.

1. To retain the existing 11KV CTs.
2. Metering standards shall be as per BESCOM circular cited under reference (4).
3. The power supply to the said installation shall be arranged from the existing transmission and Distribution network.
4. The reduction of load is final and will not be revoked at a later date.

5. In case, additional load required at a later stage, the consumer has to apply for fresh Power supply.
6. The reduction of load will be **effective from the next meter reading date following expiry of two months from the date of registration** of the application i.e 23.12.2020 by the consumer.
7. The consumer shall pay arrears and audit short claims detected if any, at a later date.
8. The consumer shall enter into a fresh agreement for the revised load after reduction.
9. Refund of excess 2 MMD, if any, shall be in accordance with clause No.34.04 of conditions of supply of electricity.
10. The consumer should give an undertaking to the effect that he will abide by the above conditions.
11. The installation shall be rated by M.T. staff before and after effecting of reduction of load.
12. The details of Reduction load requested are below:-

R.R. No.	**: E8HT-47**
D.O.S	**: 30.06.2007**
Tariff	**: HT2B (i)**
Sanctioned C.D	**: 3000KVA**
Reduction of Load	**: 500 KVA**
C.D after reduction	**: 2500KVA**

Processing Fee: Rs. 250/- paid vide Rt. No: 884093877091 dated: 23.12.2020.

All other corporate formalities shall be observed as per KERC regulations.

27/12/21

Chief Engineer (Electy), (C, O & M)
BMAZ-North, BESCOM,
Bengaluru.

Copy to:

1 The Superintending Engineer (Ele), Bangalore East Circle, BESCOM, Bengaluru.
2 The Controller of Accounts, BMAZN, BESCOM Bengaluru.
3 The Executive Engineer (Ele.), C, O&M, Shivajinagar Division, BESCOM, Bengaluru along with **the file for taking necessary action as per the KERC/BESCOM norms. Further he is directed to prepone withdrawal of excess demand charges if applicable with in 15 days from the date of this letter without fail.**
4 The Assistant Executive Engineer (Ele.), C, O&M, E-9 Sub-Division, BESCOM, Bengaluru.
5 **M/s Manyatha promoters Pvt. Ltd., Manyatha Embassy Business Park, Nagawara, Rachenahalli Village, Bengaluru.**
6 AE-2/MF.

ANNEXURE-I

BILLING (MAIN) METER CALIBRATION REPORT

RR No.: E8HT47 CD: 3000-500-2500 KVA CCTR: 125/1A MC: 12500 Date: 16/02/2021

BILLING/MAIN METER SEALS DETAILS

PARTICULARS	SEALS FOUND (Billing)		SEALS LEFT (Checked by)	
	Lead / P.C.	Plastic/Mfg.	Lead / P.C.	Plastic/Mfg.
Meter Cover	BMB66347	T-278133	BMB68325	C029660
Terminal Cover	BMB66362	—	BMB68326	
MD Reset Button	BMB66363	—	BMB68327	
Test Terminal Block	Upcd	BME88087	Upcd	
Meter Chamber Main Door	—	—	—	
Mtter Reading Window	—	—	—	
CT&PT Chamber	BMB68328	BME88088	—	
Cable Entery Chamber	BMB66367	BME88089	—	
Hologram	—	—	—	
Optical Port	—	—	—	
Modem SIM Card Slot	—	—	—	

BILLING/MAIN METER DETAILS

PARTICULARS	EXISTING (Billing)	REPLACED (Checked by)
Make	L&T	L&T
Category/Type	C/B/A	C/B/A
Class	0.2S / 0.5S	0.2S / 0.5S
Voltage	3x63.5V / 110V	3x63.5V / 110V
Amps	1A / 5A	1A / 5A
Pulse	50000	50000
Dial Constant	1	1
Sl. No.	18113084	16101642
Year & Mfd.	JUL-2018	NOV-2016
Wiring Type	3P3W / 3P4W	3P3W / 3P4W
DLMS/TOD/ABT	DLMS/TOD/ABT	DLMS/TOD/ABT
Com.Port Avail.	RS-232/485/OP	RS-232/485/OP

MODEM AND SIM CARD DETAILS

PARTICULARS	EXISTING	REPLACED
Modem Make & Sl. No.	BL07653G18FF	
SIM CARD No.		

EXISTING BILLING / MAIN METER READINGS

PARAMETERS	IMPORT/FORWARD (Billing)	EXPORT/REVERSE
Time & Date	16/02/2021 13:21	Final Readings of the old CD: 3000 KVA MC: 15000. & Final Readings of the NEW CD: 2500 KVA MC: 12500
r MD kVA/r Avg.PF	0.0384/0.9987	
Total C kWh	672.98	
C kWH Zone-1	C1 121.43	
C kWh Zone-2	C2 249.44	
KWh Zone-3	C3 114.87	
C KWh Zone-4	C4 187.23	
C KVArh (Lag/Lead)	96.28/17.90	
C kVAh	685.40	
C MD kVA	—	
Total Billing kWh	B1 664.68	B2 649.19
Billing kWh Zone-1	b11 120.05	b12 117.52
Billing kWh Zone-2	b21 246.64	b22 241.44
Billing kWh Zone-3	b31 113.51	b32 110.86
Billing kWh Zone-4	b41 184.47	b42 179.35
Billing kVAh	677.16	
Billing kVA/MD	0.0357	
Billing kVA Zone-1	b11 0.0237	
Billing kVA Zone-2	b21 0.0357	
Billing kVA Zone-3	b31 0.0264	
Billing kVA Zone-4	b41 0.0241	
Billing Avg. PF	0.997	
CH kVArH Leg/Led	—	
CL kVArh Lag/Lead	—	
% THD Voltage	—	
% THD Current	—	
Anomaly/Diagnose	EC815	
MD Reset Count	33	
Auto/Manual Reset	Auto	

REPLACED BILLING / MAIN METER READINGS

PARAMETERS	IMPORT/FORWARD (Checked by)	EXPORT/REVERSE
Time & Date	16/02/2021 13:42	Final Readings of the old CD: 3000 KVA MC: 15000 & Initial Readings of the NEW CD: 2500 KVA MC: 12500
r MD kVA/r Avg.PF	0.0358/0.9987	
Total C kWh	427.46	
C kWH Zone-1	C1 75.60	
C kWh Zone-2	C2 160.93	
KWh Zone-3	C3 71.72	
C KWh Zone-4	C4 119.20	
C KVArh (Lag/Lead)	42.36/17.35	
C kVAh	432.41	
C MD kVA	—	
Total Billing kWh	B1 419.16	B2 403.67
Billing kWh Zone-1	b11 74.22	b12 71.70
Billing kWh Zone-2	b21 158.13	b22 152.93
Billing kWh Zone-3	b31 70.36	b32 67.71
Billing kWh Zone-4	b41 116.44	b42 111.32
Billing kVAh	424.09	
Billing kVA/MD	0.0371	
Billing kVA Zone-1	b11 0.0238	
Billing kVA Zone-2	b21 0.0371	
Billing kVA Zone-3	b31 0.0265	
Billing kVA Zone-4	b41 0.0242	
Billing Avg. PF	0.997	
CH kVArH Leg/Led	—	
CL kVArh Lag/Lead	—	
% THD Voltage	—	
% THD Current	—	
Anomaly/Diagnose	EC061	
MD Reset Count	21	
Auto/Manual Reset	Auto	

BILLING / MAIN METER INSTANTANEOUS PARAMETERS

PARTICULARS	CALIBRATOR (for Existing Meter) (Before Billing)			EXISTING METER (Billing)			CALIBRATOR (for Replaced Meter) (After Billing)			REPLACED METER (Checked by)		
Phase Sequence	↻ Forward / ↺ Reverse			↻ Forward / ↺ Reverse			↻ Forward / ↺ Reverse			↻ Forward / ↺ Reverse		
Phase	RØ	YØ	BØ	RØ	YØ	BØ	RØ	YØ	BØ	RØ	YØ	BØ
Voltage	61.058	61.347	61.581	60.99	61.55	61.34	61.563	61.731	61.431	61.74	61.87	61.65
Current	0.111	0.118	0.135	0.108	0.119	0.134	0.141	0.153	0.191	0.137	0.148	0.184
Pr.PF/kW/kVA/kVA	0.99/0.021/0.001			0.021/0.998/0.021/0.001/0.021			0.99/0.030/0.001/0.03			0.99/0.029/0.000/0.029		

CURRENT TRANSFORMER

PARTICULARS	EXISTING	FIXED
Make	ICALPA	ICALPA
Type	—	—
Class	0.2	0.2
Insulation	—	—
Burden	2.5VA	2.5VA
Ratio Exist.	150/1A	125/1A
Ratio Connt.	150/1A	125/1A
Sl. No. RØ	15779416	2551/20
Sl. No. YØ	15779516	2544/20
Sl. No. BØ	15779616	2554/20
	Resin Cast/Oil Filled	Resin Cast/Oil Filled

POTENTIAL TRANSFORMER

EXISTING	FIXED
ICALPA	
—	
0.2	
—	
25VA	
63.5V/63.5V	
— " —	
223174/16	
223175/16	
223176/16	
Resin Cast/Oil Filled	Resin Cast/Oil Filled

METERING CUBICAL DETAILS

Make : Existing

Sl. No.

TRANSFORMER DETAILS

Make : Existing

Capacity

Sl. No.

CALIBRATION RESULTS FOR BILLING METER

PARAMETER	CALIBRATOR (Before Billing)	EXISTING (Billing)	CALIBRATOR (After Billing)	REPLACED (Checked by)
kW	found within the limit		found within the limit	
kVArch				
%ge Error = [(MRI-CK)/MRI]*100	−0.048%	%	−0.056%	%

Consumer / Representative Signature with Seal

Meeting

Assistant Engineer (Ele.)
M.T. Division, BESCOM
Basavanagudi, Bangalore - 19

Assistant Executive Engineer (Ele.)
H.T. Rating Sub-Division, BESCOM
Basavanagudi, Bangalore - 19

BANGALORE ELECTRICITY SUPPLY COMPAY LIMITED

(Wholly Owned by Government of Karnataka Undertaking)

No. : EEE/AEE/HTR/[illegible]/MT/BMAZ/
Encl. : Annexure-I

To,
The Assistant Executive Engineer (Elc.)
BG C, O & M Sub-Division
BMAZ, BESCOM, Bengaluru

EHT 47
CD: 3000 - 500
CD: 2500
CTR: 125/1A
MC: 12,500
Tariff: HT2B(1

Office of the Executive Engineer (Elc.),
MT Division, BMAZ (South),
537, VSR Sabhangana, Bhavani Nagar,
Gavipuram, Basavanagudi, Bengaluru - 19.
Tel : 080-026605067

Date : 16/02/2021

Sir/Madam,

Sub : Periodical Rating / Additional/Reduction of Load De-Commission Test Report of HT / EHT Installation bearing RR No. EHT 47 of O&M Unit : BSH

Ref: Your request letter no: 2329 dt 5/02/2021

****** Reduction of load

The HT / EHT Installation having the following details has been rated for 1st rating / periodical / additional / reduction of load / complaint / Meter Replacement / De-Commission test on 16/02/2021.

You are requested to take action on the observations and advices recorded in the report enclosed herewith. Compliance report shall be sent to this office regarding the action taken at your end.

1. Details of HT / EHT Installation : **SRTPV : Yes/No TOD: Yes / No ABT: Yes / No**

Name and Address of the Consumer	M/s Manyatha Promoters (P) Ltd. Manyatha Embassy Business Park. Nagavara, Bly. D3 Block.		
RR No.	EHT-47	Previously Rated Date	17/08/2021
CD in kVA	3500 kVA	Nature of installation	IT-Office
Connected CTR	125/1A	Tariff	HT2B(1
MC (in No. & Words)	12500 - (Twelve thousand five hundred only		
SRTPV IN KWP	---		

2. Observation & Advice on Technical Matter : As per above reference the existing HT installation having RR No: EHT 47 CD: 3000 kVA is reduced to 2500 kVA vide existing CT replacement of CTR 150/1A to 125/1A CTR. The both billing & check

3. Advice on Revenue Matter : meters are calibrated & their error with in the permissible limit & data shows no events. The CTs & PTs are also tested found ok. So submitted for needful action as per Bescom norms.

4. Final & Initial Readings (Applicable for Connected CTR Change / Meter Replacement / De-Commission Test)

Existing / Released Meter of Sl. No. :					Existing / Newly Fixed Meter of Sl. No. :		
With Existing MC:	12500				With Existing / New MC:	12500	
	Import		Export		Import		Export
C kWh / B k Wh	672.648	Final reading of old CD: 3000 MC: 15000		C kWh	48.746	Final reading of old CD: 3000 MC: 15000	
C / B k Wh Zone-1	C1 121.43			B k Wh Zone-1	C1 75.60		
C / B k Wh Zone-2	C2 349.44			B k Wh Zone-2	C2 160.93		
C / B k Wh Zone-3	C3 114.87			B k Wh Zone-3	C3 71.72		
C / B k Wh Zone-4	C4 187.23			B k Wh Zone-4	C4 119.30		
r MD kVA / B MD	0.0388	Initial reading of new CD: 2500 MC: 12500		r MD kVA	0.0358	Initial reading new CD: 2500 MC: 12,500	
r PF / B / Avg. PF	0.995			r PF	0.998		
Equity	683.48			Equity	48.746		

Yours Faithfully

( )
Assistant Executive Engineer (Elc.)
H.T. Rating, BMZ Sub-Division,
BMAZ, BESCOM, Bangalore-19

Copy Submitted to :
1. The Executive Engineer (Ele.), MT Division, BMAZ, BESCOM, Bengaluru-19. for kind information :

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned by Government of Karnataka Undertaking)

An ISO 9001:2015 Certified Lab

NO: EE/AEE/AE/MT DVN/2020-21/3008

Encl: Test report

M/S MANYATHA PROMOTERS PVT LTD

MANYATHA EMBASSY BUSYNESS PARK RACHENAHALLI (V)

NAGAWARA BENGALURU RR NO-E8HT-47

Office of

The Executive Engineer (Ele)

MT Division, BMAZ, BESCOM

Gavipuram, Bangalore

Date: 12-02-2021

Sir,

Subject: Test report of HT CTs.

Reference: 1. your letter no: NILL, Dtd: 10/02/2021

2. Power sanction letter No: CEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/3463-67 Date;28-01-2021

3. CTs Serial No; 2543/20, 2544/20, 2545/20; Ratio; 125/1A,

With reference to the above subject, the above CTs are tested as per IS2705 respectively. Test reports of these CTs are attached with this letter for the below mentioned consumer.

Note: The Test reports confirms only the accuracy of the instrument. All the necessary approvals/field Conditions are to be verified by the concerned officers before commissioning

Yours faithfully,

Executive Engineer (Ele)

MT Division, BESCOM

Gavipuram, Bangalore

Copy to: Assistant Executive Engineer (Ele), MT Lab, MT Division, BESCOM

Bangalore Electricity Supply Company Limite

(Wholly owned by Government of Karnataka Undertaking)
Office of the Executive Engineer, MT Division,
BMAZ, BESCOM

ef. no : AEE/AE/MTLAB/CT PT/2020-21/1648 Date : 10/02/2021

Current Transformer Test Report

onsumer Details :

M/S MANYATHA PROMOTERS PVT LTD
MANYATHA EMBASSY BUSYNESS PARK RACHENAHALLI
(V)
NAGAWARA BENGALURU RR NO-E8HT-47

. Name Plate Details

Make : KALPA

Ratio : Pri : 125 A
Sec : 1 A

Accuracy Class : 0.2

Date of Testing : 10/02/2021

Class : 11kV

CT Sl no/year : 2545-20

Burden : 2.5VA

.Ac racy Test Results

Percentage of load	% Ratio Error		Phase Angle Error in minutes	
	Max limit as per IS	Results found	Max limit as per IS	Results found
120%	+/- 0.2	.0934 %	+/- 10	4.32 min
100%	+/- 0.2	.0907 %	+/- 10	4.41 min
20%	+/- 0.35	.0316 %	+/- 15	6.00 min
5%	+/- 0.75	-.0753 %	+/- 30	7.97 min

Burden at 100%	
VA	PF
2.501VA	1.000

Test Result (Pass/Fail): Pass

1. The above 11 KV CT tested on 10/02/2021.....and the errors are within the limits of accuracy class
2. The testing fee of Rs...708..... Collected vide receipt no & date 884723584330;.DATE-10-02-2021
3. Power sanction letter no & date .CCEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/3463-67. Date;28-01-2021
4. Above CT is to be tested for its IR values at site before commissioning.

Tested by

Assistant Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Approved by

Asst Executive Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Bangalore Electricity Supply Company Limite

(Wholly owned by Government of Karnataka Undertaking)

Office of the Executive Engineer, MT Division,
BMAZ, BESCOM

Ref. no : AEE/AE/MTLAB/CT PT/2020-21/1648 Date : 10/02/2021

Current Transformer Test Report

Consumer Details :

M/S MANYATHA PROMOTERS PVT LTD
MANYATHA EMBASSY BUSYNESS PARK RACHENAHALLI
(V)
NAGAWARA BENGALURU RR NO-E8HT-47

A. Name Plate Details

Make : KALPA

Ratio : Pri : 125 A
Sec : 1 A

Accuracy Class : 0.2

Date of Testing : 10/02/2021

Class : 11kV

CT Sl no/year : 2544-20

Burden : 2.5VA

B.Accuracy Test Results

Percentage of load	% Ratio Error		Phase Angle Error in minutes	
	Max limit as per IS	Results found	Max limit as per IS	Results found
120%	+/- 0.2	-.0823 %	+/- 10	3.25 min
100%	+/- 0.2	-.0863 %	+/- 10	3.17 min
20%	+/- 0.35	-0.151 %	+/- 15	3.68 min
5%	+/- 0.75	-0.279 %	+/- 30	7.12 min

Burden at 100%	
VA	PF
2.495VA	1.000

Test Result (Pass/Fail): Pass

1. The above 11 KV CT tested on 10/02/2021.....and the errors are within the limits of accuracy class
2. The testing fee of Rs...708..... Collected vide receipt no & date 884723584330;.DATE-10-02-2021
3. Power sanction letter no & date .CCEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/3463-67. Date;28-01-2021
4. Above CT is to be tested for its IR values at site before commissioning.

Tested by

Assistant Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Approved by

Asst Executive Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Bangalore Electricity Supply Company Limite

(Wholly owned by Government of Karnataka Undertaking)
Office of the Executive Engineer, MT Division,
BMAZ, BESCOM

Ref. no : AEE/AE/MTLAB/CT PT/2020-21/ 1648 Date : 10/02/2021

Current Transformer Test Report

Consumer Details :

M/S MANYATHA PROMOTERS PVT LTD
MANYATHA EMBASSY BUSYNESS PARK RACHENAHALLI
(V)
NAGAWARA BENGALURU RR NO-E8HT-47

A. Name Plate Details

Make : KALPA

Ratio : Pri : 125 A
Sec : 1 A

Accuracy Class : 0.2

Date of Testing : 10/02/2021

Class : 11kV

CT Sl no/year : 2543-20

Burden : 2.5VA

B.Accuracy Test Results

Percentage of load	% Ratio Error		Phase Angle Error in minutes	
	Max limit as per IS	Results found	Max limit as per IS	Results found
120%	+/- 0.2	-.0814 %	+/- 10	3.30 min
100%	+/- 0.2	-.0872 %	+/- 10	3.14 min
20%	+/- 0.35	-0.137 %	+/- 15	4.18 min
5%	+/- 0.75	-0.244 %	+/- 30	5.69 min

Burden at 100%	
VA	PF
2.490VA	1.000

Test Result (Pass/Fail): Pass

1. The above 11 KV CT tested on 10/02/2021.....and the errors are within the limits of accuracy class
2. The testing fee of Rs...708..... Collected vide receipt no & date 884723584330;. DATE-10-02-2021
3. Power sanction letter no & date .CCEE/BMAZ-N/SEE(O)/AE-2/RD/20-21/3463-67. Date;28-01-2021
4. Above CT is to be tested for its IR values at site before commissioning.

Tested by

Assistant Engineer (Ele)
MT Lab, BMAZ, Bengaluru

Approved by

Asst Executive Engineer (Ele)
MT Lab, BMAZ, Bengaluru

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

Work Type: Serv Req
Est. Start Date:
Priority:
Required: 23-DEC-20
Task Status: PLANNING
Assigned To: DIVAKARA_GOWDA
Contractor :

Work Order *1608478*

Task *01*

Budget Head :

Execution Method: SELF EXECUTION

Task Desc.: Load Reduction Field Survey. Consumer Class: State Govt - HT2b, VoltageRequirement: 11000-V, Phase: THREE, FA Info/Comments: OK

Service Req. No: 3398999

Contact: MANYATHA PROMOTERS PVT LTD
Call Back: N
Address:
Suite:
Landmark:
City/State/Zip: KAR
Work Phone:
Ext:
Home Phone: 7760962407
Problem Code/Desc: LDRED-FS - Load Reduction Field Survey
Problem Description: Load Reduction Field Survey. Consumer Class: State Govt - HT2b, VoltageRequirement: 11000-V, Phase: THREE, FA Info/Comments: OK

Asset: M / 10028292387 - Metering Unit Installed on Asset: 8840938476 (COMMERCIAL COMPLEX)
Component ID:
Description:
Dept/Area: 150390-NAGAWARA OMU 2

Task Note Type	Notes
NOTES PLACED	Report:- This estimate is prepared for reduction of load from 3000KVA to 2500KVA of Commercial HT Installation to RR No. E8HT47 in favor of Manyatha Promoters Pvt. Ltd., Manyatha Embassy Business Park Nagavara, Rachenahalli Village, Bangalore-78 in Nagawara-2 Section Office, E9 Sub-Division. Presently RR No. E8HT47 of Manyatha Promoters Pvt. Ltd., is having a sanctioned load of 3000KVA, D-3 Block, now the consumer has requested for reduction of load from 3000KVA to 2500KVA since their usage is not exceeding 2500KVA. This installation has a regular source feeding through 3 x 400sq.mm XLPE UG cable from F08 Feeder of 66/11 KV Manyatha Tech Park MUSS which is having a peak load of 44Amps. The provision is made in the estimate for retain the existing CTR ratio 150/1A (0.2 Class Accuracy) to match the reduced load. All the necessary provisions have been made in the estimate. This retained load remains on F08 Feeder of Bank-II (PL_44Amps) emanating from 66/11KV Manyatha Tech Park MUSS having an installed capacity of 3 x 31.5MVA and peak load of 1742Amps can retain this load safely.

MATERIALS:

S.NO	Store	Stock Code	Item Description	Rate	Qty.Est	UOM	Amount(INR)	Utility Provided(Y/N)

Sub Total :

LABOR

S.NO	Stock Code	Item Description	Rate	Qty.Est	UOM	Amount(INR)	Utility Provided(Y/N)

Sub Total :

Submitted by: DIVAKARA_GOWDA

23 DEC 2020
08:55 PM

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

OTHER REQUIREMENTS:

Requirement	Item Description	Amount(INR)
	Sub Total :	

ATTACHMENTS:

PERMITS:

Type	Number	Acquired Date

Assistant Engineer (Ele)
Nagawara-2,C,O&M Unit,
Dasarahalli,Bangalore - 560024

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

SERVICE HISTORY:

Type: FLD REPORT Category: IS-LR-HT

Attribute	Value
Nature of activity*	Industrial
Type of Application	REGULAR
Nature of Business	HT2B-ITMDTRCN
Total Existing CD of Building in KVA*	3000
Case id	1186257933
Existing Account ID's*	8840938000
Sanction Load After Load Enh/Red (In KVA)	2500
Total No. of Floors Existing*	12
Total Floor wise plinth area of existing building in sq.mtr*	37331
Total No. of Floors added or New*	0
'ed or New Plinth area in sq.mtr*	0
Total Area of Building in sq.mtr*	37331
Height of the building in mtr*	36
Asset ID of the existing Tapped Pole/RMU*	
Proposed size of the service main proposed in Overhead sq mm	
Proposed size of the service main proposed in UG(sq mm)	
Road cutting permission required by Local authorities	
Name of the sub station*	MANYATHA 66KV MUSS
Power Transformer Capacity in MVA*	20
Peak Load of Station*	1428
Feeder Name*	F-8 MANYATHA D3BLOCK
Peak Load(amps)*	44
Bank No*	2
Peak Load of the Bank (Amps)*	888
HT Voltage regulation as per NE plan percentage %*	2.6
Connected load of the Feeder in KVA	
Proposed Load can be Catered from*	EXST
ing CT Ratio* R and B phase	
Existing CT Make* R and B phase	
Existing CT Burden* R and B phase	
Existing CT Class* R and B phase	
Existing CT Sr.No * R and B phase	
Proposed CT Ratio* R and B phase	
Is RMU Inspection reqd	
Is UG cable Inspection Reqd	
Is Q&S inspection Reqd	
Any other details	

Type: FLD REPORT Category: LOAD REDUCTION

Attribute	Value
Verification of Reason On Load Reduction*	Y
Is Meter Change Required?*	N
AMR-METER CONSUMER*	N

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

150390-NAGAWARA OMU 2

WORK ORDER REPORT

Requestor Name: _____ Date: _____

COMPLETION COMMENTS:

Start Date: _____ Time: _____ Completion Date: _____ Time: _____

FAILURE CODES:

Failure: _____ Repair: _____ Component: _____

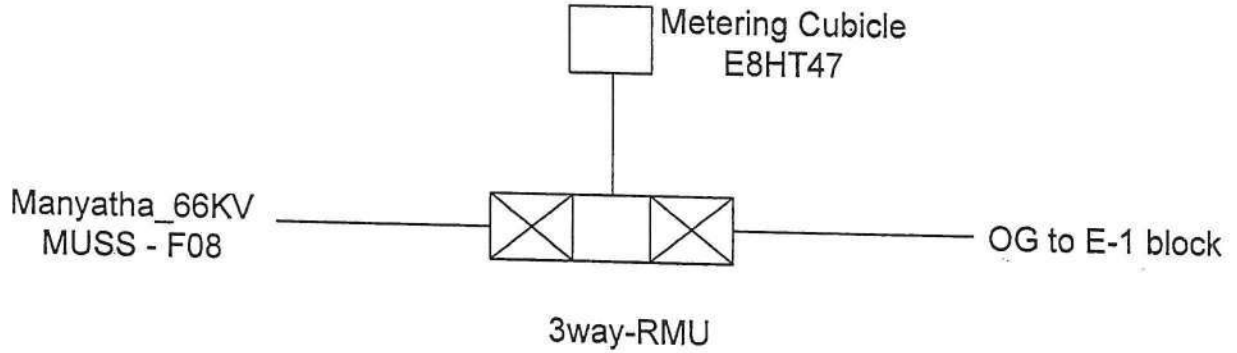
Follow-up Action Required:

SUMMARY

TASK NO	MATERIAL	LABOR	OTHER REQT	TOTAL
01	0	0	0	0
OVERALL TOTAL	0	0	0	0

Assistant Engineer (Ele)
Nagawara-2,C,O&M Unit,
Dasarahalli,Bangalore - 560024

Sketch showing Reduction of load from ***3000KVA*** to ***2500KVA*** of Commercial HT Installation to RR No. ***E8HT47*** in favor of ***Manyatha Promoters Pvt. Ltd., Manyatha Embassy Business Park Nagavara, Rachenahalli Village, Bangalore-78*** in Nagawara-2 Section Office, E9 Sub-Division.

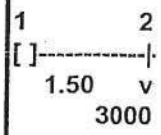


ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್(ವಿ)
ಪೂರ್ವ9ನೇ ಉಪ-ವಿಭಾಗ ಬೆ.ವಿ.ಕಂ.
ಪೆಚ್.ಬಿ.ಆರ್. ಬಡಾವಣೆ, ನಾಗವಾರ, ಬೆಂಗಳೂರು-45

Assistant Engineer (Ele)
Nagawara-2,C,O&M Unit,
Dasarahalli,Bangalore - 560024

VOLTAGE REGULATION & ANNUAL ENERGY LOSSES OF 11 KV FEEDERS.

NAME OF THE SUB STATION : *66/11KV MANYATHA*
NAME OF THE FEEDER : *F08 MANYATHA D3 BLOCK*



Coyote	:	r= 0.248	x= 0.494	i= 367A	Rg= 0.041
Rabbit	:	r= 0.584	x= 0.369	i= 183A	Rg= 0.0636
Weasel	:	r= 0.978	x= 0.379	i= 123A	Rg= 0.093
Squirrel	:	r= 1.476	x= 0.389	i= 97A	Rg= 0.1294

Peak Current (ip)	:	44 Amp
Annual Energy sent out on the feeder (ae)	:	28456800 Units
Power factor	:	0.9
Diversity Factor (df)		
df = tp / (1.73 x 11 x ip)	:	3.583
Load factor (lf)		
lf = ae / (1.73 x 11 x Ip x pf x 8760)	:	4.311
Loss load factor (llf)		
llf = 0.2 x lf + 0.8xlfxlf	:	15.730
Total length of the feeder (tl)	:	1.50 Kms
Total load on the feeder (tp)	:	3000 KVA
Losses = (0.105 x llf x tkvakm / 2xdfxdf) x [e x r]	:	215367.35 Units
% Regulation = (gxRg) / (dfx100)	:	0.51%

(Continued in the next page.....

NAME OF THE SUB STATION : *66/11KV MANYATHA*

NAME OF THE FEEDER : *F08 MANYATHA D3 BLOCK*

	From Node (a)	To Node (b)	Length in KMs (c)	Condu-ctor (d)	Cap. In KVA at To-Node (e)	Load at To-Node (f)	KVA-KMs at To-Node (g)
	1	2	1.50	Coyote	3000.0	3000.0	4500.0
TOTAL:			1.50		3000.0		4500.0

Voltage Regulation at tail end i.e., at last Node : 0.51%

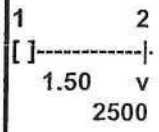
Annual Energy Loss (KVA-KM Method) 215367.35 Units

Assistant Engineer (Ele)
Nagawara-2,C,O&M Unit,
Dasarahalli,Bangalore - 560024

After

VOLTAGE REGULATION & ANNUAL ENERGY LOSSES OF 11 KV FEEDERS.

NAME OF THE SUB STATION : *66/11KV MANYATHA*
NAME OF THE FEEDER : *F08 MANYATHA D3 BLOCK*



Coyote	:	r= 0.248	x= 0.494	i= 367A	Rg= 0.041
Rabbit	:	r= 0.584	x= 0.369	i= 183A	Rg= 0.0636
Weasel	:	r= 0.978	x= 0.379	i= 123A	Rg= 0.093
Squirrel	:	r= 1.476	x= 0.389	i= 97A	Rg= 0.1294

Peak Current (ip)	:	44 Amp
Annual Energy sent out on the feeder (ae)	:	28456800 Units
Power factor	:	0.9
Diversity Factor (df)		
df = tp / (1.73 x 11 x ip)	:	2.986
Load factor (lf)		
lf = ae / (1.73 x 11 x ip x pf x 8760)	:	4.311
Loss load factor (llf)		
llf = 0.2 x lf + 0.8xlfxlf	:	15.730
Total length of the feeder (tl)	:	1.50 Kms
Total load on the feeder (tp)	:	2500 KVA
Losses = (0.105 x llf x tkvakm / 2xdfxdf) x [e x r]	:	215343.31 Units
% Regulation = (gxRg) / (dfx100)	:	0.51%

(Continued in the next page.....

NAME OF THE SUB STATION : *66/11KV MANYATHA*

NAME OF THE FEEDER : *F08 MANYATHA D3 BLOCK*

	From Node (a)	To Node (b)	Length in KMs (c)	Conduc-tor (d)	Cap. In KVA at To-Node (e)	Load at To-Node (f)	KVA-KMs at To-Node (g)
	1	2	1.50	Coyote	2500.0	2500.0	3750.0
TOTAL:			1.50		2500.0		3750.0

Voltage Regulation at tail end i.e., at last Node : 0.51%

Annual Energy Loss (KVA-KM Method)
215343.31 Units

Assistant Engineer (Ele)
Nagawara-2,C,O&M Unit,
Dasarahalli,Bangalore - 560024

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BESCOM

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED
(Wholly owned Government of Karnataka undertaking)

No.: CGM/BMAZ/DGM/AGM-1/F-243/1310-13

Office of the Chief General Manager, Ele.,
(Commercial, Operation & Maintenance),
Bangalore Metropolitan Area Zone,
P.B. No. 5163, K.R. Circle,
Bangalore-560 001.
Date: 04/05/07

M/s Manyatha Promoters Pvt Ltd.,
Classic Court, 1st Floor, 9/1, Richmond Road,
Bangalore.

EE(El). C,O&M Addl. East Dvn.
Please collect the ISD & 10% SC, etc.,
before issue of work order, if any

Sir,

Sub: Arranging HT power supply to an extent of [redacted] in favour of M/s Manyatha Promoters Pvt Ltd., Sy No. 81/83, 82/1, 83/1, 2, 3A, 3B; 4, 84(P), 85/1, 3(P), 4, 5, 6, 7(P), 9, 98, 99/1(P), 2,100/2, 103/5, 6, 105/1, 2, 3, 4, 106(P), 110/1, 2, 3, 111/1, 2, 3, 4, 111/5, 6, 112/1, 2, 3, 113/1, 2, 3, 114/1, 2(p), 3, 4, 5, 115/1, 2, 3, 116/1, 2A, 2B, 3, 4, 5, 6, 117/1, 121/1, 2, 122, 123/1A, 1B, 2, 124/1, 2A, 2B, 3A, 3B Rachenahalli, Nagavara Village, K.R.Puram, Kasaba Hobli, Bangalore.

Ref:
a. BESCOM/GM(T)/BC-22/F-1152(2)/07-08/1627-29 dt : 02.05.07 of General Manager (Tech), BESCOM, Bangalore.
b. GM(C,O&M)/DGM(O)/AGM-1/HT-129/06-07/23923-24 dt : 24.02.07 of the General Manager Ele., Bangalore South Circle, BESCOM, Bangalore.

****

Approval is accorded from Corporate Office to sanction power supply to an extent of [redacted] in favour of M/s Manyatha Promoters Pvt Ltd., at subject address subject to the following conditions:

01. You have to pay the following amounts at **O&M E-8 Sub-Division**, BESCOM, Bangalore (within a period of **One month** from the date of this letter failing which the sanction will stand cancelled) and produce payment certificate to Executive Engineer (Ele.,) [C,O&M], **Addl. East Division,** BESCOM, Bangalore for verification and further action.
    - **Initial Security Deposit: Rs. 62,70,000/-(Rupees Sixty Two Lakhs Seventy Thousand Only).**
    - **Meter Security Deposit: Nil [HT Meter cubicle will be provided from your end as per your request].**
02. **Providing 2 Nos. of new 11KV feeders by laying 3X400sq.mm HT UG cable for a distance of about 2 x 0.75kms(IBM D3).**
03. **Providing RMU with 2OD+1VL proposed inside the applicant's premises.**
04. **All the above – mentioned works are to be executed by the applicant under self-execution by paying 10% supervision charges on the cost of the estimate.**
05. You should install the necessary transformer at your end to receive Power and step it down to the required distribution voltage for your installation.
06. You have to carry out the works involved for arranging this power supply at your cost under self-execution, through a Class-I Electrical contractor as per the estimate approved by the Executive Engineer (Ele.,) [C,O&M] **Addl. East Division**, BESCOM, Bangalore on payment of 10% of cost of the estimate towards supervision charges as indicated below:

a. **Rs. 5,24,410/- (Rs. Five Lakhs Twenty Four Thousand Four Hundred and Ten Only)** at the Office of E-8 Sub-Division, BESCOM.

10. These requirements may please be produced to the Executive Engineer (Ele.,) [C,O&M], **Addl. East Division**, BESCOM, Bangalore.

a. Execute an agreement in the prescribed form.

b. Produce necessary License/Permit/No Objection Certificate etc., issued by the competent authority as required under statute.

c. The approval for your installation by Electrical Inspectorate (test and commissioning Certificate) should be produced for servicing of your installation.

d. Submit the contractors completion-cum test report along with a list in duplicate showing details of machinery, make capacity and the layout plan of your premises within which your intend to use the Power. The capacity of any individual machinery/equipment installed/connected shall not be more than the contract demand.

07. You are liable to pay the tariff minimum charges from the date of commencement of supply (i.e., actual date of availment of Power Supply or expiry of 30 days notice period issued by the BESCOM whichever is earlier) as indicated in the agreement even if you fail to avail Power Supply.

08. You have to install approved shunt capacitors of appropriate capacity so as to maintain the Power factor at not less than **0.9**.

09. The Power tariff applicable to your installation will be **HT- 2(b) of 2005** tariff or as in force from time to time.

10. If you are not desirous of availing the Power Supply, the amount paid by you towards Initial Security Deposit, Meter Security Deposit, etc., will be refunded on application, after deducting ten percent of the total amount paid by you.

11. The metering equipment to be installed should be conspicuously visible and at the main entrance to the premises preferably with an independent entrance.

You are requested to contact the General Manager, Ele., Bangalore Circle **(South)** Executive Engineer, Elec., C,O&M, **Addl. East Division**, BESCOM, Bangalore, for further needful action in the matter.

Yours faithfully,

Chief General Manager, Ele.,
(C,O&M), BMAZ, BESCOM.

Copy to:

1. The General Manager, Ele., C,O&M, Bangalore Circle **(South)**, BESCOM, Bangalore for information.
2. The Executive Engineer, Elec., C, O&M, **Addl. East Division**, BESCOM for information.
3. The Asst. Executive Engineer, Elec., C,O&M, **E-8** O&M Sub-Division, BESCOM, Bangalore to furnish the payment certificate to this Office for having collected the necessary ISD & 10% SC.
4. AGM-1/F-243/MF.

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BESCOM

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED
(Wholly owned Government of Karnataka undertaking)

No.: CGM/BMAZ/DGM/AGM-1/F-243/ 1314-17

Office of the Chief General Manager, Ele
(Commercial, Operation & Maintenance)
Bangalore Metropolitan Area Zone,
P.B. No. 5163, K.R. Circle,
Bangalore-560 001.
Date: 04/05/07

M/s Manyatha Promoters Pvt Ltd.,
Classic Court, 1st Floor, 9/1, Richmond Road,
Bangalore.

EE(El). C,O&M Addl. East Dvn.
Please collect the ISD & 10% SC, etc
before issue of work order, if any

Sir,

Sub: Arranging HT power supply to an extent of 3000KVA, [redacted] in favour of M/s Manyatha Promoters Pvt Ltd., Sy No. 81/83, 82/1, 83/1, 2, 3A, 3B, 4, 84(P), 85/1, 3(P), 4, 5, 6, 7(P), 9, 98, 99/1(P), 2,100/2, 103/5, 6, 105/1, 2, 3, 4, 106(P), 110/1, 2, 3, 111/1, 2, 3, 4, 111/5, 6, 112/1, 2, 3, 113/1, 2, 3, 114/1, 2(p), 3, 4, 5, 115/1, 2, 3, 116/1, 2A, 2B, 3, 4, 5, 6, 117/1, 121/1, 2, 122, 123/1A, 1B, 2, 124/1, 2A, 2B, 3A, 3B Rachenahalli, Nagavara Village, K.R.Puram, Kasaba Hobli, Bangalore.

Ref:
c. BESCOM/GM(T)/BC-22/F-1152(2)/07-08/1627-29 dt : 02.05.07 of General Manager (Tech), BESCOM, Bangalore.
d. GM(C,O&M)/DGM(O)/AGM-1/HT-129/06-07/23923-24 dt : 24.02.07 of the General Manager Ele., Bangalore South Circle, BESCOM, Bangalore.

****

Approval is accorded from Corporate Office to sanction power supply to an extent of [redacted] in favour of M/s Manyatha Promoters Pvt Ltd., at subject address subject to the following conditions:

01. You have to pay the following amounts at **O&M E-8 Sub-Division**, BESCOM Bangalore (within a period of **One month** from the date of this letter failing which the sanction will stand cancelled) and produce payment certificate to Executive Engineer (Ele.,) [C,O&M], **Addl. East Division,** BESCOM, Bangalore for verification and further action.
    - **Initial Security Deposit: Rs. 84,20,000/-(Rupees Eighty Four Lakh Twenty Thousand Only).**
    - **Meter Security Deposit: Nil [HT Meter cubicle will be provided from your end as per your request].**
02. **Providing 2Nos. of new 11KV feeders by laying 3X400sq.mm HT UG cable for a distance of about 2 x 0.5kms(IBM D4).**
03. **Providing RMU with 2OD+1VL proposed inside the applicant's premises.**
04. **All the above – mentioned works are to be executed by the applicant under self-execution by paying 10% supervision charges on the cost of the estimate.**
05. You should install the necessary transformer at your end to receive Power and step it down to the required distribution voltage for your installation.
06. You have to carry out the works involved for arranging this power supply at your cost under self-execution, through a Class-I Electrical contractor as per the estimate approved by the Executive Engineer (Ele.,) [C,O&M] **Addl. East Division,** BESCOM, Bangalore on payment of 10% of cost of the estimate towards supervision charges as indicated below:

Rs. 3,94,830/- (Rs. Three Lakhs Ninety Four Thousand Eight Hundred and Thirty Only) at the Office of E-8 Sub-Division, BESCOM.

10. These requirements may please be produced to the Executive Engineer (Ele.) (C,O&M), **Addl. East Division**, BESCOM, Bangalore.

a. Execute an agreement in the prescribed form.
b. Produce necessary License/Permit/No Objection Certificate etc., issued by the competent authority as required under statute.
c. The approval for your installation by Electrical Inspectorate (test and commissioning Certificate) should be produced for servicing of your installation.
d. Submit the contractors completion-cum test report along with a list in duplicate showing details of machinery, make capacity and the layout plan of your premises within which your intend to use the Power. The capacity of any individual machinery/equipment installed/connected shall not be more than the contract demand.

07. You are liable to pay the tariff minimum charges from the date of commencement of supply (i.e., actual date of availment of Power Supply or expiry of 30 days notice period issued by the BESCOM whichever is earlier) as indicated in the agreement even if you fail to avail Power Supply.

08. You have to install approved shunt capacitors of appropriate capacity so as to maintain the Power factor at not less than **0.9**.

09. The Power tariff applicable to your installation will be **HT- 2(b) of 2005** tariff or as in force from time to time.

10. If you are not desirous of availing the Power Supply, the amount paid by you towards Initial Security Deposit, Meter Security Deposit, etc., will be refunded on application, after deducting ten percent of the total amount paid by you.

11. The metering equipment to be installed should be conspicuously visible and at the main entrance to the premises preferably with an independent entrance.

You are requested to contact the General Manager, Ele., Bangalore Circle **(South)** Executive Engineer, Elec., C,O&M, **Addl. East Division**, BESCOM, Bangalore, for further needful action in the matter.

Yours faithfully

Chief General Manager, Ele.,
(C,O&M), BMAZ, BESCOM.

Copy to:

1. The General Manager, Ele., C,O&M, Bangalore Circle **(South)**, BESCOM, Bangalore for information.
2. The Executive Engineer, Elec., C, O&M, **Addl. East Division**, BESCOM for information.
3. The Asst. Executive Engineer, Elec., C,O&M, **E-8** O&M Sub-Division, BESCOM, Bangalore to furnish the payment certificate to this Office for having collected the necessary ISD & 10% SC.
4. AGM-1/F-243/MF.

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Bangalore Electricity Supply Company Limited

(Wholly owned by Government of Karnataka Undertaking)

No: SEE(C,O&M)/BEC-5872/EE(O)/AEE/HT/16-17/ 8382-84
Encl.:
Email: seeast@bescom.co.in

Office of the
Superintending Engineer, El., (C,O&M),
Bangalore East Circle, BESCOM,
2nd Block, HRBR Layout,
Kalyananagar, Banasawadi
Bangalore-43.

08/03/2017.

To,
M/s. Manyatha Promoters Pvt Ltd.,
(E-1 Block), Manyatha Embassy business Park,
Nagawara, Rachenahalli Village, Bangalore.

Sir,

Sub: - Arranging Addl. power supply to RR.No.E8HT70 to an extent of **625KVA** under **HT-2(b)** tariff in favour of **M/s. Manyatha Promoters Pvt Ltd., (E-1 Block), Manyatha Embassy business Park, Nagawara Rachenahalli Village, Bangalore.**

Ref: - **1.** Ltr.No. CEE/BMAZ/SEE(O)/AEE-4/F-115/16-17/6983 Dt:27.02.2017.
2. Ltr.No. EEE/SND/AEE(O)/AET-1/6107-08 Dt:16.02.2017.
3. Chief General Manager(OP), Corporate office letter no. CGM(OP)/BC-18/F-533/15-16/ 12436 Dated: 30.01.2017

******

With reference to the above, Additional power supply to an extent of **625KVA [Six Hundred & Twenty Five KVA]** under **HT-2(b)** tariff is hereby sanctioned subject to the following conditions. **(The total load in the RR.No. E8HT70 is Existig: 500KVA+Requested load 625KVA =Total load 1125KVA).**

1. You are requested to pay the following charges by DD payable at the office of the Asst. Executive Engineer(El) (C,O&M), BESCOM **E-9** Sub-Division within **90days** from the date of this intimation and furnish the payment certificate for taking further action in this matter.

a) Supervision charges @ 10% on estimate cost of Rs. 33,07,404/- (Excluding Employees cost & Statutary charges)	Rs. 3,30,740.00
b) Service Tax 15% on SC	Rs. 49,611.00
c) 2MMD @ Rs. 2030 per KVA	Rs. 12,68,750.00
d)Meter Security Deposit [3PT & 3CTs HT Metering Cubicle of CT ratio 50/1A].	Self Execution
e) Cable testing charges	Rs. 20,000.00
f) RMU testing charges 2x4080	Rs. 8,160.00
g) Metering cubicle testing charges	Rs. 3,000.00
Total (a) + (b) + (c)+(e) + (f) + (g) =	**Rs. ` 16,80,261.00**

[Rupees Sixteen Lakhs Eighty Thousand Two Hundred & Sixty One only]

2. You have to execute the following works under self execution.

New 11KV line is to be drawn using 3x400sq.mm. U.G. Cable from proposed 220/66KV Manyatha MUSS to a distance of 0.85K.mtrs. upto consumer premises.

3. **Power supply will be arranged with the following conditions as per letter No. cited under ref(3).**
   - **h) After Energizing 3rd 20KVA transformer at 66/11KV Manyatha Tech Park Sub-Station.**
   - **i) The total load on each 20MVA, 66/11KV transformer shall not exceed 15MW at any point of time (totaling to 3x15-45MW).**
   - **j) After commissioning of the proposed 220/66KV Manyatha Sub Station by M/s. Manyatha Promoters Pvt. Ltd.,**
   - **k) BESCOM/KPTCL has the authority for shedding load to the said applicant's premises in case of over loading of existing transmission / distribution network without any obligation.**
4. The power supply will be arranged at **11 KV voltage class.**

a) You should own and install the necessary distribution transformer at your end to receive and step down/step up to the required distribution voltage for your installation.

b) You should execute an agreement in the prescribed form and shall be submitted to the Executive Engineer Ele., of concerned division along with payment certificate and self execution work order will be issued by **Executive Engineer(El), Shivajinagar division,** duly obtaining administrative approval from Circle office.

c) Produce necessary Licensee/permit /No. objection Certificate, etc. issued by the competent authorities as required under statute.

d) Submit the completion-cum-test report from Class-I Licensed Electrical Contractor along with lists in duplicate showing details of machinery, make, capacity and the lay-out plan of your premises within which you intend to use the power. The capacity of any individual machinery equipment installed /connected shall not be more than the contract demand.

e) You should produce the approval of competent authority of Electrical inspectorate to charge the equipment installed by you.

f) You are liable to pay the tariff minimum charges from the date of commencement of supply i.e., actual date of availment of the power supply or expiry of 30 days of notice issued by BESCOM whichever is earlier as indicated in the agreement even if you fail to avail power supply.

g) You have to install approved shunt capacitors of appropriate capacity, so as to maintain the power factor at not less than 0.90.

h) The power tariff applicable to your installation will be **HT-2(b)** as in force from time to time.

i) If you are not desirous of availing the power supply, the amount paid by you towards initial security deposits only will be refunded on application, after deducting of ten percent of the total amount.

j) The Metering equipment to be installed is to be conspicuously visible at the main entrance of the premises preferably with an independent entrance.

Yours faithfully,

Superintending Engineer (El),
Bangalore East Circle.

8/3/2017

Copy to:

1. The Executive Engineer Ele, **Shivajinagar Division,** BESCOM, Bangalore for infn.
2. The Asst. Executive Engineer, Elecl, **E-9** Sub-Division, BESCOM, Bangalore for infn.
3. R&R to AEE-I/MF.

ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ
Bangalore Electricity Supply Company Limited

BESCOM

O/o The Executive Engineer, Ele. (Commercial Operation & Maintenance), Additional East Division, Lazar Road, Bangalore. Ph. 25493008

No.: EE:Ele (Comml., O&M) / ARD / AEE (Q) / AE - T./ 2647-48 Dated: 21-6-06

M/s. Manyata Promoters Pvt. Ltd.,
Rachenahalli, Nagawara Village,
K. R. Pura Hobli, Bangalore.

Sir

Sub: Arranging H.T. Power supply to an extent of 500KVA(Five Hundred KVA) to your installation at above address.

Ref: 1. Assistant Executive Engineer, Ele. E8 sub division, Bangalore letter No. 1041 dt.22.05.2006.
2. Your application dt.29.04.2006.

1. The Power Supply will be arranged on 11 KV Basis.
2. The Power Tariff applicable to the installation will be **HT2b (i)** or the tariff in force time to time.
3. The necessary Transformer and other Accessories for arranging power supply to be instated by the consumer.
4. A sum of **Rs. 10,30,000/- (Rs. Ten Lakhs Thirty Thousand Only)** to be paid towards **Initial Security Deposit (ISDMD)** by Demand Draft.
5. A sum of **Rs. 61,470/- (Rs. Sixty One Thousand Four Hundred and Seventy only)** to be paid towards Cost of **H. T. Metering Cubicle (MCD)** by Demand Draft.
6. **Supervision Charges** to be paid at 10% on the self execution estimate cost for the subject work will be intimated by The General Manager, Ele. (C, O&M), Bangalore Circle South.
7. Payments shall be made at the office of The Assistant Executive Engineer, Ele. (C, O&M), E8 O&M Sub Division.
8. **D. D. shall be drawn in favor of "BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED".**
9. The work of extending H. T. Lines and etc shall be executed under self-execution.
10. An Agreement in the prescribed form, to be executed in triplicate & the licenses / permit / No Objection Certificate etc., issued by the competent authorities to be submitted.
11. Completion cum Test Report furnished by the Licensed Electrical Contractor in duplicate showing details of machinery make capacity etc. and the layout plan of the premises to be submitted. The capacity of any individual machinery equipment installed/connected shall not be more than the contract demand.
12. The approval for commissioning of the installation issued by Electrical Inspectorate to be submitted.
13. The Metering Cubicle should be installed at the location as shown in person and as per the approved drawing of the BESCOM
14. The Tariff minimum charges are payable from the date of commencement of supply i.e., actual date of availment of power supply or expiry of 30 days notice period by the BESCOM whichever is earlier, as indicated in the agreement even if the power supply is not availed.
15. The Security Deposit will be refunded in case the power sanction is not availed or in case the application is withdrawn, by deducting the charges incurred by the BESCOM if any.
16. Consumer has to install approved shunt Capacitors of appropriate capacity, so as to maintain the power factor not less than 0.85.
17. Power supply will be arranged only after observing all the above BESCOM formalities with in **"One month"** from the date of this letter failing which this Power Sanction and the registration will Lapse.

Yours faithfully

Executive Engineer, Ele., (Coml. O&M)
BESCOM, Addl. East Division, Bangalore-05.

Copy to Assistant Executive Engineer, Ele. (C, O&M), BESCOM, E8 Sub Dvn. For information and with a request to collect the necessary Deposit/Charges as indicated above and communicate the RI No. and Date for the amount received at your office.

BANGALORE ELECTRICITY SUPPLY COMPAY LIMITED

(Wholly Owned by Government of Karnataka Undertaking)

No. : EEE/AEE/HTR/1cd/MT/BMAZ/
Encl. : Annexure-I

To,

The Assistant Executive Engineer (Elc.)
E-1 C, O & M Sub-Division
BMAZ, BESCOM, Bengaluru

ESHT70
CD: 11254100
CD: 1125 kVA
CTR: 60/1A
MC: 6000
Tariff HT2B1

Office of the Executive Engineer (Elc.),
MT Division, BMAZ (South),
537, VSR Sabhangana, Bhavani Nagar,
Gavipuram, Basavanagudi, Bengaluru - 19.
Tel : 080-026605067

Date : 17/09/2021

Sir/Madam,

Sub : Periodical Rating / Additional/Reduction of Load De-Commission Test Report of HT / EHT Installation bearing RR No. ESHT70 of O&M Unit : Basavanahalli

Ref: Your request letter no: 128 dt. 16/09/2021

****** Additional load

The HT / EHT Installation having the following details has been rated for 1st rating / periodical / additional / reduction of load / complaint / Meter Replacement / De-Commission test on 17/09/2021

You are requested to take action on the observations and advices recorded in the report enclosed herewith. Compliance report shall be sent to this office regarding the action taken at your end.

1. Details of HT / EHT Installation : **SRTPV : Yes/No TOD: Yes / No ABT: Yes / No**

Name and Address of the Consumer	Manyatha Promoters (P) Ltd. Manyatha Tech Park Nagavara Plr		
RR No.	ESHT70	Previously Rated Date	24/07/2020
CD in kVA	1125 kVA	Nature of installation	Commercial
Connected CTR	60/1A	Tariff	HT2B1
MC (in No. & Words)	6000 (Six Thousand Only)		
SRTPV IN KWP	—		

2. Observation & Advice on Technical Matter :

As per above reference letter no existing in RR No: ESHT70 is sanctioned additional 100 kVA with existing 1125 kVA the existing CTR: 60/1A are suitable for upto 1225 kVA.

3. Advice on Revenue Matter : all components are tested found ok. the meter is calibrated shows error with in the permissible limit and no events found in the meter data. So submitted for needful action as per at soon norms.

4. Final & Initial Readings (Applicable for Connected CTR Change / Meter Replacement / De-Commission Test)

Existing / Released Meter of Sl. No. : 17068791X Existing / Newly Fixed Meter of Sl. No. : 17125050

With Existing MC: 6000--	Import	Export	With Existing / New MC: 6000--	Import	Export
C kWh / B k Wh	1294.69	Final Readings of the old MD CD: 1125 kVA CTR: 60/1A MC: 6000	C kWh	Some Readings as per the Initial Readings of New CD: 1225 kVA CTR: 60/1A MC: 6000.	
C / B k Wh Zone-1	203.10		B k Wh Zone-1		
C / B k Wh Zone-2	561.62		B k Wh Zone-2		
C / B k Wh Zone-3	223.86		B k Wh Zone-3		
C / B k Wh Zone-4	305.15		B k Wh Zone-4		
r MD kVA / B MD	0.0797		r MD kVA		
r PF / B / Avg. PF	0.917		r PF		
KVAh	1345.49		Yours Faithfully		

( )
Assistant Executive Engineer (Elc.)
H.T. Rating, 1cd Sub-Division,
BMAZ, BESCOM, Bangalore-19

Copy Submitted to :
1. The Executive Engineer (Ele.), MT Division, BMAZ, BESCOM, Bengaluru-19, for kind information :

ANNEXURE-I

BILLING (MAIN) METER CALIBRATION REPORT

RR No.: ES41790 CD: 1125+1000=2125 CCTR: 6011A MC: 6006 Date: 17/08/2021

BILLING/MAIN METER SEALS DETAILS

PARTICULARS	SEALS FOUND		SEALS LEFT	
	Lead / P.C.	Plastic/Mfg.	Lead / P.C.	Plastic/Mfg.
Meter Cover	SMC03591	296671	SMC03797	430125
Terminal Cover	SMC03719		SMC03601	
MD Reset Button	SMC03706		SMC03602	
Test Terminal Block	AP66275			
Meter Chamber Main Door		SMES7658	SMES7659	
Mtter Reading Window				
CT&PT Chamber	0815970	SMES7660	SMES7661	
Cable Entery Chamber	UP11			
Hologram	MH08A177			
Optical Port				
Modem SIM Card Slot				

BILLING/MAIN METER DETAILS

PARTICULARS	EXISTING	REPLACED
Make	L&T	L&T
Category/Type	C/B/A	C/B/A
Class	0.2S / 0.5S	0.2S / 0.5S
Voltage	3x63.5V / 110V	3x63.5V / 110V
Amps	1A / 5A	1A / 5A
Pulse	50000	50000
Dial Constant	1	1
Sl. No.	17068398	17125039
Year & Mfd.	FEB.2017	SEP 2017
Wiring Type	3P3W / 3P4W	3P3W / 3P4W
DLMS/TOD/ABT	DLMS/TOD/ABT	DLMS/TOD/ABT
Com.Port Avail.	RS-232/485/OP	RS-232/485/OP

MODEM AND SIM CARD DETAILS

PARTICULARS	EXISTING	REPLACED
Modem Make & Sl. No.		
SIM CARD No.		

EXISTING BILLING / MAIN METER READINGS

PARAMETERS	IMPORT/FORWARD	EXPORT/REVERSE
Time & Date	17/08/2021 16:03	Export Readings at 11:00 hr
r MD kVA/r Avg.PF	0.7471 / 0.9773	CD: 1195 kW
Total C kWh	1294.69	MF: 6000
C kWH Zone-1	703.14	
C kWh Zone-2	561.62	
C kWh Zone-3	733.86	
C KWh Zone-4	296.15	
C KVArh (Lag/Lead)	301.86 / 53.00	
C kVAh	345.44	
C MD kVA	1282.36	1961.13
Total Billing kWh	1200.91	1197.10
Billing kWh Zone-1	556.03	540.86
Billing kWh Zone-2	252.18	279.04
Billing kWh Zone-3	243.29	288.12
Billing kWh Zone-4	1332.89	
Billing kVAh	0.9739	
Billing kVA/MD	0.9739	
Billing kVA Zone-1	0.9723	
Billing kVA Zone-2	0.0352	
Billing kVA Zone-3	0.0264	
Billing kVA Zone-4	0.9377	
Billing Avg. PF		
CH kVArH Leg/Led		
CL kVArh Lag/Lead		
% THD Voltage		
THD Current		
Anomaly/Diagnose	E478	
MD Reset Count	47	
Auto/Manual Reset	Auto	

REPLACED BILLING / MAIN METER READINGS

PARAMETERS	IMPORT/FORWARD	EXPORT/REVERSE
Time & Date	17/08/2021 16:03	Export Readings at 11:00 hr
r MD kVA/r Avg.PF	0.0764 / 0.9777	CD: 1195 kW
Total C kWh	1296.35	MF: 6000
C kWH Zone-1	196.16	
C kWh Zone-2	540.93	
C kWh Zone-3	270.35	
C KWh Zone-4	285.40	
C KVArh (Lag/Lead)	301.14 / 70.19	
C kVAh	1197.08	
C MD kVA	1234.03	1212.80
Total Billing kWh	1193.90	1170.06
Billing kWh Zone-1	534.94	525.81
Billing kWh Zone-2	727.68	719.55
Billing kWh Zone-3	287.09	717.31
Billing kWh Zone-4	1384.61	
Billing kVAh	0.9767	
Billing kVA/MD	0.9767	
Billing kVA Zone-1	0.9735	
Billing kVA Zone-2	0.0350	
Billing kVA Zone-3	0.0295	
Billing kVA Zone-4	0.9437	
Billing Avg. PF		
CH kVArH Leg/Led		
CL kVArh Lag/Lead		
% THD Voltage		
THD Current		
Anomaly/Diagnose	E421	
MD Reset Count	47	
Auto/Manual Reset	Auto	

BILLING / MAIN METER INSTANTANEOUS PARAMETERS

PARTICULARS	CALIBRATOR (for Existing Meter)	EXISTING METER	CALIBRATOR (for Replaced Meter)	REPLACED METER
Phase Sequence	↻ Forward / ↺ Reverse	↻ Forward / ↺ Reverse	↻ Forward / ↺ Reverse	↻ Forward / ↺ Reverse
Phase	RØ YØ BØ	RØ YØ BØ	RØ YØ BØ	RØ YØ BØ
Voltage				
Current				
Pr.PF/kW/kVA/kVA				

PARTICULARS	CURRENT TRANSFORMER		POTENTIAL TRANSFORMER	
	EXISTING	FIXED	EXISTING	FIXED
Make				
Type				
Class				
Insulation				
Burden				
Ratio Exist.				
Ratio Connt.				
Sl. No. R Ø				
Sl. No. Y Ø				
Sl. No. B Ø				
	Resin Cast/Oil Filled	Resin Cast/Oil Filled	Resin Cast/Oil Filled	Resin Cast/Oil Filled

METERING CUBICAL DETAILS

Make :	
Sl. No.	

TRANSFORMER DETAILS

Make :	
Capacity	
Sl. No.	

CALIBRATION RESULTS FOR BILLING METER

PARAMETER	CALIBRATOR	EXISTING	CALIBRATOR	REPLACED
kW				
kVArh				
%ge Error = [(MRI-CA)/MRI]*100		-0.09 %		-0.64 %

Consumer / Representative Signature with Seal

Assistant Engineer (Ele.)
M.T. Division, BESCOM
Basavanagudi, Bangalore - 19

Assistant Executive Engineer (Ele.)
H.T. Rating ..... Sub Division, BESCOM
Basavanagudi, Bangalore - 19

Rs. 34,85,634

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BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned Government of Karnataka undertaking)

BESCOM

NO: CEE/BMAZ/SEE(O)/AEE-4/F-115/16-17/6941-44
Encl:

Phone No.22113868
Mobile no.9449045888
Email: cebmaz@bescom.co.in

Office Of
The Chief Engineer Ele.,
C,O&M, BMAZ, No. 14/3, 3rd Floor, Maharshi Aravinda Bhavan, Nrupathunga Road,
Bangalore-560 001.

Date: 25/02/17

To,

M/s Manyatha Promoters Private Ltd.,
Manyatha Embassy Business Park,
Nagavara, Rachenahalli village,
Bengaluru East Taluk,

Sir,

Sub:- Arranging additional power supply to an extent of 1500KVA(Exi. Load 3750KVA, Total 5250 KVA) to RR.No. E8HT-52 in favour of the M/s.Manyatha Promoters Private Ltd., Manyatha Embassy Business Park, Nagavara, Rachenahalli village of Bengaluru East Taluk

Ref:- Ltr No. CGM(OP)/BC-18/F-533/15-16/12436 Dtd: 30.01.2017.

****

With reference to the above, as per the approval of Corporate office in the letter cited under ref, approval is hereby accorded for arranging additional power supply to an extent of 1500KVA(exi. 3750KVA, Total 5250 KVA) to RR.No. E8HT-52 in favour of the M/s. Manyatha Promoters Private Ltd., Manyatha Embassy Business Park, Nagavara, Rachenahalli village of Bengaluru East Taluk, Shivajinagar division of E-9 S/d subject to the following conditions:

1. The total load on each 20MVA, 66/11KV transformer shall not exceed 15MW at any point of time (totaling to 3x15=45MW).
2. Power supply is feasible only after commissioning of the proposed 220KV Manyatha sub-station by M/s Manyatha promoters pvt. Ltd.,
3. BESCOM/KPTCL has the authority for shedding load to the applicants premises in case of overloading of existing transmission/distribution network without any obligations.
4. **Regular source station & feeder details:**
   - Name of the station : Manyatha MUSS
   - Feeder details : New Feeder

2. **Alternate source station & feeder details:**
   - Name of the station : Manyatha MUSS
   - Feeder details : F-12 Feeder

3. You have to pay the following amounts at the O/o Assistant Executive Engineer (Ele.,), C,O&M, E-9 Sub-Division , BESCOM, Bangalore within period of 90 days from the date of this letter failing which the sanction will stand cancelled:
   - **10% Supervision charges is Rs. 3,55,000/- (Rupees Three Lakhs fifty five Thousand Only).**
   - **UG Cable testing charges is Rs.20,000/-(Rupees Twenty Thousand Only)**
   - **RMU testing fees is Rs.4080x2 = Rs.8,160/- (Rupees Eight Thousand One Hundred and Sixty Only).**
   - **15% Service tax is Rs. 57,474/- (Rupees Fifty Seven Thousand Four Hundred and Seventy Four Only).**
   - **2 MMD charges is Rs. 30,45,000/- (Rupees Thirty Lakhs Forty Five Thousand Only).**

7. If the height of building is 15m and above, you have to obtain the approval of chief electrical inspectorate & Fire extinguishing department.
8. The entire distribution system with the connected equipment's will be taken over by BESCOM after completion of the works.
9. You have to install approved shunt capacitors of appropriate capacity, so as to maintain the power factor at not less than 0.90.
10. Guarantee shall be furnished for a period of not less than one year for the materials used in the works as well as for the quality of the work carried out from the date of taking over of the lines and equipment's by BESCOM.
11. If Dry type LBS/500 KVA /CSS/transformer has been installed under self execution, an under taking shall be furnished that the same shall be maintained by the applicant.
12. Solar water heater of suitable capacity shall be installed.
13. The material for the entire work shall be procured through BESCOM approved vendor & proof of documents shall be verified by the BESCOM inspecting officer at the time of inspection.
14. The materials used shall confirm to BESCOM specifications and shall be dispatched only after inspection & certification from BESCOM.As per KERC/COS/D/07/08 dt: 14.03. 2008 (Page No.-18) the service main cables shall have distinct identity and separation. Metering arrangements shall be at the ground floor only. Power supply to different types of consumers in building/ premises can be arranged through separate VLs having common isolation point. While doing so, the Licensee shall obtain an undertaking from the consumer/ consumers for ensuring safety arising out of providing supply to that premises through different services
15. You should own and install the necessary distribution transformer at your end to receive and step down/step up to the required distribution voltage for your installation.
16. Produce necessary Licensee/permit/no objection certificate , etc. issued by the competent authorities as required under statute.
17. You should produce the approval of competent authority of electrical inspectorate to charge the equipment installed by you.
18. The power tariff applicable to your installation will be HT-2(b) as in force from time to time.
19. If you are not desirous of availing the power supply, the amount paid by you towards initial security deposits only will be refunded on application, after deducting of ten percent of the total amount.
20. The metering equipment to be installed is to be conspicuously visible at the main entrance of the premises preferably with an independent entrance.
21. Other conditions specified in the Addl. clause 3-2-1 of Conditions of Supply of Electricity should be fulfilled.
22. After payment of necessary charges, administrative approval will be issued from this Office.
23. In case if applicant fail to meet any one of the above conditions, the intimation letter is deemed to be cancelled.

Note: Material inspection fee, if applicable, shall be paid at the sub-division office as per CYS-26 Dtd: 27.06.2011 of General Manager (TA&QC)

Yours faithfully,

Chief Engineer Ele.,
(C, O&M), BMAZ, BESCOM.

NAL LABS LLP
Formerly - **NATIONAL ANALYTICAL LABORATORIES AND RESEARCH CENTER**
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T : 080 41214555 I M : +91 70901 54555 / 95383 24580
E-mail : info@nalrcindia.com / patil.hrb@gmail.com Web : www.nalrcindia.com
TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Embassy Manyata Business Park, Nagawara Outer Ring Road, Bangalore – 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2562
Product or Material	Ambient Monitoring	Report No	NAL/2026/05506
Particulars of Sample	Ambient Air Quality Monitoring	ULR No	TC1342726000014994F
Sampling Point	**Near Central Park**	Date of Monitoring	21.02.2026
		Date of sample Receipt	21.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

ENVIRONMENTAL CONDITIONS			
Ambient Temperature(°C)	33.0	Humidity (%):	48.0
Climate:	Clear Sky	Wind Flow:	Normal

DETAILS OF INSTRUMENT USED		
Instrument Name:	PM 2.5	PM 10
	Fine Particulate Sampler	Respirable Dust Sampler
Make & Model	ETCL APM - 172 mini	ETCL/ APM-415 BL
Sl No	155-DTA-2024	155- DTA-2024
Calibrated Date	08.07.2025	08.07.2025
calibration due Date	07.07.2026	07.07.2026

AMBIENT MONITORING TEST RESULTS

SL. NO	PARAMETER	UNIT	RESULTS	LIMITS AS PER NAAQS STANDARD	METHOD
1	Particulate Matter (PM10)	$\mu g/m^3$	58.5	100.0 Max	IS 5182 : Part 23: 2006 (RA 2022)
2	Particulate matter (PM2.5)	$\mu g/m^3$	27.9	60.0 Max	IS 5182 : Part 24: 2019 (RA 2024)
3	Sulphur Dioxide (SO2)	$\mu g/m^3$	11.7	80.0 Max	IS 5182 : Part 2: 2001 (RA 2022)
4	Nitrogen Dioxide (NO2)	$\mu g/m^3$	24.0	80.0 Max	IS 5182 : Part 6: 2006 (RA 2022)
5	Lead as Pb	$\mu g/m^3$	BDL(DL=0.01)	1.0 Max	IS 5182 : Part 22: 2004 (RA 2019)
6	Ammonia (NH3)	$\mu g/m^3$	10.8	400.0 Max	IS 5182: Part 25: 2018
7	Arsenic as As	ng/m^3	BDL(DL=1.0)	6.0 Max	NALRC/SOP/AIR-19 2022
8	Nickel as Ni	$\mu g/m^3$	BDL(DL=0.01)	0.02Max	IS 5182: Part 26: 2020
9	Ozone as O3	$\mu g/m^3$	BDL(DL=2.0)	100.0 Max	IS 5182: Part 9: 1974 (RA 2019)
10	Carbon Monoxide	mg/m^3	BDL(DL=0.0)	4.0 Max	IS 5182: Part 10: 1999 (RA 2019)
11	Benzene (C6H6)	$\mu g/m^3$	BDL(DL=5.0)	5.0 Max	IS 5182: Part 11: 2006 (RA 2022)

Note: Max: Maximum, BDL: Below Detection Limit, DL: Detection Limit.
Remarks: The sample meets to NAAQS limits for above tested Parameters.

*** * * * End of the Report* * * * ***

NAL LABS LLP Bangalore-58

Verified By

Lalitha Kumari H
Technical Manager
Authorized Signatory

NAL LABS LLP
Formerly - **NATIONAL ANALYTICAL LABORATORIES AND RESEARCH CENTER**
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T : 080 41214555 I M : +91 70901 54555 / 95383 24580
E-mail : info@nalrcindia.com / patil.hrb@gmail.com Web : www.nalrcindia.com

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Embassy Manyata Business Park, Nagawara Outer Ring Road, Bangalore – 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2562
Product or Material	Ambient Monitoring	Report No	NAL/2026/05506
Particulars of Sample	Ambient Air Quality Monitoring	Date of Monitoring	21.02.2026
Sampling Point	**Near Central Park**	Date of sample Receipt	21.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

ENVIRONMENTAL CONDITIONS			
Ambient Temperature(°C)	33.0	Humidity (%):	48.0
Climate:	Clear Sky	Wind Flow:	Normal

DETAILS OF INSTRUMENT USED		
Instrument Name:	PM 2.5 Fine Particulate Sampler	PM 10 Respirable Dust Sampler
Make & Model	ETCL APM - 172 mini	ETCL/ APM-415 BL
Sl No	155-DTA-2024	155- DTA-2024
Calibrated Date	08.07.2025	08.07.2025
calibration due Date	07.07.2026	07.07.2026

AMBIENT MONITORING TEST RESULTS

SL. NO	PARAMETER	UNIT	RESULTS	LIMITS AS PER NAAQS STANDARD	METHOD
1	Benzo (a) Pyrene	ng/m^3	BDL(DL=1.0)	1.0 Max	IS 5182: Part 12: 2004 (RA 2019)

Note: Max: Maximum, BDL: Below Detection Limit, DL: Detection Limit.
Remarks: The sample meets to NAAQS limits for above tested Parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore-58

Lalitha Kumari H
Technical Manager
Authorized Signatory

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E-mail : info@nalrcindia.com / patil.hrb@gmail.com Web : www.nalrcindia.com
TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Embassy Manyata Business Park, Nagawara Outer Ring Road, Bangalore – 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2563
Product or Material	Ambient Monitoring	Report No	NAL/2026/05507
Particulars of Sample	Ambient Air Quality Monitoring	ULR No	TC1342726000014995F
Sampling Point	**Near ANZ Circle Area**	Date of Monitoring	21.02.2026
		Date of sample Receipt	21.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

ENVIRONMENTAL CONDITIONS			
Ambient Temperature(°C)	33.0	Humidity (%):	48.0
Climate:	Clear Sky	Wind Flow:	Normal

DETAILS OF INSTRUMENT USED		
Instrument Name:	PM 2.5	PM 10
	PM 10/PM 2.5 Sampler	Respirable Dust Sampler
Make & Model	ETCL APM - 172 mini	ETCL/ APM-415 BL
Sl No	156-DTA-2024	156- DTA-2025
Calibrated Date	08.07.2025	08.07.2025
calibration due Date	07.07.2026	07.07.2026

AMBIENT MONITORING TEST RESULTS

SL. NO	PARAMETER	UNIT	RESULTS	LIMITS AS PER NAAQS STANDARD	METHOD
1	Particulate Matter (PM10)	$\mu g/m^3$	64.7	100.0 Max	IS 5182 : Part 23: 2006 (RA 2022)
2	Particulate matter (PM2.5)	$\mu g/m^3$	28.5	60.0 Max	IS 5182 : Part 24: 2019 (RA 2024)
3	Sulphur Dioxide (SO2)	$\mu g/m^3$	13.2	80.0 Max	IS 5182 : Part 2: 2001 (RA 2022)
4	Nitrogen Dioxide (NO2)	$\mu g/m^3$	25.6	80.0 Max	IS 5182 : Part 6: 2006 (RA 2022)
5	Lead as Pb	$\mu g/m^3$	BDL(DL=0.01)	1.0 Max	IS 5182 : Part 22: 2004 (RA 2019)
6	Ammonia (NH3)	$\mu g/m^3$	10.4	400.0 Max	IS 5182: Part 25: 2018
7	Arsenic as As	ng/m^3	BDL(DL=1.0)	6.0 Max	NALRC/SOP/AIR-19 2022
8	Nickel as Ni	$\mu g/m^3$	BDL(DL=0.01)	0.02Max	IS 5182: Part 26: 2020
9	Ozone as O3	$\mu g/m^3$	BDL(DL=2.0)	100.0 Max	IS 5182: Part 9: 1974 (RA 2019)
10	Carbon Monoxide	mg/m^3	BDL(DL=0.0)	4.0 Max	IS 5182: Part 10: 1999 (RA 2019)
11	Benzene (C6H6)	$\mu g/m^3$	BDL(DL=5.0)	5.0 Max	IS 5182: Part 11: 2006 (RA 2022)

Note: Max: Maximum, BDL: Below Detection Limit, DL: Detection Limit.
Remarks: The sample meets to NAAQS limits for above tested Parameters.

*** * * * End of the Report* * * ***

NAL LABS LLP Bangalore-58

Lalitha Kumari H
Technical Manager
Authorized Signatory

Verified By

NAL LABS LLP
Formerly - **NATIONAL ANALYTICAL LABORATORIES AND RESEARCH CENTER**
1064, 1st and 2nd Floor, Rajgopal Nagar Main Road, 2nd Stage, Peenya Small Industries,
Bangalore, Karnataka, India, 560 058.
T : 080 41214555 I M : +91 70901 54555 / 95383 24580
E-mail : info@nalrcindia.com / patil.hrb@gmail.com Web : www.nalrcindia.com

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Embassy Manyata Business Park, Nagawara Outer Ring Road, Bangalore – 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2563
Product or Material	Ambient Monitoring	Report No	NAL/2026/05507
Particulars of Sample	Ambient Air Quality Monitoring	Date of Monitoring	21.02.2026
Sampling Point	**Near ANZ Circle Area**	Date of sample Receipt	21.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

ENVIRONMENTAL CONDITIONS			
Ambient Temperature(°C)	33.0	Humidity (%):	48.0
Climate:	Clear Sky	Wind Flow:	Normal

DETAILS OF INSTRUMENT USED		
Instrument Name:	PM 2.5 PM 10/PM 2.5 Sampler	PM 10 Respirable Dust Sampler
Make & Model	ETCL APM - 172 mini	ETCL/ APM-415 BL
Sl No	156-DTA-2024	156- DTA-2025
Calibrated Date	08.07.2025	08.07.2025
calibration due Date	07.07.2026	07.07.2026

AMBIENT MONITORING TEST RESULTS

SL. NO	PARAMETER	UNIT	RESULTS	LIMITS AS PER NAAQS STANDARD	METHOD
1	Benzo (a) Pyrene	ng/m^3	BDL(DL=1.0)	1.0 Max	IS 5182: Part 12: 2004 (RA 2019)

Note: Max: Maximum, BDL: Below Detection Limit, DL: Detection Limit.
Remarks: The sample meets to NAAQS limits for above tested Parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore-58

Lalitha Kumari H
Technical Manager
Authorized Signatory

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E-mail : info@nalrcindia.com / patil.hrb@gmail.com Web : www.nalrcindia.com
TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Embassy Manyata Business Park, Nagawara Outer Ring Road, Bangalore – 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2564
Product or Material	Ambient Monitoring	Report No	NAL/2026/05508
Particulars of Sample	Ambient Air Quality Monitoring	ULR No	TC1342726000014996F
Sampling Point	**Near Security Gate - 2**	Date of Monitoring	21.02.2026
		Date of sample Receipt	21.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

ENVIRONMENTAL CONDITIONS			
Ambient Temperature(°C)	33.0	Humidity (%):	46.0
Climate:	Clear Sky	Wind Flow:	Normal

DETAILS OF INSTRUMENT USED		
Instrument Name:	PM 2.5	PM 10
	PM 10/PM 2.5 Sampler	Respirable Dust Sampler
Make & Model	ETCL APM - 172 mini	ETCL/ APM-415 BL
Sl No	157-DTA-2024	157- DTA-2026
Calibrated Date	08.07.2025	08.07.2025
calibration due Date	07.07.2026	07.07.2026

AMBIENT MONITORING TEST RESULTS

SL. NO	PARAMETER	UNIT	RESULTS	LIMITS AS PER NAAQS STANDARD	METHOD
1	Particulate Matter (PM10)	$\mu g/m^3$	68.8	100.0 Max	IS 5182 : Part 23: 2006 (RA 2022)
2	Particulate matter (PM2.5)	$\mu g/m^3$	29.4	60.0 Max	IS 5182 : Part 24: 2019 (RA 2024)
3	Sulphur Dioxide (SO2)	$\mu g/m^3$	13.3	80.0 Max	IS 5182 : Part 2: 2001 (RA 2022)
4	Nitrogen Dioxide (NO2)	$\mu g/m^3$	25.0	80.0 Max	IS 5182 : Part 6: 2006 (RA 2022)
5	Lead as Pb	$\mu g/m^3$	BDL(DL=0.01)	1.0 Max	IS 5182 : Part 22: 2004 (RA 2019)
6	Ammonia (NH3)	$\mu g/m^3$	11.6	400.0 Max	IS 5182: Part 25: 2018
7	Arsenic as As	ng/m^3	BDL(DL=1.0)	6.0 Max	NALRC/SOP/AIR-19 2022
8	Nickel as Ni	$\mu g/m^3$	BDL(DL=0.01)	0.02Max	IS 5182: Part 26: 2020
9	Ozone as O3	$\mu g/m^3$	BDL(DL=2.0)	100.0 Max	IS 5182: Part 9: 1974 (RA 2019)
10	Carbon Monoxide	mg/m^3	BDL(DL=0.0)	4.0 Max	IS 5182: Part 10: 1999 (RA 2019)
11	Benzene (C6H6)	$\mu g/m^3$	BDL(DL=5.0)	5.0 Max	IS 5182: Part 11: 2006 (RA 2022)

Note: Max: Maximum, BDL: Below Detection Limit, DL: Detection Limit.
Remarks: The sample meets to NAAQS limits for above tested Parameters.

*** * * * End of the Report* * * * ***

NAL LABS LLP Bangalore-58

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Lalitha Kumari H
Technical Manager
Authorized Signatory

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TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Embassy Manyata Business Park, Nagawara Outer Ring Road, Bangalore – 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2564
Product or Material	Ambient Monitoring	Report No	NAL/2026/05508
Particulars of Sample	Ambient Air Quality Monitoring	Date of Monitoring	21.02.2026
Sampling Point	**Near Security Gate - 2**	Date of sample Receipt	21.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

ENVIRONMENTAL CONDITIONS			
Ambient Temperature(°C)	33.0	Humidity (%):	46.0
Climate:	Clear Sky	Wind Flow:	Normal

DETAILS OF INSTRUMENT USED		
Instrument Name:	PM 2.5 PM 10/PM 2.5 Sampler	PM 10 Respirable Dust Sampler
Make & Model	ETCL APM - 172 mini	ETCL/ APM-415 BL
Sl No	157-DTA-2024	157- DTA-2026
Calibrated Date	08.07.2025	08.07.2025
calibration due Date	07.07.2026	07.07.2026

AMBIENT MONITORING TEST RESULTS

SL. NO	PARAMETER	UNIT	RESULTS	LIMITS AS PER NAAQS STANDARD	METHOD
1	Benzo (a) Pyrene	ng/m^3	BDL(DL=1.0)	1.0 Max	IS 5182: Part 12: 2004 (RA 2019)

Note: Max: Maximum, BDL: Below Detection Limit, DL: Detection Limit.
Remarks: The sample meets to NAAQS limits for above tested Parameters.

*** * * * End of the Report* * * * ***

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TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Embassy Manyata Business Park, Nagawara Outer Ring Road, Bangalore – 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2565
Product or Material	Ambient Monitoring	Report No	NAL/2026/05509
Particulars of Sample	Ambient Air Quality Monitoring	ULR No	TC13427260000014997F
Sampling Point	**Near Security Gate - 1**	Date of Monitoring	21.02.2026
		Date of sample Receipt	21.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

ENVIRONMENTAL CONDITIONS			
Ambient Temperature(°C)	32.0	Humidity (%):	47.0
Climate:	Clear Sky	Wind Flow:	Normal

DETAILS OF INSTRUMENT USED		
Instrument Name:	PM 2.5 Fine Particulate Sampler	PM 10 Respirable Dust Sampler
Make & Model	ETCL APM - 172 mini	ETCL/ APM-415 BL
Sl No	104-DTA-2024	158- DTA-2027
Calibrated Date	08.07.2025	08.07.2025
calibration due Date	07.07.2026	07.07.2026

AMBIENT MONITORING TEST RESULTS

SL. NO	PARAMETER	UNIT	RESULTS	LIMITS AS PER NAAQS STANDARD	METHOD
1	Particulate Matter (PM10)	$\mu g/m^3$	70.3	100.0 Max	IS 5182 : Part 23: 2006 (RA 2022)
2	Particulate matter (PM2.5)	$\mu g/m^3$	27.1	60.0 Max	IS 5182 : Part 24: 2019 (RA 2024)
3	Sulphur Dioxide (SO2)	$\mu g/m^3$	12.9	80.0 Max	IS 5182 : Part 2: 2001 (RA 2022)
4	Nitrogen Dioxide (NO2)	$\mu g/m^3$	26.6	80.0 Max	IS 5182 : Part 6: 2006 (RA 2022)
5	Lead as Pb	$\mu g/m^3$	BDL(DL=0.01)	1.0 Max	IS 5182 : Part 22: 2004 (RA 2019)
6	Ammonia (NH3)	$\mu g/m^3$	12.7	400.0 Max	IS 5182: Part 25: 2018
7	Arsenic as As	ng/m^3	BDL(DL=1.0)	6.0 Max	NALRC/SOP/AIR-19 2022
8	Nickel as Ni	$\mu g/m^3$	BDL(DL=0.01)	0.02Max	IS 5182: Part 26: 2020
9	Ozone as O3	$\mu g/m^3$	BDL(DL=2.0)	100.0 Max	IS 5182: Part 9: 1974 (RA 2019)
10	Carbon Monoxide	mg/m^3	BDL(DL=0.0)	4.0 Max	IS 5182: Part 10: 1999 (RA 2019)
11	Benzene (C6H6)	$\mu g/m^3$	BDL(DL=5.0)	5.0 Max	IS 5182: Part 11: 2006 (RA 2022)

Note: Max: Maximum, BDL: Below Detection Limit, DL: Detection Limit.
Remarks: The sample meets to NAAQS limits for above tested Parameters.

*** * * * End of the Report* * * * ***

NAL LABS LLP Bangalore-58

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TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Embassy Manyata Business Park, Nagawara Outer Ring Road, Bangalore – 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2565
Product or Material	Ambient Monitoring	Report No	NAL/2026/05509
Particulars of Sample	Ambient Air Quality Monitoring	Date of Monitoring	21.02.2026
Sampling Point	**Near Security Gate - 1**	Date of sample Receipt	21.02.2026
Sampling done by	Mr.Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

ENVIRONMENTAL CONDITIONS			
Ambient Temperature(°C)	32.0	Humidity (%):	47.0
Climate:	Clear Sky	Wind Flow:	Normal

DETAILS OF INSTRUMENT USED		
Instrument Name:	PM 2.5 Fine Particulate Sampler	PM 10 Respirable Dust Sampler
Make & Model	ETCL APM - 172 mini	ETCL/ APM-415 BL
Sl No	104-DTA-2024	158- DTA-2027
Calibrated Date	08.07.2025	08.07.2025
calibration due Date	07.07.2026	07.07.2026

AMBIENT MONITORING TEST RESULTS

SL. NO	PARAMETER	UNIT	RESULTS	LIMITS AS PER NAAQS STANDARD	METHOD
1	Benzo (a) Pyrene	ng/m^3	BDL(DL=1.0)	1.0 Max	IS 5182: Part 12: 2004 (RA 2019)

Note: Max: Maximum, BDL: Below Detection Limit, DL: Detection Limit.
Remarks: The sample meets to NAAQS limits for above tested Parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore-58

Lalitha Kumari H
Technical Manager
Authorized Signatory

Dust Mitigation Practices

FY 25-26	DESCRIPTION/BLOCKS	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26
WATER SOURCE	Tanker water in KL	16906.22	19415.93	20263.83	18947.54	20641.11	21218.62
	Bore well water in KL	16337.24	17315.18	17073.26	16557.03	15335.5	15639.87
	Rain water intake in KL	286.2	0	0	0	0	10
	Total Raw water in KL	33529.66	36731.11	37337.09	35504.57	36477.05	36868
WTP TREATMENT	WTP Treated water in KL	31287.53	33401.76	34726.96	32726.48	33852.08	34712
	Treatment Loss for salt regeneration and Softner backwash in KL	2183.234	3281.217	2914.588	2798.492	2537.994	2128
	Treatment Loss for Screen filter/Sand Filter Backwash in KL	94.52	122.72	137.85	96.95	95.657	104
	% Treatment loss	#DIV/0!	7%	#DIV/0!	6%	#DIV/0!	#DIV/0!
WTP WATER UTILIZATION	WTP Treated water used for Domestic purpose in KL	27520.63	28412.55	29626.36	28283.74	29687.28	31105
	WTP treated water usage for Flushing in KL	22	1780.874	1705.358	1828.32	2126	1055
	WTP treated water usage for Gardening in KL	36	31	33	36	104	40
	WTP treated water usage for HVAC in KL	2057.9	1472.34	1581.25	1501.9	1450.8	2235
	WTP treated water usage for cleaning (Basement, MBR/ UF/RO, Tanks, Pump room) in KL	60	54	53	36	24	26
	WTP treated water usage for Water body in KL	417	322	306	333	271	308
STP TREATMENT	In-flow to STP in KL	50574.72	49850.02	51283.23	53502.68	54208.75	60802
	Out-flow of STP in KL (After tertiary treatment to Final tank)	47472.03	50127.74	47686.12	50050.15	50784.01	56415.37
	Treatment Loss in KL	3102.69	-277.72	3594.09	3452.527	5091.74	4389
	% Treatment loss	3%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
STP WATER UTILIZATION	STP treated water usage for Flushing in KL	23353.11	26470.61	25298.41	24477.27	23865.13	28549
	STP treated water usage for Gardening in KL	5423.472	6449.723	6384.728	6128.432	6247.915	6237
	STP treated water usage for HVAC in KL	3534.012	3751.198	2929.128	2972.081	4105.579	5153
	STP treated Water Used for cleaning (Basement,MBR/ UF/RO, Tanks, Pump room) in KL	1325.835	1174.666	2052.358	2035.362	1709.713	1802
	STP treated water used for softner regenration inside STP in KL	23	18	40	17	21	25
	STP treated water usage for Water body in KL	0	0	0	0	0	0
	STP treated usage back wash consumption Screen/Disc filter/ACF	4.68	3.48	1108.16	611.29	1027.1	2964
TOTAL WATER INTAKE VS UTILIZATION	Total Water Taken for Consumption (WTP INLET + STP INLET)	80913.55	83910.52	88482.11	89007.25	89785.8	97671
	Total Treatment loss in KL	9883.094	3126.217	6646.528	6347.969	7725.391	6620
	Total non recycled water in KL	11765.4	13272.93	13379.46	13059.78	13934.01	15826
	Total recycled water in KL	50493.77	#VALUE!	57738.28	55200.63	56705.51	63673
WATER FOOT PRINT	Built up area (SFT) STD Conptn. Bench marck (KL)	12304709	13131577	13716336	12829594	13090436	**13960763**
	Total Water Consumption in KL	866124	71319.19	72539.75	68967.92	70828.52	**79442**
	Actual Consumption Ltr/SFT against 10ltr/SFT	125.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
% OF CONSUMPTION	Tanker water usage in (%)	36%	28%	26%	#DIV/0!	#DIV/0!	23%
	Bore well water usage in (%)	26%	26%	24%	#DIV/0!	#DIV/0!	22%
	Rain water intake in KL	1%	0%	0%	#DIV/0!	#DIV/0!	0%
	STP treated water usage in (%)	49%	51%	50%	#DIV/0!	#DIV/0!	54%
	Total Water Consumption in (%)	99%	105%	100%	#DIV/0!	#DIV/0!	100%

Block wise photos of dual pipe plumbing (Drinking, cooking and bathing etc,…)

BUILDING RELATIONSHIPS.
ENRICHING LIVES.

EMBASSY REIT
EMBP
Nov-25-2021

NXT1 AND NXT2

C1 BLOCK

C2 BLOCK

C4 BLOCK

D1D2 Parcel

D3 Parcel

D4 Block

F2 Block

F3 Block

E1 Block

E2 Block

G1 Block

G2 Block

G3G6 Block

G4 Block

H1 Block

H2 Block

L3 Block

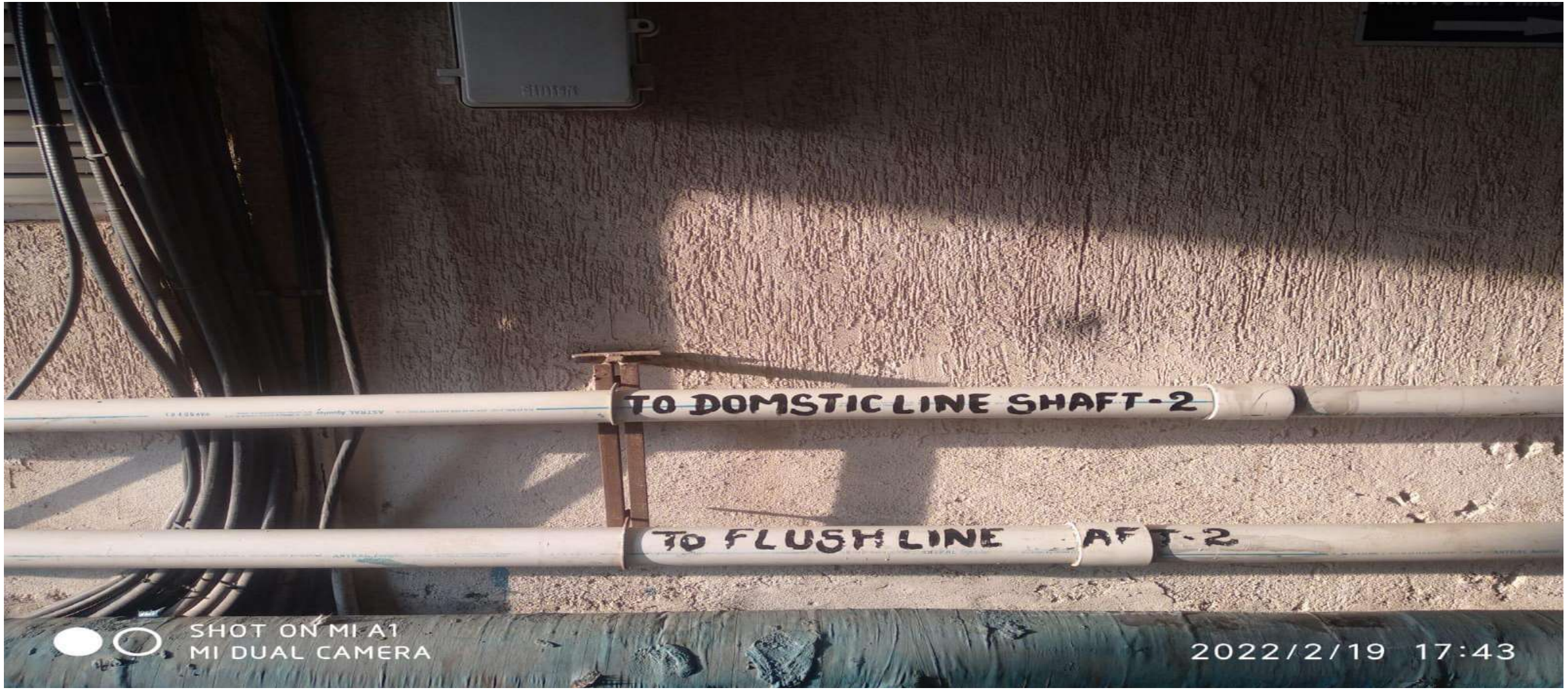
L1 Block

L2 Block

L5 BLOCK

L6 BLOCK

N1 BLOCK


TO DOMSTIC LINE SHAFT-2
TO FLUSH LINE AFT-2
SHOT ON MI A1
MI DUAL CAMERA
2022/2/19 17:43

INDIVIDUAL BLOCK SENSOR BASED WASH BASIN, REST ROOM,…ETC.., DETAILS

BUILDING RELATIONSHIPS.
ENRICHING LIVES.

EMBASSY REIT
EMBP
Nov-25-2021

NXT1 & NXT2 SENSOR BASED WASH BASIN, REST ROOM ETC…

C1 BLOCK SENSOR BASED WASH BASIN

C2 BLOCK SENSOR BASED WASH BASIN

C4 BLOCK SENSOR BASED WASH BASIN

E1E2 BLOCK SENSOR BASED WASH BASIN

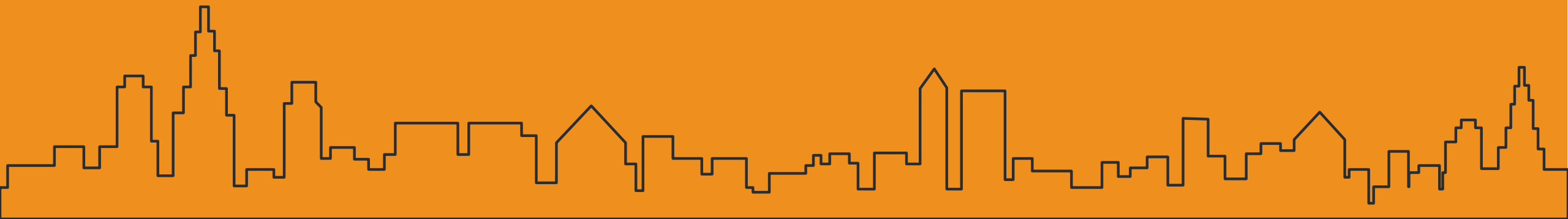
F2F3 BLOCK SENSOR BASED WASH BASIN

G1G2 BLOCK SENSOR BASED WASH BASIN

G3 BLOCK SENSOR BASED WASH BASIN

N1 BLOCK SENSOR BASED WASH BASIN, REST ROOM ETC…

THANK YOU



REPORT ON SEWAGE TREATMENT PLANTS (STPs) PERFORMANCE EVALUATION OF EMABASSY MANYATA BUSINESS PARK, BENGALURU

Prepared by

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Table of Contents

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1. Abstract

On 5th May 2022, the Sewage Treatment facilities of the 21 Units of EMABASSY MANYATA BUSINESS PARK, Embassy Services Pvt. Ltd at Bengaluru were inspected and evaluated to assess the performance of the facility for meeting the standards stipulated by Karnataka State Pollution Control Board. Design data with scheme from each of the major unit operations and processes was perused and the performance of the treatment units was examined. The treatment scheme provided have exhaustive treatment system consisting of Primary treatment units of Coarse and Fine bar screens, Oil and Grease traps with combinations of Suspended, Attached growth Aerobic process such as Activated sludge process (ASP), Sequential Batch reactor (SBR), Moving bed bio reactor (MBBR) and Membrane bio reactor (MBR) with followed by tertiary treatment such as pressure sand, activated carbon filter and in some of the plants with ultrafiltration system for reducing organic suspended and colloidal impurities in the form of BOD and COD of STP plant. All the STP plants are having one working and one standby pumping and air blower systems in any event of mechanical and electrical failures. The entire system has connected with alternate power supplies as back up for uninterrupted operation of the STPs. The facilities also have their basic in-house laboratories for day-to-day monitoring performance of the STP such as pH, Imhoff cone to record the MLSS and most of the parameter are recorded in system maintained log book for each plants. The STP operation and maintenance records were perused to ascertain the performance. The facilities also have dedicated qualified Environmental Engineer, Maintenance Engineers, and Chemists to understand the different process technologies, monitor and efficiently operate the plants to meets the regulatory requirements and as well as the natural resource conservation. There is an exclusive maintenance crew consisting of Mechanical Engineers, Electrical Engineers, and Instrument Engineers for upkeep of equipment and its systems to support the operation and maintenance Environmental engineering team.

Considering these dimensions, the STP facilities were evaluated for their effectiveness and found that the STP facilities are adequate and effectively performing for the treated effluent to consistently meet the standards prescribed

by the Karnataka State Pollution Control Board vide their Consent Order for the current Product and Capacity.

The company Embassy Manyata Business Park entrusted the study to B.M.S. College of Engineering, Bengaluru to evaluate the performances of different STP running in different blocks of the tech park. Accordingly, this performance evaluation study was taken up. EMABASSY MANYATA BUSINESS PARK was visited on 05th May 2022. Composite and grab samples were collected from various stages of the unit operations of the ETPs and got analysed at NABL accredited lab approved under EP Act, 1986 for detailed physico-chemical and biological parameters and to characterise the effluent streams as well as the performance of each unit operation for its effectiveness. Each unit of ETPs is provided with a specific purpose of reducing certain pollutants were observed and found to be performing as per the design and requirements. Therefore, the parameters were selected based on the expected outcome from each unit operation so that the efficiency/the performance of individual unit and the overall performance could be evaluated. The results indicate that the individual unit as well as the overall performance of the ETP are on expected lines giving the desired efficiency and the final treated effluents are meeting the stipulated urban reuse standards for secondary purposes such as Toilet flushing, Development of greener and tree plantation within the park and as well as reuse of treated sewage to water cooled chiller cooling tower makeup standards with zero liquid discharge standards.

2. Preamble:

M/s. Manyata Promoters Pvt. Ltd., (MPPL) is a pioneering real estate development firm with a vision to create quality infrastructure across residential, commercial, and mixed-use developments in India. Several Fortune 500 companies have located their businesses at Manyata Tech Park which is Bangalore's first and largest operational SEZ that prides of bringing the live-work-play concept to life in India.

The present proposal is Modification and Expansion of "Embassy Manyata Business Park" at Rachenahalli and Thanisandra Villages of K R Puram Hobli, Bengaluru East Taluk and Nagawara Village, Kasaba Hobli, Bengaluru North Taluk, Bengaluru. Now MPPL is intend to redevelop the some of the buildings and as per the earlier Environmental conditions the existing STP are to be verified for its performances.

Embassy Services Pvt Ltd (ESPL) was founded in 1995 as an independent arm of the Embassy Group, initially to cater Property Management services to its owned legacy properties. Today, ESPL provides Integrated Facility Management services to over 170 clients within and outside the Embassy group portfolio across various verticals of the real estate in commercial, residential, industrial & warehousing, co-working, retail, hospitality and education. Providing operational excellence across 71+ Million Sq. Ft pan-India, we are one of the largest and most trusted Integrated Facilities Management organizations in the country.

Embassy Manyata Business Park, a flagship asset, is one of the largest business parks in the country. It is in North Bengaluru, a prominent growth corridor, which connects the international airport to the city centre. The park has a completed area of 11.8 msf and offers an integrated "business ecosystem" to its occupiers. It houses 68 tenants with more than 100,000 park users.

The Embassy Manyata Business Park had obtained the Environmental Clearance (EC) for implementing the project from time to time. Consent to Operate from Karnataka State Pollution Control Board is also obtained. Now, the project proponents intend to Modify and Expand the project and obtain Environment Clearance.

There are 36 different buildings units have independent varying capacity Sewage Treatment Plants (STP) and few buildings with combined sewage plant. There are 20 STP and 1 ETP as per the data gathered on verification of records and during the site visit. These sewage treatment plants have been periodically upgraded to treat the sewage to the standards prescribed by Karnataka State Pollution Control Board (KSPCB) and to meet the urban reuse standards for recycle and reuse with in the park.

3. Objective of the Study:

EMABASSY MANYATA BUSINESS PARK, Embassy Services Pvt. Ltd., Bengaluru, approached B.M.S. College of Engineering, Bangalore for performance evaluation study of the Effluent Treatment Plants. The Central Pollution Control Board has identified B.M.S. College of Engineering, Bangalore as one of the institutions to carry out the third-party assessment, vide "Guideline Cum Standard Operating Procedure for Evaluating Third Party Assessment and Institutions identified by CPCB''.

The objective of this report is the evaluation of the performance of the Effluent treatment Plant in meeting the standards prescribed by KSPCB.

4. Visit to the Industry

The Embassy Manyata park were visited on 5thMay 2022 by Prof. Puttaswamy. C.T, Professor, Department of Chemical Engineering, B.M.S. College of Engineering, Bengaluru and Dr. Chetan A. Nayak, Assistant Professor, Department of Chemical Engineering, B.M.S. College of Engineering, Bengaluru

The following officers of the Embassy were present:

1. Mr. V Sachin Govind
2. Mr. Paila Padmanabham
3. Mr. Pramod S R
4. Mrs. Manjula, Senior Env Engineer

The photographs during the visit and sample taken during the visit is as shown in Figure 1, Figure 2 and Figure 3.

Figure 1: Photograph of Embassy Manyata Park STP during the visit on 5th May 2022

Figure 2: Photograph with the Environmental engineers at the site

Figure 3: Photograph of sampling of the treated water on the site

5. Map of the EMBASSY Manyata Business Park

M/s. Manyata Promoters Private Limited (MPPL) i.e. "Embassy Manyata Business Park" Mixed Use Development Project (IT/ITES park, Offices, Commercial, Retail, Hotels & Banquet Hall) at Several Survey numbers of Rachenahalli and Thanisandra Villages of K R Puram Hobli, Bengaluru East Taluk and Several Survey numbers of Nagawara Village, Kasaba Hobli, Bengaluru North Taluk, Bengaluru, Karnataka State and the master plan and its google location with link is depicted in Figure 4 and google map is depicted in Figure 5

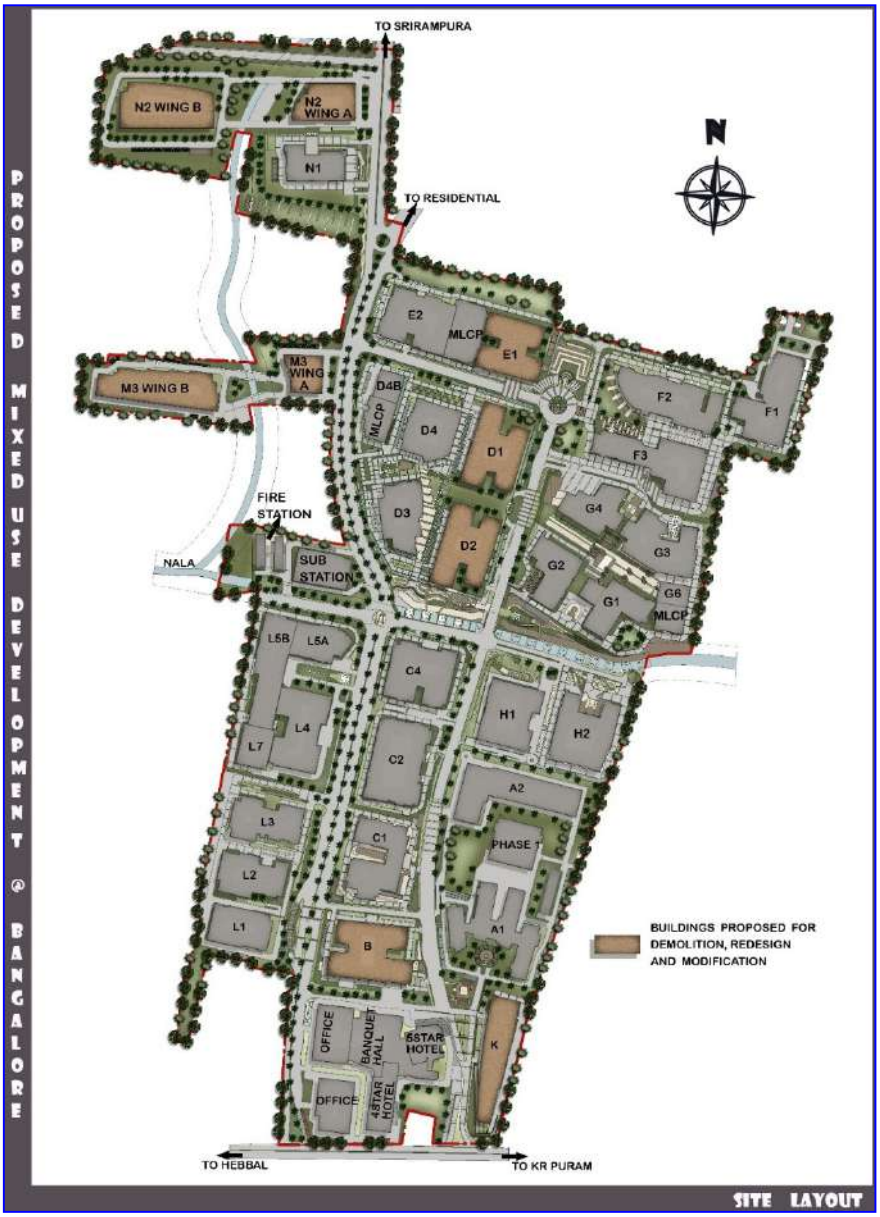

Figure 4: Map of the Embassy Manyata Business Park

Figure 5 : Google map location of Embassy Manyata Business Park

(https://goo.gl/maps/fZ8hc5dBG1ruCYfMA)

6. Basic Design Data and Performance Projections:

The characteristics of raw sewage considered for designing the Sewage Treatment Plant are as shown in Table 1

Table 1: Characteristic of raw sewage with range and average value

Sl. No.	Parameters	Unit	Range	Average Value
1	Flow	m^3/d	Depends on Sewage generation from individual buildings	-
2	COD	mg/L	350 - 550	500
3	BOD	mg/L	250 - 350	300
4	TDS	mg/L	750 - 1000	850
5	TSS	mg/L	250 - 500	350
6	pH		6.5 - 7.5	7.0

It is assumed that raw sewage does not contain any inhibitory substance for the biological process.

7. Performance Guarantee Parameters:

Upon reaching the steady state, the treated raw sewage from the outlet of the plant shall confirm the following characteristics (Table 2) and maximum ± 5% deviation in the influent characteristics.

Table 2: Characteristic of performance parameters with units

S.NO	PARAMETRS	VALUE	UNIT
1.	pH	6.5 to 7.5	
2.	COD	< 50	mg/L
3.	BOD	< 10	mg/L
4.	TSS	<20	mg/L

8. Treatment Scheme:

The raw sewage from various building utilities such as toilet flushing, kitchen and floor wash overflow from the individual occupied office parks is taken to dedicated Sewage Treatment Plant Equalization Tank preceded with Coarse, Fine Bar screen and Oil and Grease separator followed with Biological Aerobic treatments and its combinations such as Extended Aeration Activated Sludge Process, Sequential Batch Reactors (SBR), Moving bed bio reactor 9MBBR) and Membrane bio reactor (MBR) by suitably designed closed conduit conveying systems. The some of the plant designed with Primary treatment, Secondary biological treatment, and tertiary treatment some of them sand, activated carbon filtration and ultrafiltration followed by disinfection with chlorine to maintain the residual chlorine in the treated sewage and to present the further septicity due to residual organic matter in the treated sewage. The treated sewage after meeting the urban reuse standards will be distributed to reuse for toilet flushing, gardening, water cooled cooling tower chillers make up water and floor washing etc. The raw and treated sewage were collected from selected 12 different STP randomly to ascertain the present effectiveness of the unit operations and processes with treatability and analysed for the parameter such as pH, BOD, COD, TSS and TDS. But to check the performance of the plants the pH, BOD and COD values were considered and reported in the Table 3.

The treatment scheme is as per Process flow block diagram submitted is depicted in Figure 6 to Figure 23.

Table 3 EMBP Block wise STP Detail with STP performance

Sl. No.	Block	STP Capacity In KLD	Type of Technology	STP Performance				
				Parameter	Raw Sewage	Treated Sewage	% age efficiency	Urban Reuse Standards
1	Block-B	150	Extended Aeration with tertiary treatment	pH	7.45	7.36	---	6.5-7.5
				BOD	155	5.2	97%	<10
				COD	375	39.2	90%	<50
2	Block-C1	150	Extended Aeration with tertiary treatment	pH	7.12	7.08	---	6.5-7.5
				BOD	176	5.4	97%	<10
				COD	402	43.2	89%	<50
3	Block-C2	450	Extended Aeration with tertiary treatment	pH	7.15	6.68	---	6.5-7.5
4	Block-C3 MLCP			BOD	198	4.8	98%	<10
5	Block-C4			COD	402	35.3	91%	<50
6	Block-D1& D2	400	Extended Aeration with tertiary treatment	pH	7.19	7.05	---	6.5-7.5
7	Block-D3			BOD	201	4.8	98%	<10
				COD	399	39.2	90%	<50
8	Block-D4	350	Extended Aeration with tertiary treatment	pH	7.15	7.09	---	6.5-7.5
	Block-D4 B with			BOD	200	7.8	96%	<10
9	MLCP			COD	410	38.5	91%	<50
10	Block-E1	150	Extended Aeration with tertiary	pH	7.38	7.17	---	6.5-7.5
				BOD	195	7.5	96%	<10
				COD	201	38.2	81%	<50

			treatment & Ultrafiltration					
11 **12**	Block-E2 with MLCP	200	Extended Aeration with tertiary treatment	pH	7.42	7.26	---	6.5-7.5
				BOD	129	5.6	96%	<10
				COD	231	43.1	81%	<50
13	Block-F2	450	Extended Aeration with tertiary treatment	pH	7.56	7.72	---	6.5-7.5
				BOD	113.56	4.8	96%	<10
				COD	315	29.2	91%	<50
14	Block-F3	350	MBR	pH	7.32	7.21	---	6.5-7.5
				BOD	104	8.0	92%	<10
				COD	327	27.89	91%	<50
15 **16** **17** **18**	Block-G1 Block-G2 Block-G3 Block-G6 with MLCP	900	Extended Aeration with tertiary treatment	pH	7.81	7.23	---	6.5-7.5
				BOD	116.0	4.6	96%	<10
				COD	401	35.3	91%	<50
19	Block-G4	200	MBR	pH	7.10	7.25	---	6.5-7.5
				BOD	198	7.5	96%	<10
				COD	389	27.89	93%	<50
20	Block-H1	200	Extended Aeration with tertiary treatment	pH	7.28	7.45	---	6.5-7.5
				BOD	199	6.4	97%	<10
				COD	398	47	88%	<50
21	Block-H2	60	Extended Aeration with tertiary treatment	pH	7.25	7.39	---	6.5-7.5
				BOD	155	6.5	96%	<10
				COD	371	30.1	92%	<50
22 **23**	Block-A1 Block-A2	400	Extended Aeration with	pH	7.18	7.22	---	6.5-7.5
				BOD	139	6.8	95%	<10

			tertiary treatment	COD	400.0	39.8	90%	<50
24	Block-K	100	Extended Aeration with tertiary treatment	pH	7.25	7.31	---	6.5-7.5
				BOD	179.2	5.4	97%	<10
				COD	299.1	39.2	87%	<50
25 **26** **27** **28**	BlockL1 BlockL2 BlockL3 with MLCP	600	Extended Aeration with tertiary treatment and Ultrafiltration	pH	7.29	7.48	---	6.5-7.5
				BOD	158	5.2	97%	<10
				COD	355	39.2	89%	<50
29 **30** **31**	Block-L5 Block-L6 Block-L7 with MLCP	600	Extended Aeration with tertiary treatment	pH	7.17	7.20	---	6.5-7.5
				BOD	159	5.5	97%	<10
				COD	309	28.1	91%	<50
32	Block - N1	200	MBBR with tertiary treatment	pH	7.29	7.43	---	6.5-7.5
				BOD	190	5.2	97%	<10
				COD	375	43.1	89%	<50
33 **34**	Block – P1 Block – P2 **(NXT-1 & NXT-2)**	400	SBR with tertiary treatment and Ultrafiltration	pH	7.22	7.24	---	6.5-7.5
				BOD	152	5.6	96%	<10
				COD	329	44.4	87%	<50
35 **36** **37**	Block – P3 Block – P4 Block – P5-	550 & 65 ETP	MBBR with tertiary treatment and Ultrafiltration	pH	7.29	7.31	---	6.5-7.5
				BOD	179	7.1	96%	<10
				COD	359	30.7	91%	<50

9. Flow Chart and the Photographs of the STP at the site

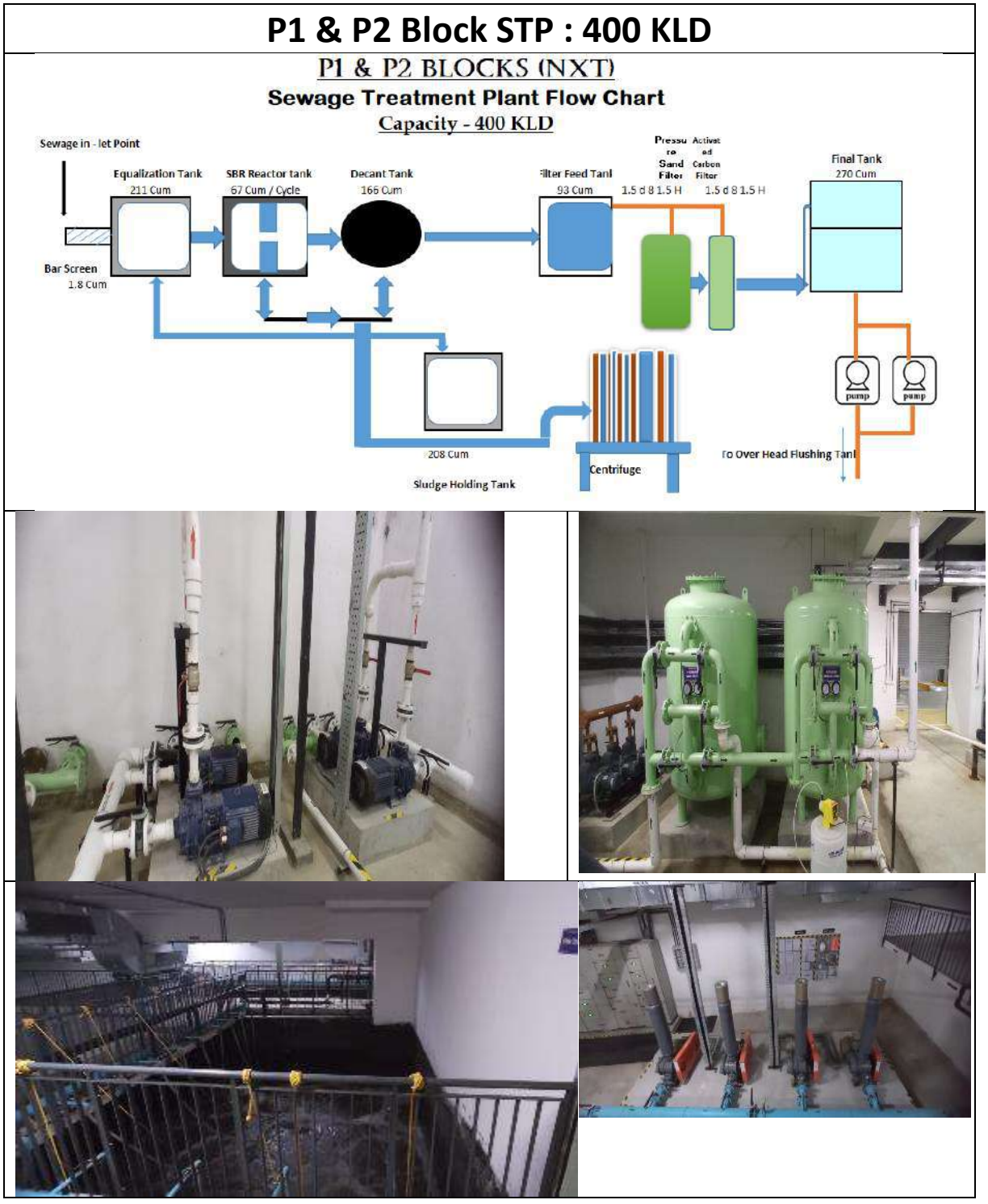

Figure 6: Flow chart and photograph of the P1 & P2 Block STP 400 KLD

P3, P4 & P5 Block (NXT) STP : 550 KLD + 65 KLD ETP

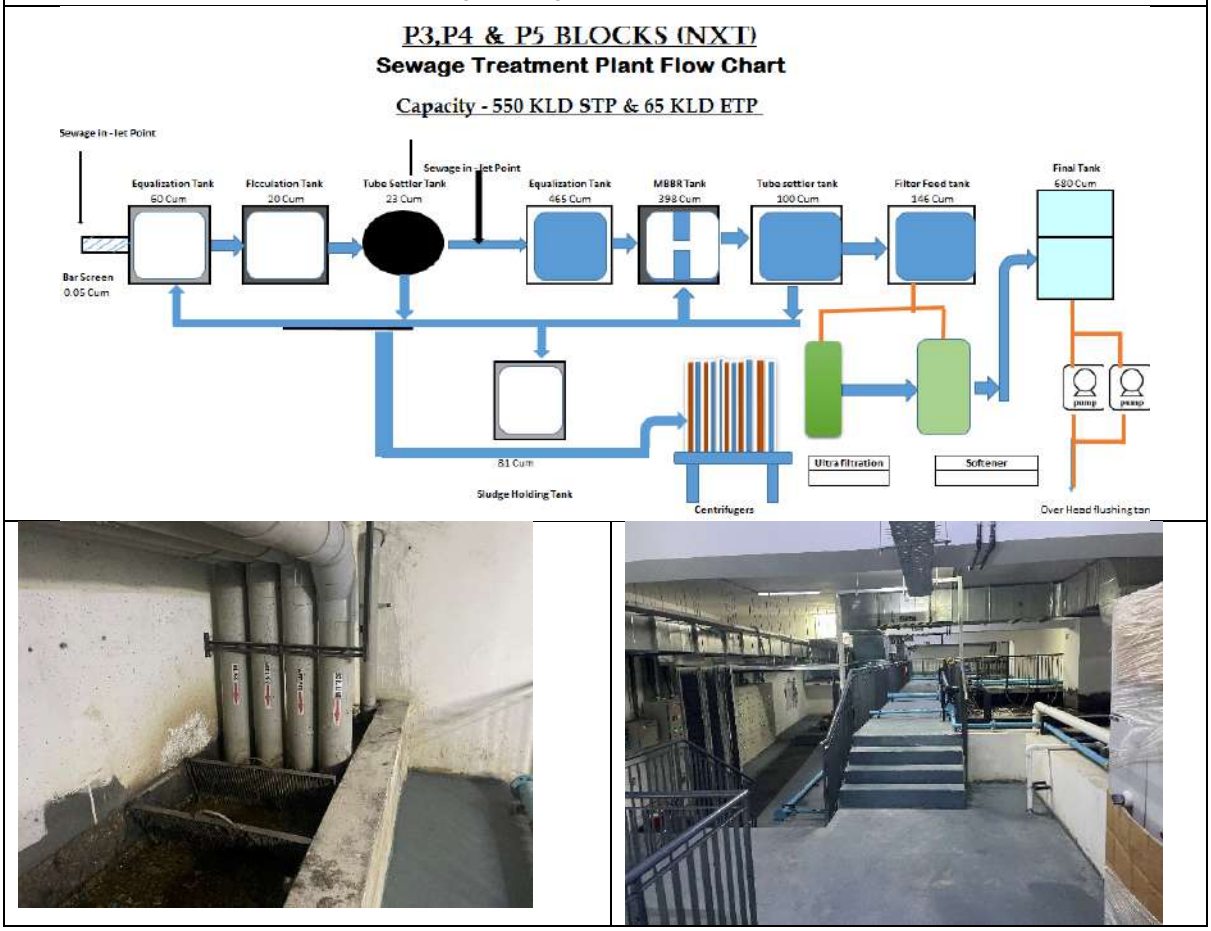

Figure 7: Flow chart and photographs of the P3, P4 & P5 Block (NXT) STP : 550 KLD + 65 KLD ETP

B Block STP: 150 KLD

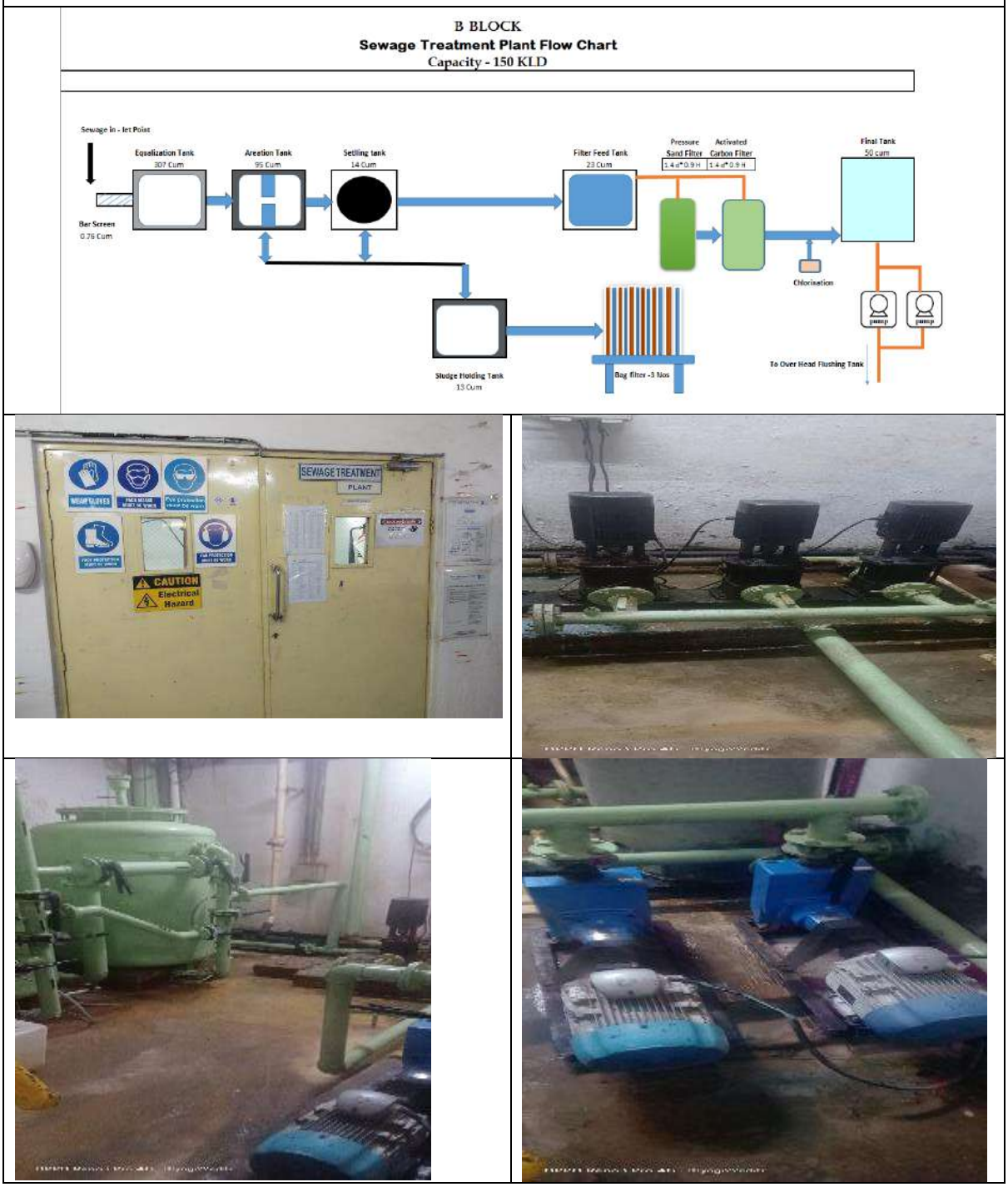

Figure 8: Flow chart and photographs of the B Block STP: 150 KLD

C1 Block STP: 150 KLD

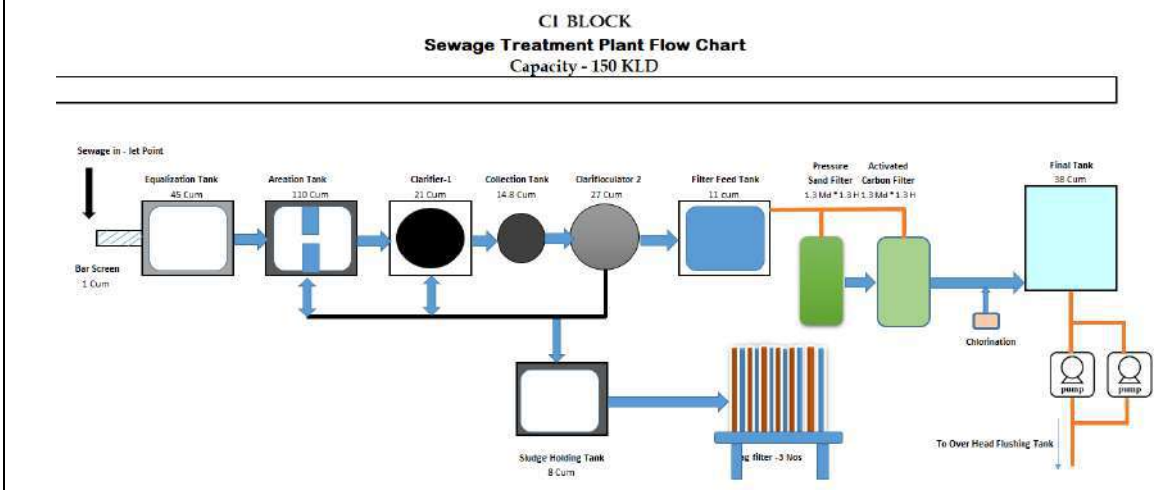

Figure 9: Flow chart and photographs of the C1 Block STP: 150 KLD

C2, C3 & C4 Block STP: 450 KLD

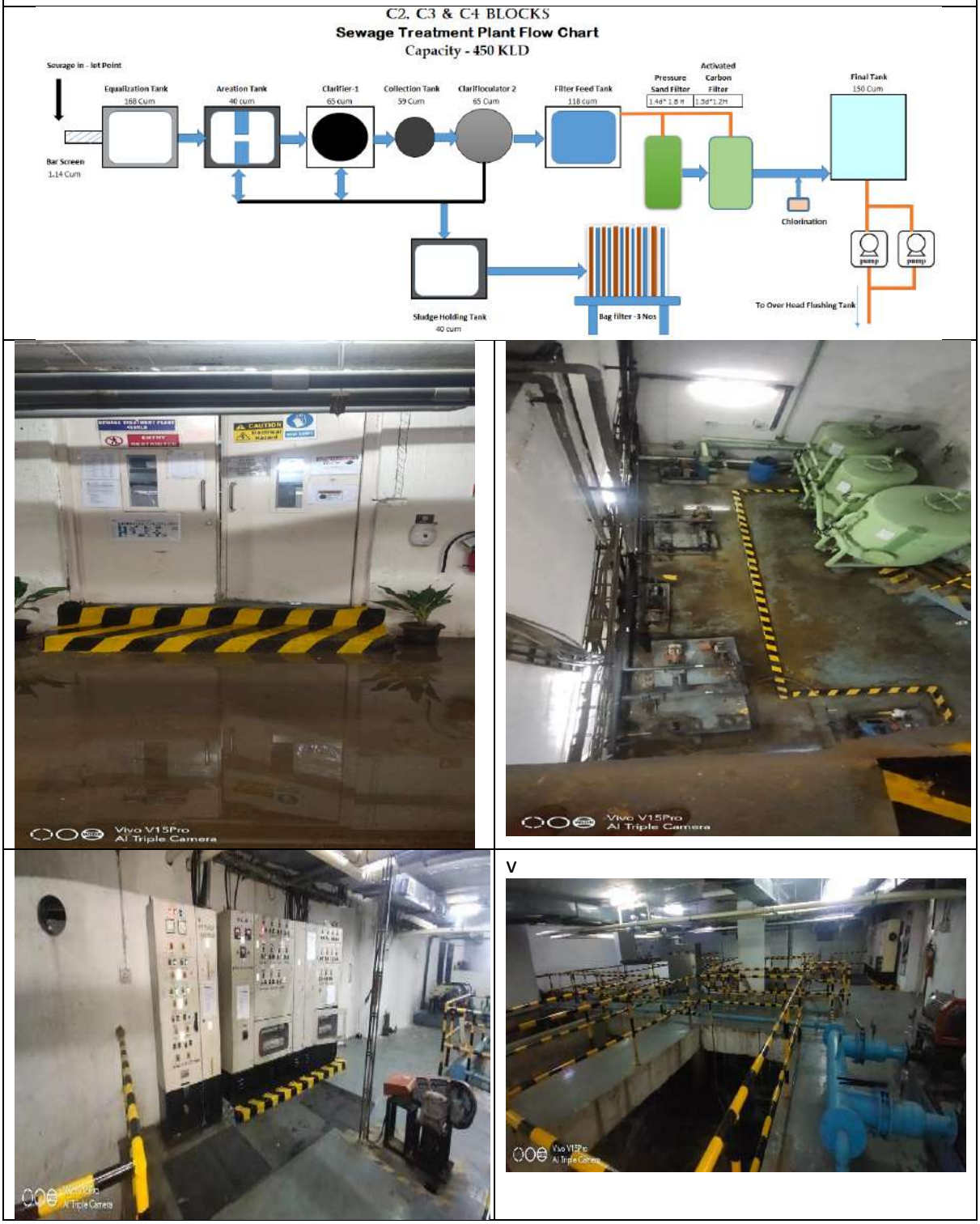

Figure 10: Flow chart and photograph of the C2, C3 & C4 Block STP: 450 KLD

D1, D2 & D3 Block STP : 400 KLD

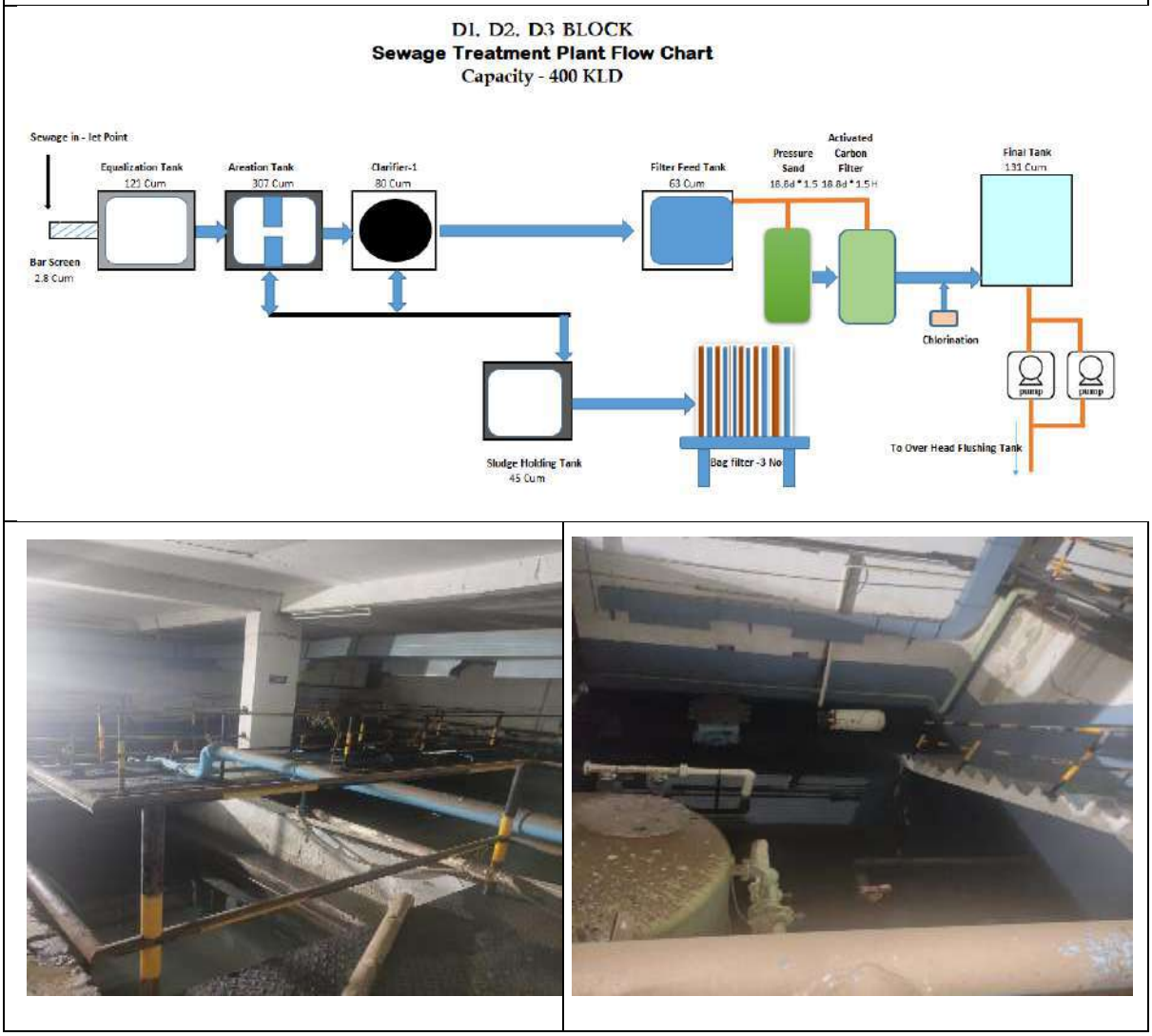

Figure 11: Flow chart and photograph of the D1, D2 & D3 Block STP : 400 KLD

D4 Block STP : 350 KLD

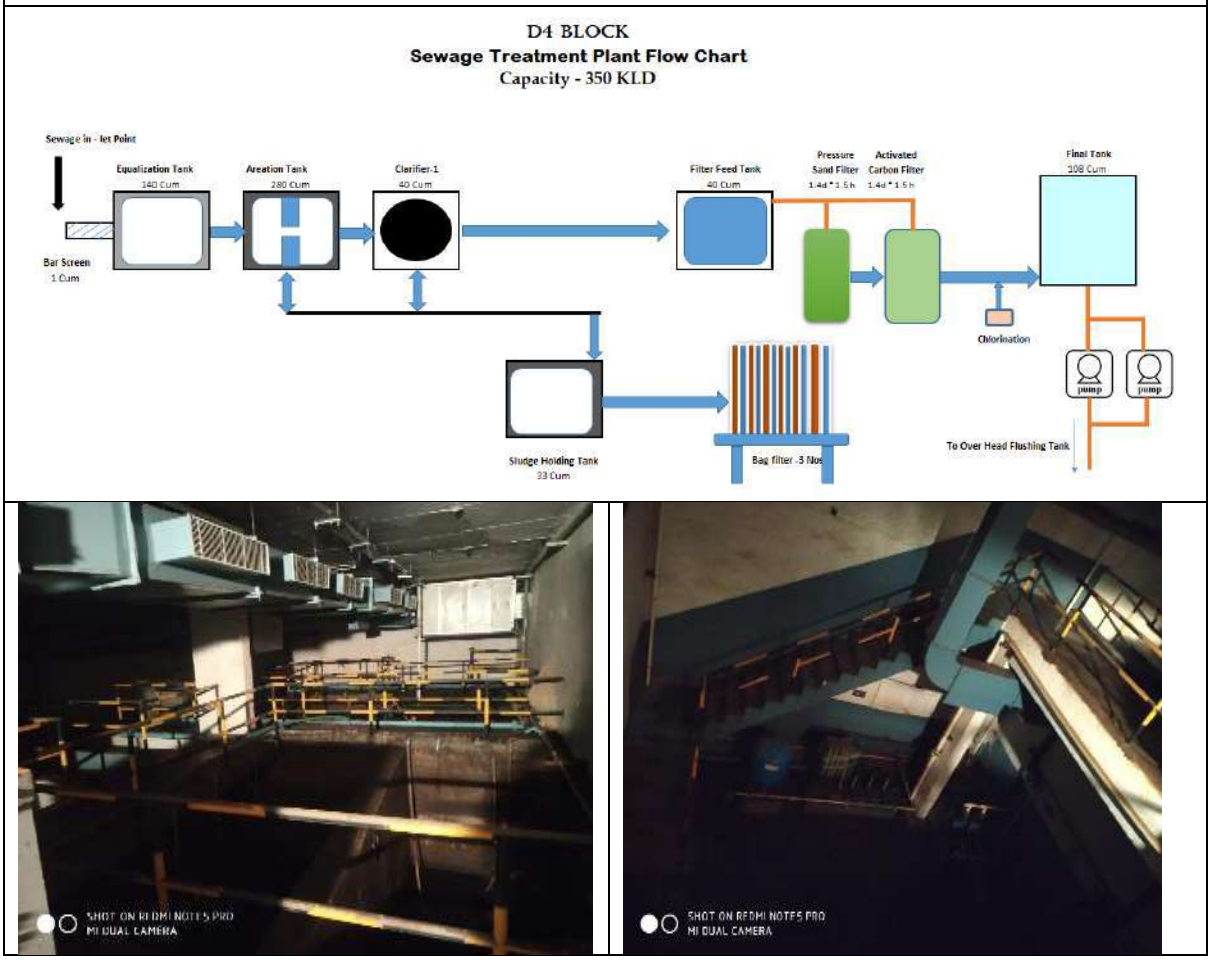

Figure 12: Flow chart and photograph of the D4 Block STP : 350 KLD

E1 Block STP: 150 KLD

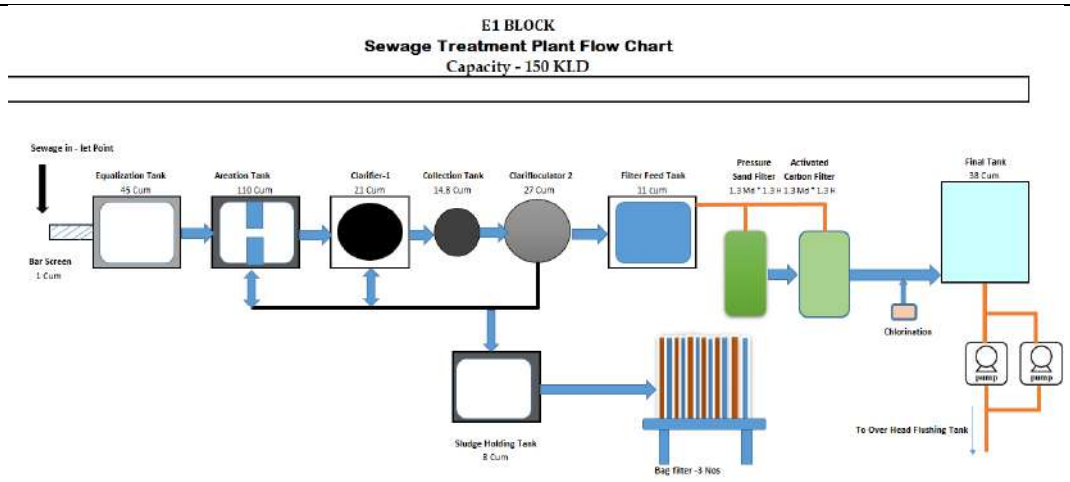

Figure 13: Flow chart and photograph of the E1 Block STP: 150 KLD

E2 Block STP : 200 KLD

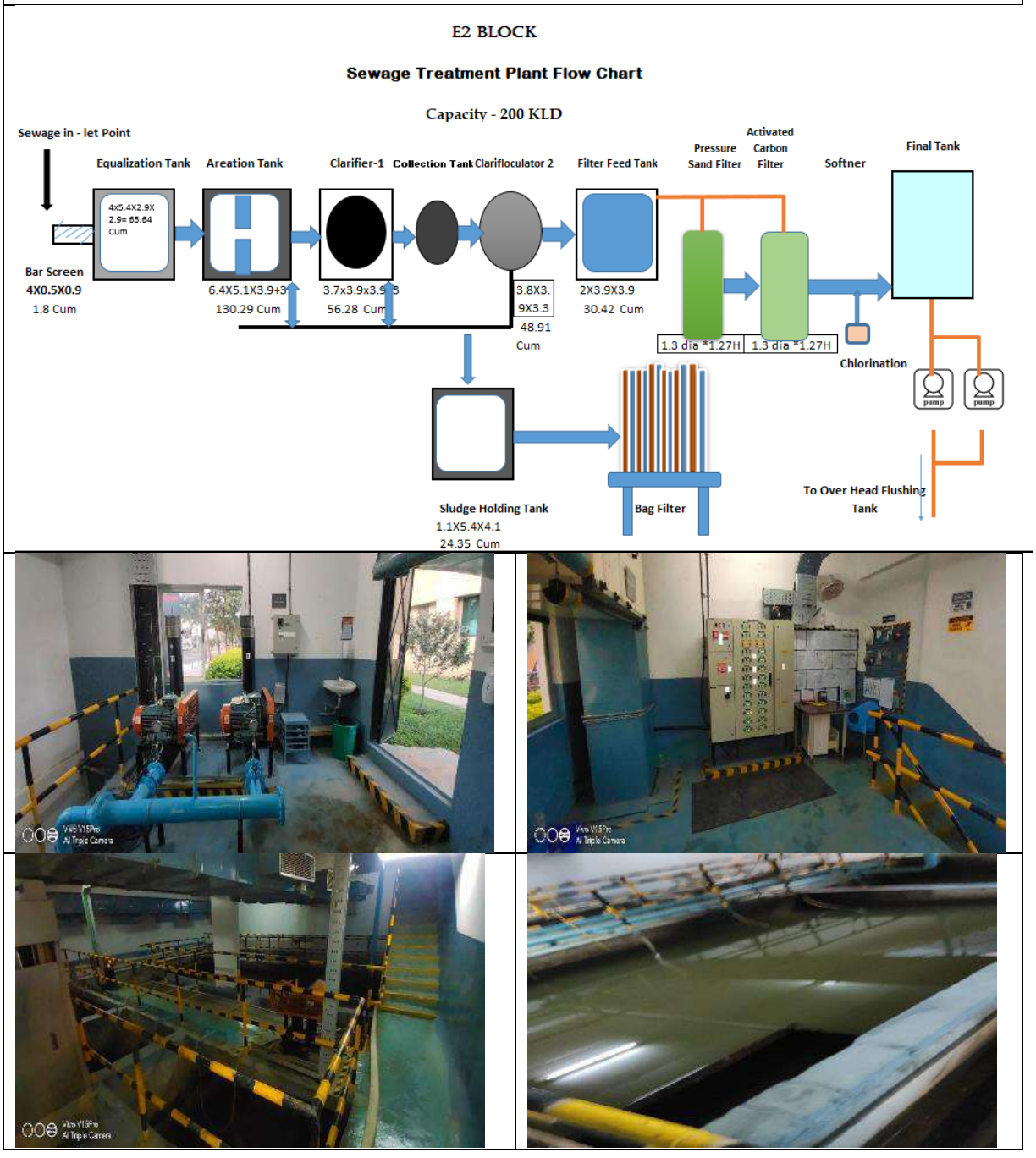

Figure 14: Flow chart and photograph of the E2 Block STP 200 KLD

F2 Block STP: 450 KLD

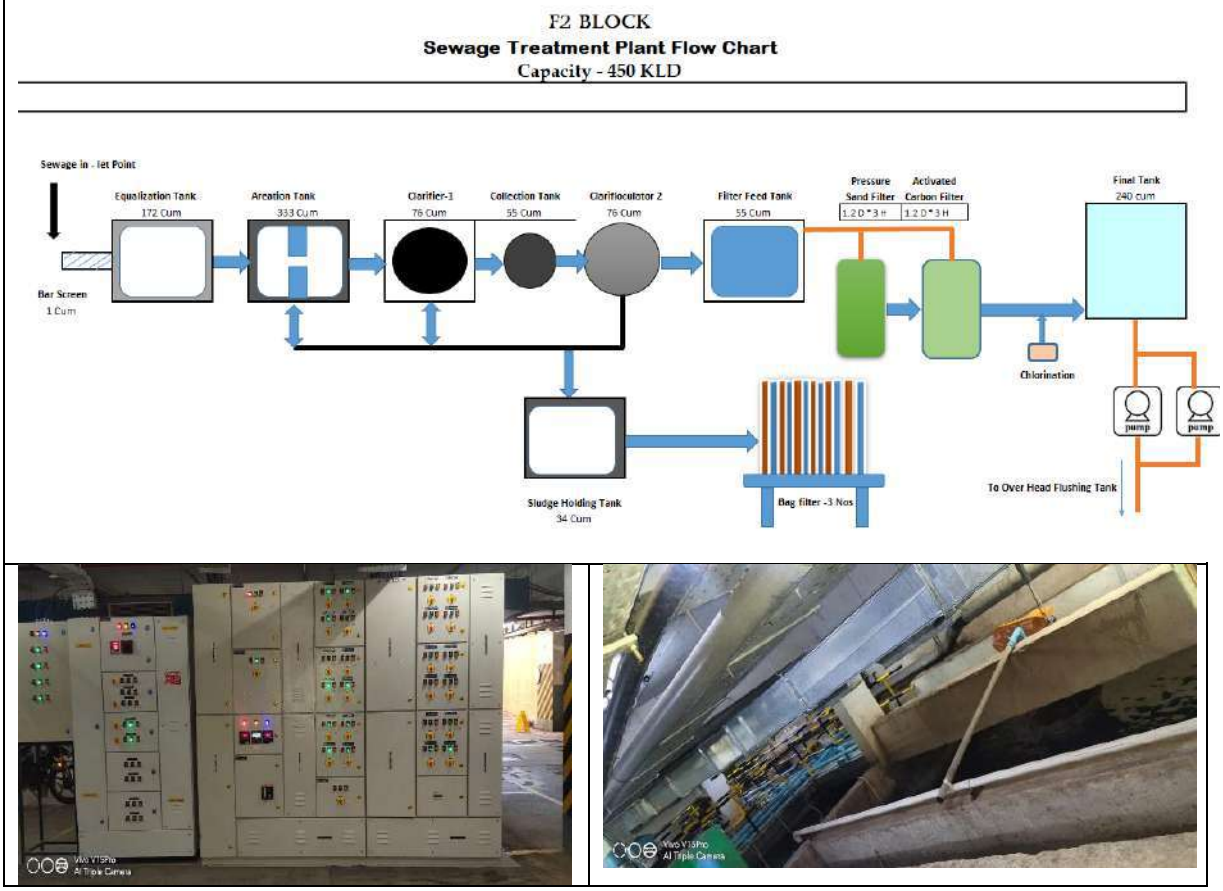

Figure 15: Flow chart and photograph of the F2 Block STP 450 KLD

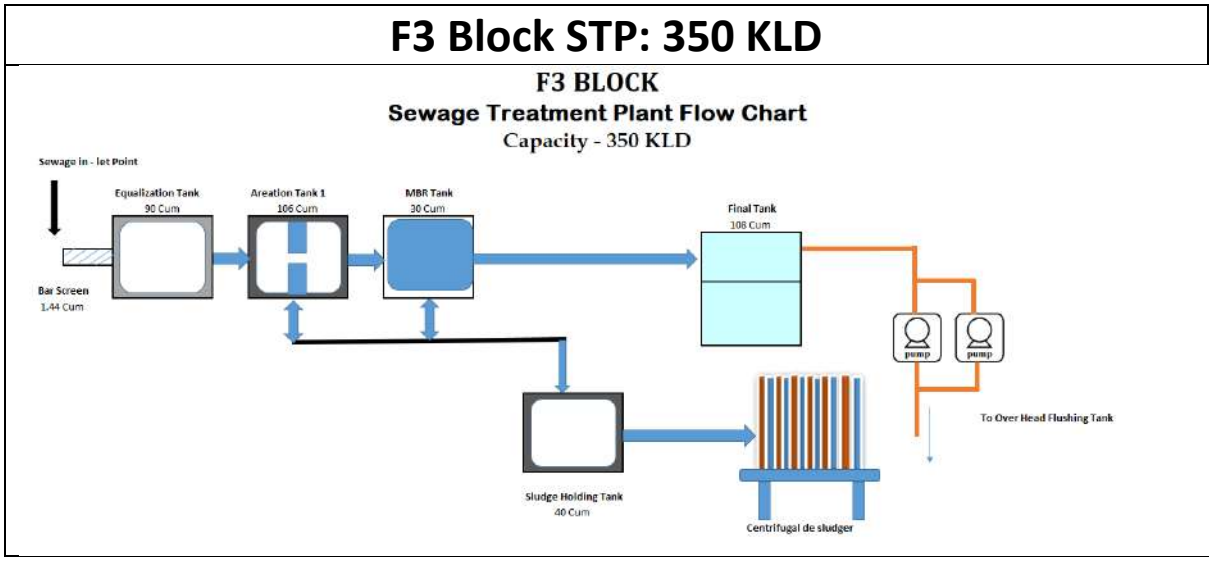

Figure 16: Flow chart of the F3 Block STP 350 KLD

G1, G2, G3 & G6 block STP Capacity: 900 KLD

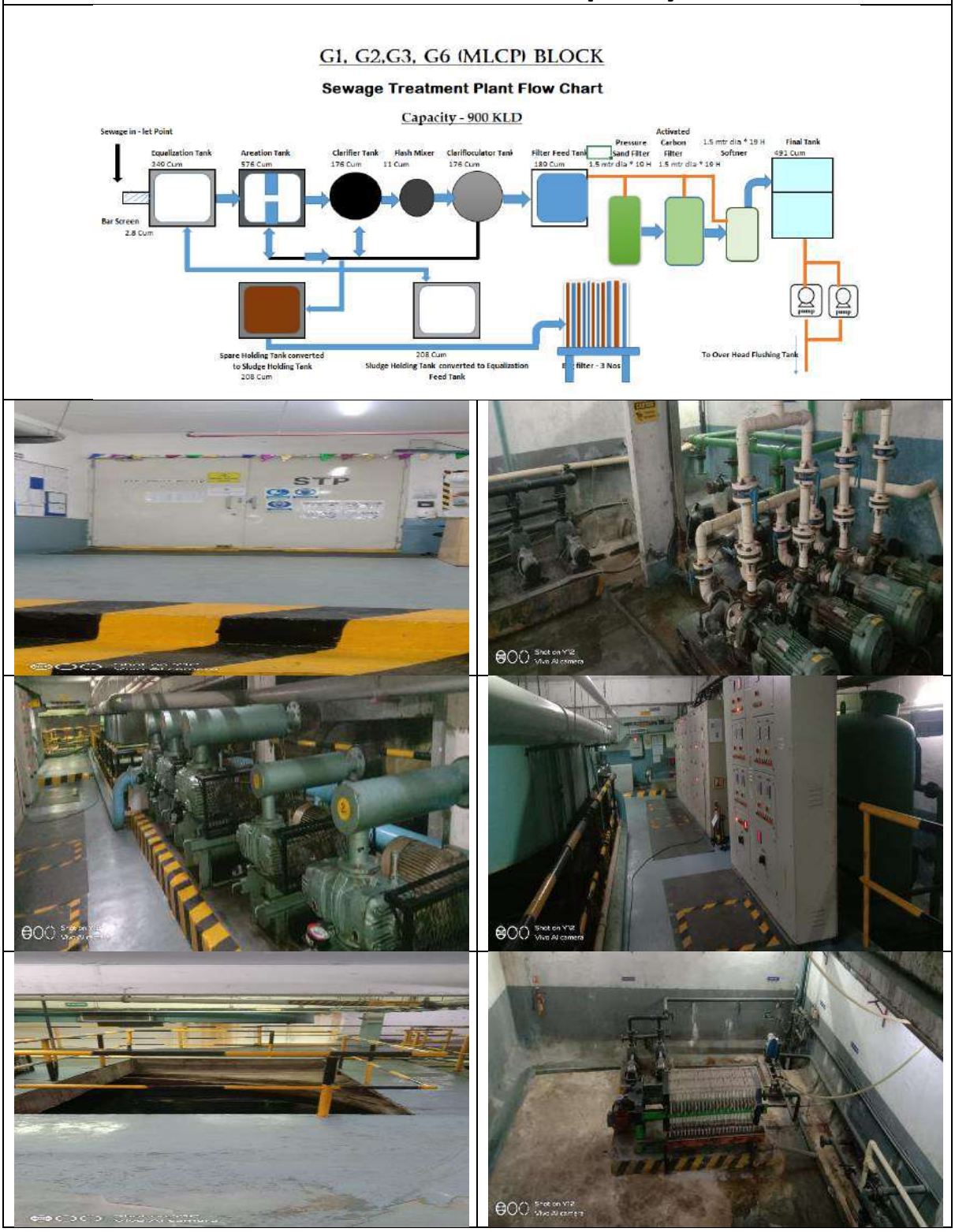

Figure 17: Flow chart and photograph of the G1, G2, G3 & G6 block STP Capacity: 900 KLD

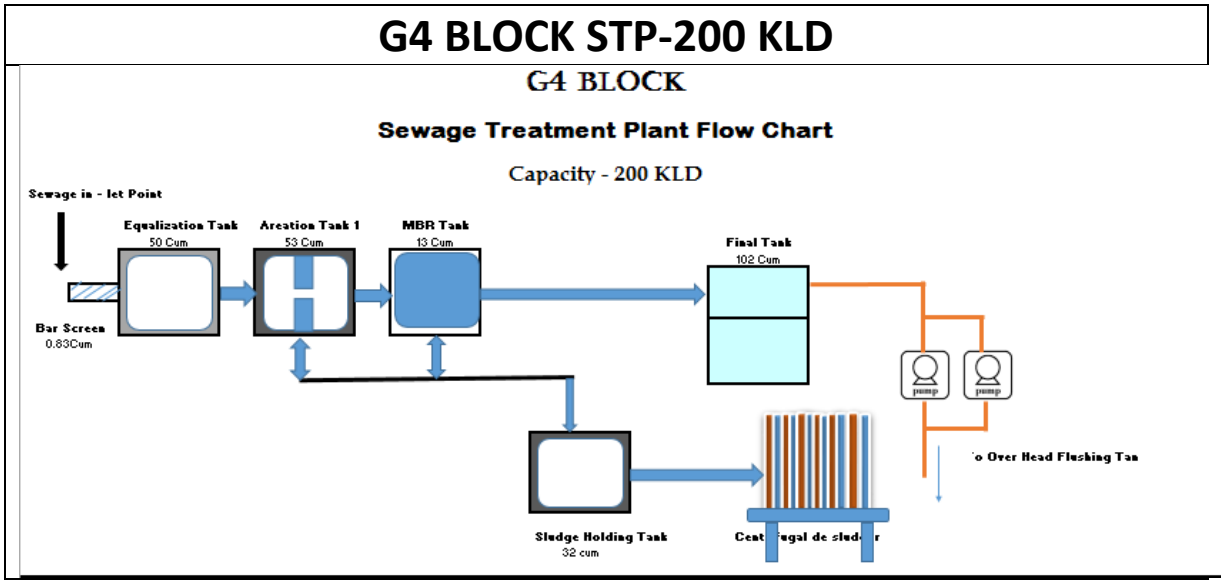

Figure 18: Flow chart of the G4 Block STP 200 KLD

H1 & H2 BLOCK STP-200 KLD & 60 KLD

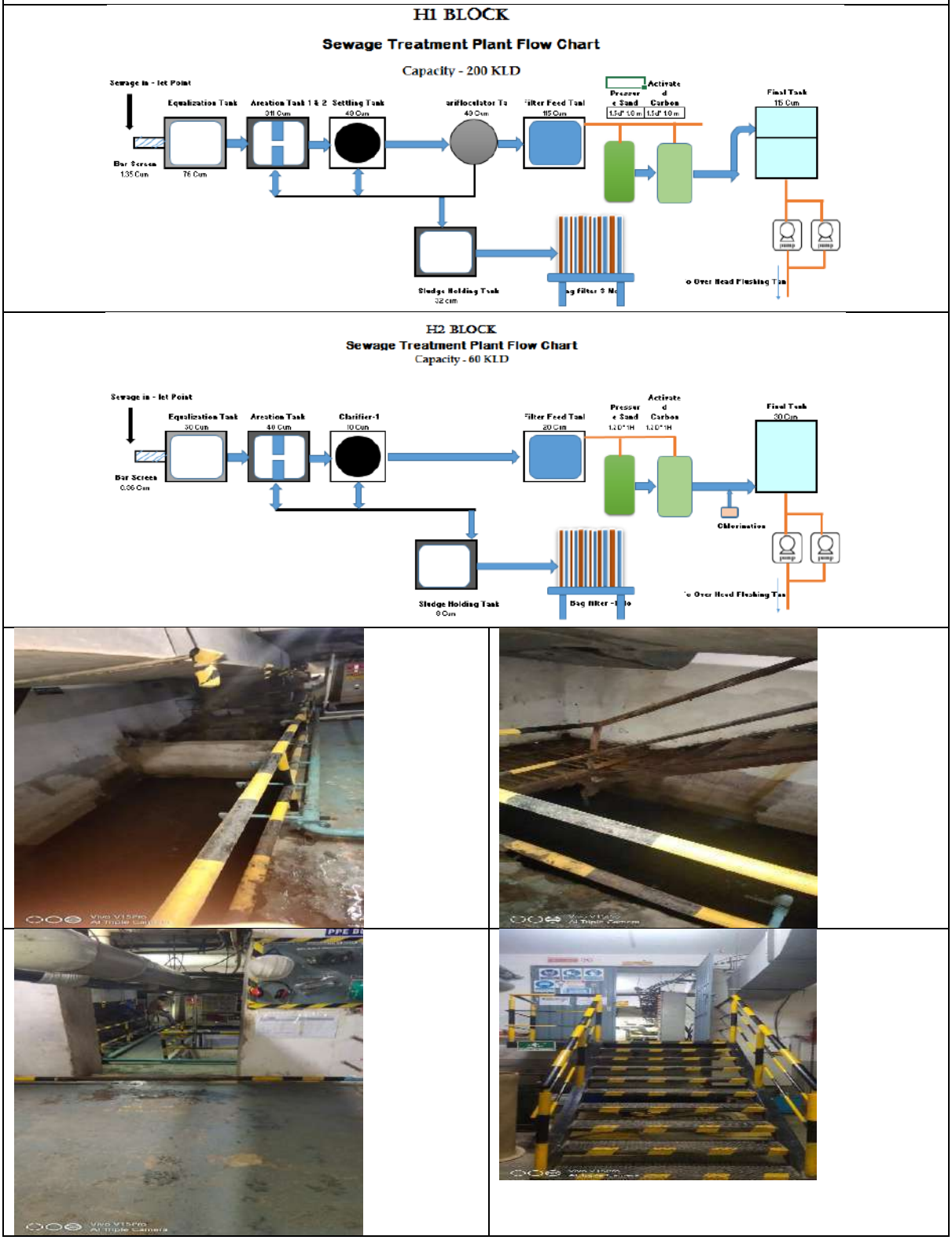

Figure 19: Flow chart and photograph of the H1 & H2 BLOCK STP-200 KLD & 60 KLD

M3 (PARCEL- 2) BLOCK

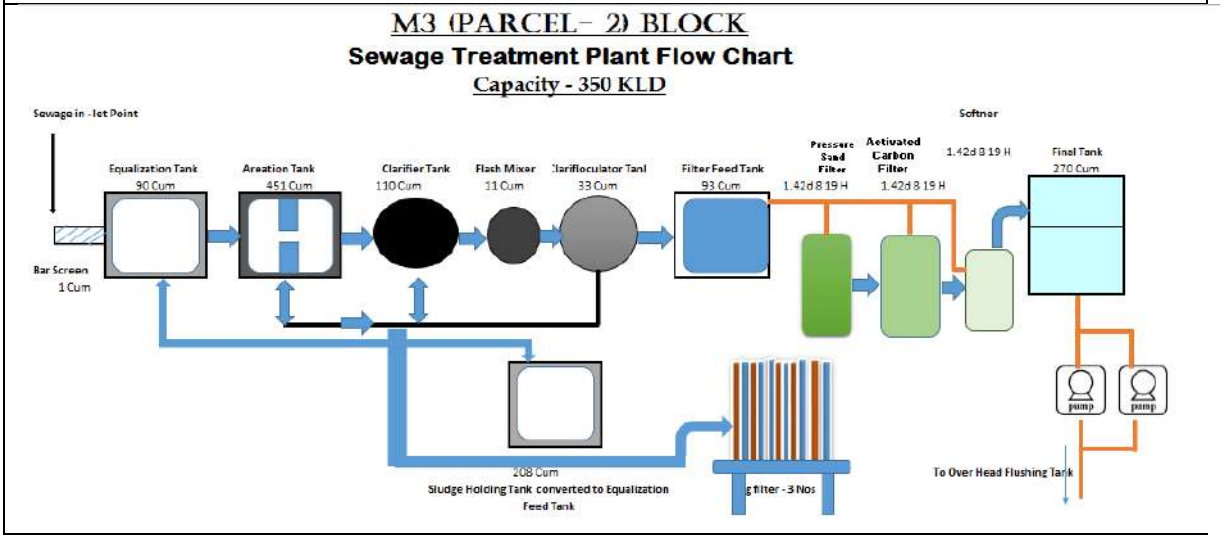

Figure 20: Flow chart of the M3 Block STP 350 KLD

K Block STP: 100 KLD

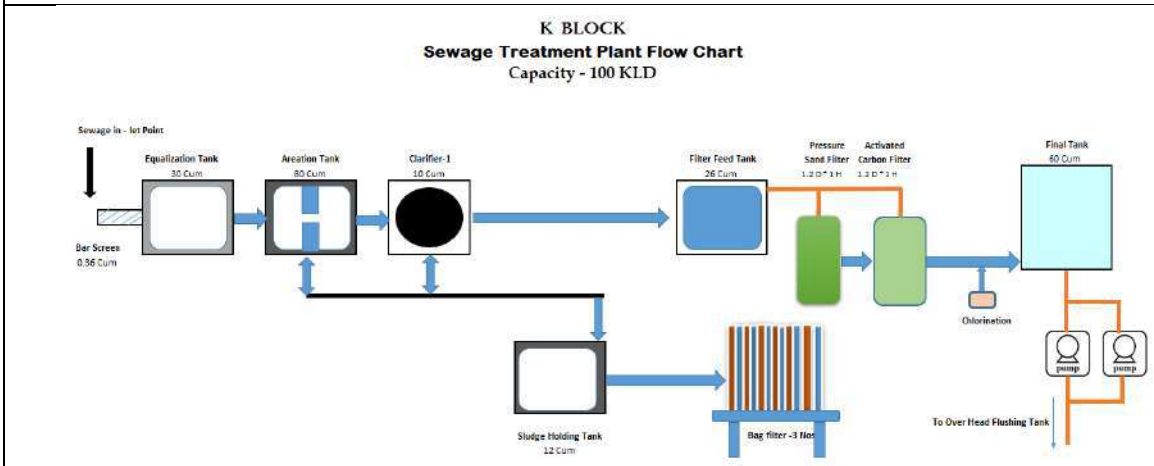

Figure 21: Flow chart and photograph of the K Block STP 100 KLD

L3 & L6 Block STP-600 KLD -2 nos.

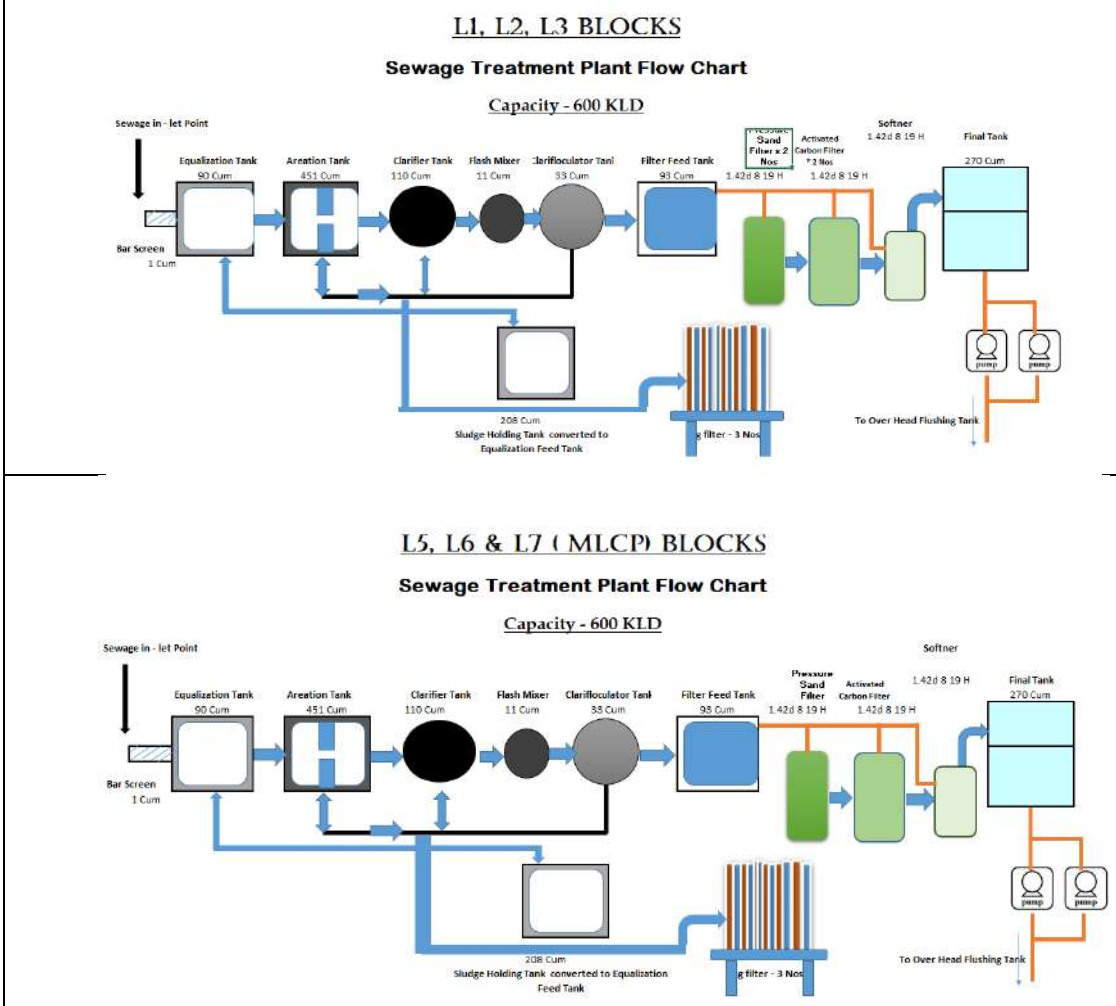

Figure 22: Flow chart and photograph of the L3 & L6 Block STP-600 KLD -2 nos.

N1 Block STP : 200 KLD

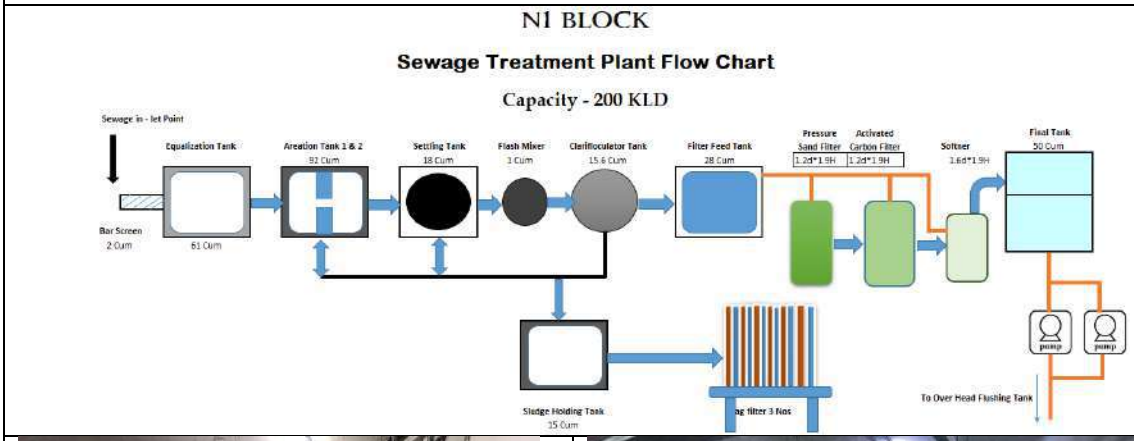

Figure 23 : Flow chart and photograph of the N1 Block STP 200 KLD

10. Conclusion & Recommendations

STPs has been installed to handle sewage generated from various utilities of the occupied buildings. The Plant is adequately designed to achieve the end results and most of the unit operations and process are performing effectively and efficiently and it's was evident during the site visit and physical observations and analytical parameter analysis.

The following are the recommendations

1. It is advised to clean the bar screen and oil and grease traps frequently in order to reduce the odour generation due to organic decomposition.
2. It is suggested to use the Imhoff cones instead of measuring cylinder to check the Mixed Liquor Suspended Solids (MLSS) in each plants.
3. It is suggested to install the online Dissolved Oxygen meter to optimise the operations of the blower and to reduce the sludge bulking due to over aeration.
4. It is suggested to install the Hybrid (combination of anaerobic followed by aerobic) Sewage Treatment Systems instead of energy intensive aerobic system.

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B. M. S. College of Engineering

Dr. C. T. Puttaswamy
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TC-17354

TEST REPORT

Name & Address of the Customer	**M/s. Manyata Promoters Private Limited,** Cedar -Block C2, SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045		
Discipline	**Chemical**	Sample ID	NAL/2026/03/0862
Product or Material	Waste water (Effluents/Sewage)	Report No	NAL/2026/07095
Particulars of Sample	STP Treated Water	ULR No	TC1735426000010772F
Sampling Point	After Filtration tank	Date of Sample Collection	07.03.2026
Sample submitted by	Customer	Date of sample Receipt	07.03.2026
Sample collected by	Our Representative	Date of Analysis Started	07.03.2026
Sample Qty	2Ltrs	Date of Completion	12.03.2026
Page No	1/2	Report Date	12.03.2026
Sample package	Water Sample Collected in PET Bottle		
Description	Colorless liquid having unobjectionable odor.		

Sl. No	Parameters	Unit	Result	Standards as per KSPCB	Test Method
1	pH Value @ 25°C	---	7.5	6.5-8.5	IS 3025 (part 11): 2022
2	Total Suspended Solids	mg/L	8.0	<10	IS 3025 (part 17):2022
3	Bio-Chemical Oxygen Demand (5days @ 20°C)	mg/L	7.8	<10	APHA 24th Edition 5210 BOD B:2023
4	Chemical Oxygen Demand	mg/L	30.0	<50	IS 3025 (part 58):2023
5	Ammonical Nitrogen as N	mg/L	BDL(DL=1.0)	<5	IS 3025 (part 34):1988
6	Total Nitrogen as N	mg/L	2.1	<10	IS 3025 (Part 34): 1988
7	Total Hardness as $CaCO_3$	mg/L	474.0	---	IS 3025 (Part 21): 2009
8	Total Dissolved Solids	mg/L	1560.0	---	IS 3025 (part 16): 2023
9	Total Alkalinity as $CaCO_3$	mg/L	324.0	---	IS 3025 (part 23): 2023
Heavy Metals					
10	Lead as Pb	mg/L	BLQ (LOQ=0.01)	---	IS 3025 (P-2): 2019
11	Aluminum as Al	mg/L	BLQ (LOQ=0.01)	---	IS 3025 (P-2): 2019
12	Copper as Cu	mg/L	BLQ (LOQ=0.01)	---	IS 3025 (P-2): 2019
13	Manganese as Mn	mg/L	0.018	---	IS 3025 (P-2): 2019
14	Arsenic as As	mg/L	BLQ (LOQ=0.01)	---	IS 3025 (P-2): 2019
15	Cadmium as Cd	mg/L	BLQ (LOQ=0.01)	---	IS 3025 (P-2): 2019

Note: BDL: Below Detection Limit: BLQ= Below Quantification Limit; LOQ : Limit of Quantification

Remarks: The above samples **meets to the KSPCB Limits** as per above tested Physio chemical parameters

Verified By

NAL LABS LLP

Lalitha Kumari H
Technical Manager
Authorized Signatory

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E-mail : info.nalrc15@gmail.com / patil.hrb@gmail.com Web : www.nalrcindia.com
TC-17354

TEST REPORT

Name & Address of the Customer	**M/s. Manyata Promoters Private Limited,** Cedar -Block C2, SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045		
Discipline	**Biological**	Sample ID	NAL/2026/03/0862
Product or Material	Waste water (Effluents/Sewage)	Report No	NAL/2026/07095
Particulars of Sample	STP Treated Water	ULR No	TC1735426000010772F
Sampling Point	After Filtration tank	Date of Sample Collection	07.03.2026
Sample submitted by	Customer	Date of sample Receipt	07.03.2026
Sample collected by	Our Representative	Date of Analysis Started	07.03.2026
Sample Qty	500ml	Date of Completion	10.03.2026
Page No	2/2	Report Date	12.03.2026
Sample package	Water Sample Collected in PET Bottle		
Description	Colorless liquid having unobjectionable odor.		

Sl. No	Parameters	Unit	Result	Standards as per KSPCB	Test Method
16	Faecal Coliform	MPN/100ml	26	<100	IS 1622-1981 RA 2019
Remarks: The above samples meets to the KSPCB Limits as per above tested biological parameters					

* * * * End of the Report* * * * *

Verified By

NAL LABS LLP

ANUSHA H.S
Sr. Microbiologist
Authorized Signatory

NAL LABS LLP
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TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Jacaranda -Block C1, Non-SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045.		
Discipline	Chemical	Sample ID	NAL/2026/02/2583
Product or Material	Noise Monitoring	Report No	NAL/2026/05527
		ULR No	TC1342726000015014F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	21.02.2026
		Date of sample Receipt	21.02.2026
Sampling done by	Mr. Manoj& Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model &Sr.No.	Lutron SL-4033 SD, Q703307	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Day Time	METHOD
1	Building Back Right Side Area	61.6	65 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Left Side Area	63.7		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

NAL LABS LLP Bangalore-58

Lalitha Kumari H
Technical Manager
Authorized Signatory

Verified By

NAL LABS LLP
Formerly - **NATIONAL ANALYTICAL LABORATORIES AND RESEARCH CENTER**
1064, 1st and 2nd Floor, Rajgopal Nagar Main Road, 2nd Stage, Peenya Small Industries,
Bangalore, Karnataka, India, 560 058.
T : 080 41214555 I M : +91 70901 54555 / 95383 24580
E-mail : info@nalrcindia.com / patil.hrb@gmail.com Web : www.nalrcindia.com
TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Jacaranda -Block C1, Non-SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045.		
Discipline	Chemical	Sample ID	NAL/2026/02/2871
Product or Material	Noise Monitoring	Report No	NAL/2026/05815
		ULR No	TC1342726000015291F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	24.02.2026
		Date of sample Receipt	25.02.2026
Sampling done by	Mr. Manoj& Team	Date of Analysis Started	25.02.2026
Sampling Procedure	In House SOP	Date of Completion	27.02.2026
Page No	1/1	Report Date	27.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model &Sr.No.	Lutron SL-4033 SD, Q703307	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Day Time	METHOD
1	Building Back Right Side Area	46.4	65 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Left Side Area	48.0		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore-58

Ashwij Prabhu
Head of the Labora
Authorized Signatory

NAL LABS LLP
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1064, 1st and 2nd Floor, Rajgopal Nagar Main Road, 2nd Stage, Peenya Small Industries,
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TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Cedar -Block C2, SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045.		
Discipline	Chemical	Sample ID	NAL/2026/02/2589
Product or Material	Noise Monitoring	Report No	NAL/2026/05533
		ULR No	TC134272600001 5019F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	21.02.2026
		Date of sample Receipt	21.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	23.02.2026
Sampling Procedure	In House SOP	Date of Completion	25.02.2026
Page No	1/1	Report Date	25.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model &Sr.No.	Lutron SL-4033 SD, Q703309	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Day Time	METHOD
1	Building Back Left Side Area	62.7	65 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Right Side Area	60.5		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

NAL LABS LLP Bangalore-58

Verified By

Lalitha Kumari H
Technical Manager
Authorized Signatory

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TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Cedar -Block C2, SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045.		
Discipline	Chemical	Sample ID	NAL/2026/02/2872
Product or Material	Noise Monitoring	Report No	NAL/2026/05816
		ULR No	TC134272600001529 2F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	24.02.2026
		Date of sample Receipt	25.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	25.02.2026
Sampling Procedure	In House SOP	Date of Completion	27.02.2026
Page No	1/1	Report Date	27.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model &Sr.No.	Lutron SL-4033 SD, Q703309	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Night Time	METHOD
1	Building Back Left Side Area	52.9	55 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Right Side Area	49.2		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore-58

Ashwij Prabhu
Head of the Laboratory
Authorized Signatory

NAL LABS LLP
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TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Mulberry-Block G1, SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2269
Product or Material	Noise Monitoring	Report No	NAL/2026/05213
		ULR No	TC1342726000014756F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	19.02.2026
		Date of sample Receipt	19.02.2026
Sampling done by	Mr. Sharnappa & Team	Date of Analysis Started	20.02.2026
Sampling Procedure	In House SOP	Date of Completion	23.02.2026
Page No	1/1	Report Date	23.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model & Sr.No.	Lutron SL-4033 SD, Q703309	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Day Time	METHOD
1	Building Back Right Side Area	59.5	65 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Left Side Area	58.1		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

NAL LABS LLP Bangalore-58

Verified By

Lalitha Kumari H
Technical Manager
Authorized Signatory

NAL LABS LLP
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E-mail : info@nalrcindia.com / patil.hrb@gmail.com Web : www.nalrcindia.com

TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Mulberry-Block G1, SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045		
Discipline	Chemical	Sample ID	NAL/2026/02/2862
Product or Material	Noise Monitoring	Report No	NAL/2026/05806
		ULR No	TC1342726000015282F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	24.02.2026
		Date of sample Receipt	25.02.2026
Sampling done by	Mr. Sharnappa & Team	Date of Analysis Started	25.02.2026
Sampling Procedure	In House SOP	Date of Completion	27.02.2026
Page No	1/1	Report Date	27.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model & Sr.No.	Lutron SL-4033 SD, Q703309	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Night Time	METHOD
1	Building Back Right Side Area	50.7	55 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Left Side Area	48.3		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore-58

Authorized Signatory

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TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Mountain Ash –Block H2, SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045.		
Discipline	Chemical	Sample ID	NAL/2026/02/2387
Product or Material	Noise Monitoring	Report No	NAL/2026/05331
		ULR No	TC1342726000014850F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	20.02.2026
		Date of sample Receipt	20.02.2026
Sampling done by	Mr. Manoj & Team	Date of Analysis Started	21.02.2026
Sampling Procedure	In House SOP	Date of Completion	24.02.2026
Page No	1/1	Report Date	24.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model & Sr.No.	Lutron SL-4033 SD, Q703307	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Day Time	METHOD
1	Building Back Left Side	62.7	65 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Right Side	64.4		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore-58

Lalitha Kumari H
Technical Manager
Authorized Signatory

NAL LABS LLP
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TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Mountain Ash –Block H2, SEZ, Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045.		
Discipline	Chemical	Sample ID	NAL/2026/02/2874
Product or Material	Noise Monitoring	Report No	NAL/2026/05818
		ULR No	TC1342726000015294F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	24.02.2026
		Date of sample Receipt	25.02.2026
Sampling done by	Mr. Manoj & Team	Date of Analysis Started	25.02.2026
Sampling Procedure	In House SOP	Date of Completion	27.02.2026
Page No	1/1	Report Date	27.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model & Sr.No.	Lutron SL-4033 SD, Q703307	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Night Time	METHOD
1	Building Back Left Side	46.2	55 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Right Side	52.6		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

NAL LABS LLP Bangalore-58

Ashwij Prabhu
Head of the Laboratory
Authorized Signatory

Verified By

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TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Balsa –Block N1, Non SEZ , Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045.		
Discipline	Chemical	Sample ID	NAL/2026/02/2715
Product or Material	Noise Monitoring	Report No	NAL/2026/05659
		ULR No	TC1342726000015136F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	23.02.2026
		Date of sample Receipt	23.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	24.02.2026
Sampling Procedure	In House SOP	Date of Completion	26.02.2026
Page No	1/1	Report Date	26.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model & Sr.No.	Lutron SL-4033 SD, Q703309	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Day Time	METHOD
1	Building Back Right Side Area	58.3	65 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Left Side Area	59.2		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore

Lalitha Kumari H
Technical Manager
Authorized Signatory

NAL LABS LLP
Formerly - **NATIONAL ANALYTICAL LABORATORIES AND RESEARCH CENTER**
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E-mail : info@nalrcindia.com / patil.hrb@gmail.com Web : www.nalrcindia.com
TC-13427

TEST REPORT

Name & Address of the Customer:	**M/s. Manyata Promotors Private Limited,** Balsa –Block N1, Non SEZ , Manyata Embassy Business Park, Bengaluru, Karnataka, India, 560045.		
Discipline	Chemical	Sample ID	NAL/2026/02/2752
Product or Material	Noise Monitoring	Report No	NAL/2026/05696
		ULR No	TC1342726000015172F
Particulars of Sample	**Ambient Noise Monitoring**	Date of Monitoring	23.02.2026
		Date of sample Receipt	24.02.2026
Sampling done by	Mr. Basavaraj & Team	Date of Analysis Started	24.02.2026
Sampling Procedure	In House SOP	Date of Completion	26.02.2026
Page No	1/1	Report Date	26.02.2026

DETAILS OF INSTRUMENT USED			
Instrument Name:	Sound level meter	Calibrated Date	08.07.2025
Make, Model & Sr.No.	Lutron SL-4033 SD, Q703309	Calibration due Date	07.07.2026

NOISE MONITORING TEST RESULT

SL. NO	SAMPLE LOCATION	NOISE LEVEL RESULTS IN LEQ dB (A)	Limits as per KSPCB in Night Time	Test Method
1	Building Back Right Area side	49.3	55 dB (A) Leq Max	IS 9989:1981 (Reaffirmed-2020)
2	Building Back Left Side Area	51.6		

Note: Max: Maximum.
Remarks: The sample meets to KSPCB limit as per above tested parameters.

*** * * * End of the Report* * * * ***

Verified By

NAL LABS LLP Bangalore-58

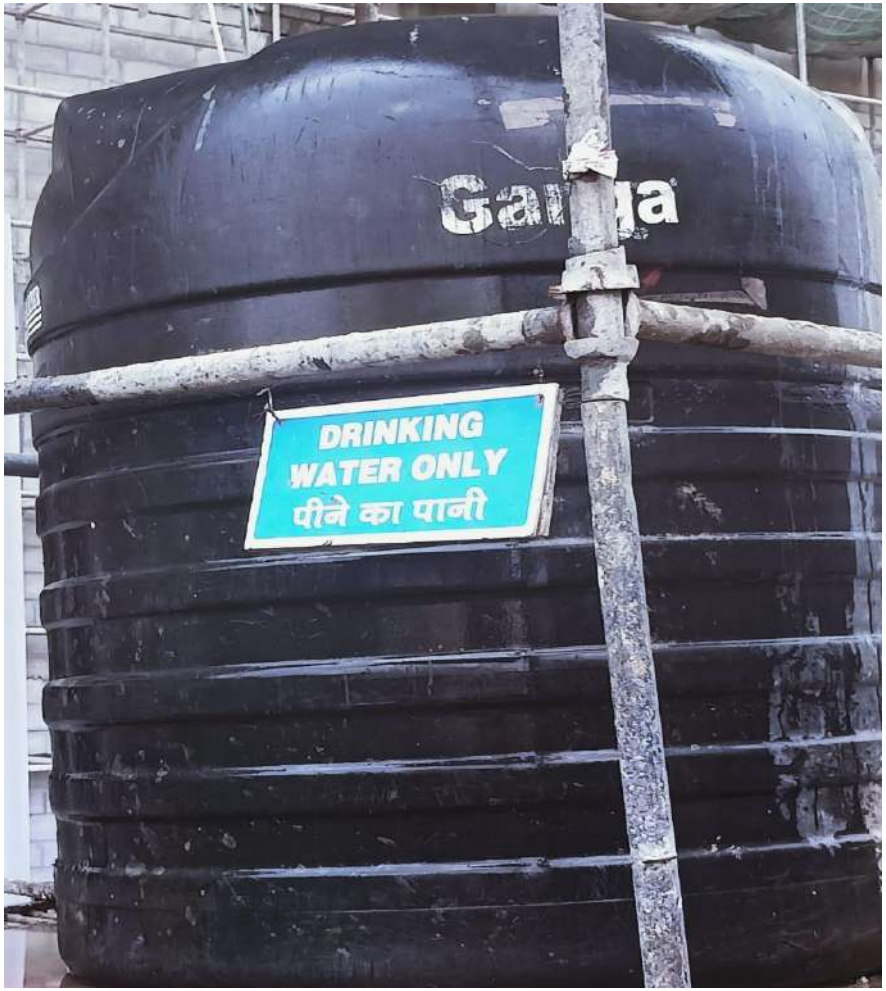
Lalitha Kumari H
Technical Manager
Authorized Signatory

- Mobile Toilet facilities

Mobile toilet, drinking water facilities, first aid facilities for Demolition / construction workers

- <u>Mobile Toilet facilities</u>

Mobile toilet, drinking water facilities, first aid facilities for Demolition / construction workers



- <u>Drinking water facilities</u>

Mobile toilet, drinking water facilities, first aid facilities for Demolition / construction workers

- First aid facilities for Demolition / construction workers

Provision for housing of Consutruciton labour photos

- <u>Provision for housing of Consutruciton labour photos</u>

Quality, Environment, Health, and Safety Policy

Embassy REIT's management and leadership are committed to following high standards of Quality, Environment, Health and Safety (QEHS). The organization considers its stakeholders as fundamental to its business. Embassy REIT emphasizes on ensuring human health & wellbeing, operational safety, environmental protection and preservation, sustainability, quality enhancement and community goodwill as primary commitment. We provide and maintain a healthy & safe working place for our employees, tenants, and vendors to prevent ill health, injuries and ensure total compliance towards the statutory requirements.

Organization Commitment

- Embassy REIT is committed to tenant satisfaction by meeting and complying with tenant requirements. We follow the principle of doing it right the first time and are committed to providing the highest quality services to our tenants. We seek to always meet or exceed tenant expectations aiming for continual improvement in all areas of our operations.
- Committed to comply with all applicable legislative and other requirements.
- We believe that all incidents are preventable, and our vision is that of ZERO injury. Active participation at all levels ensures that we are oriented to achieving this vision.
- We engage relevant internal & external stakeholders while understanding the key QEHS risks and impacts emanating from our operations and services through sufficient information, instruction, training, and supervision as required to enable them to work safely, efficiently to develop positive culture towards Environmental Health, and Safety.
- Committed to promote sustainable use of resources within its operations and implementing resource efficiency strategies. We ensure progress towards prevention of pollution by adopting adequate steps where necessary and providing education and training to employees for minimizing adverse impact on the environment.
- Incorporate QEHS considerations into the business strategy and allocate adequate resources to manage QEHS risks associated with the operations and services across the lifecycle. We engage our stakeholders and to address all QEHS associated issues and grievances.
- Encourage consultation and participation from our employees, contractors, and other interested parties to provide necessary instruction and adequate supervision and demonstrate continual improvement in Quality, Environment, Health and Safety performance through periodic monitoring.
- Committed to manage and mitigate QEHS risk to our surrounding communities during project activities through regular engagement and the development of action plans.
- Committed towards preferential selection of suppliers and contractors who can deliver materials, products, and services in line with the QEHS objectives, and we continuously work towards improving our QEHS performance and carry out periodic reviews in the areas of QEHS.
- We understand the importance of physical and mental wellbeing for our employees and aim to support this with various initiatives.

This policy is applicable to all operations at Embassy REIT and will be periodically reviewed in the context of changing internal and external requirements. Head Operations -India is responsible for the implementation of this policy at Embassy REIT

Vikaash Khdloya

Vikaash Khdloya
Chief Executive Officer

Date: July 1, 2022

The organization has ensured the policy statement is consistent with the corporate values and mission statement and is made available and understood by all employees, contractors, sub-contractors and stakeholders.

PUBLIC NOTICE

The State Level Environment Impact Assessment Authority-Karnataka (constituted by Ministry of Environment, Forest and Climate Change (MoEF&CC) Government of India), has accorded the expansion and modified environmental clearance for "Embassy Manyata Business Park" comprising of IT/ITES park, offices, commercial, retails, hotels, convention centre and banquet hall on the property bearing several survey numbers in Rachenahalli and Thanisandra Villages of K R Puram Hobli, Bangalore East AND Nagawara Village of Kasaba Hobli, Bangalore North Taluk, Bangalore Urban Dist, being developed by M/s. Manyata Promoters Private Limited, vide order No. SEIAA 201 CON 2025 dated 21.02.2026. The said copy of environment clearance is available with the KSPCB / SEIAA office and the website of MoEFCC/SEIAA at **https://parivesh.nic.in**

JNJAB
Amritsar
No. 172 Date 24.02.2026

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Municipal Corporation,
Amritsar.

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(For Road/
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-457(4)/2025-26/10904 Date: 25.02.2026

O)Z/BZ/PTK-24(CALL-3), for the
11kV Switchgears at **66/11kV**
g under Operations Division, BIAL
Bengaluru Urban District on **Partial**
all matching materials (**Excluding**
quipments and erection(including
ents, testing and commissioning".

/2025-26/10905 Date: 25.02.2026

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(O)Z/BZ/TTK-09/CALL-3, for the
Battery Charger set at **220/66/11kV**
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tching materials/equipments and
all materials/equipments, testing

electronic tender mode only. The
subject enquiries in the e-tendering
logging into **Karnataka Public**
site: **www.kppp.karnataka.gov.in**
is can be obtained from the office of

Sd/- Chief Engineer (Electy.,),
n (Operations) Zone, KPTCL,
A.R. Circle, Bengaluru-560009

ODISHA STATE AGRICULTURAL MARKETING
(A Statutory Organization of Govt. of

Plot No.1800 (P), Baramunda, Post-Khandagiri, Near Indian Oil Petr
Ph.No.0674-2952410, Email: osamboard99@ya

Corrigendum

No.762 Date.24.02.2026

Bid Identification of e-Procurement Notice No -1
Tender Call Notice No. - 622 Dated:11.02

"Construction of World Largest Grain Storage in Co-oper
QUALIFICATION CRITERIA, 3.2 (b)

XVI. Experience: Contractor having Successfully completed **500**
in a Single Agreement during the last 3 Financial Years.

Read as

Experience : Contractor having Successfully completed **1000**
in a Single Agreement during the last 3 Financial Years for the W
NOTICE No. - 622 Dated : 11.02.2026, Sl. No. 1, 2, 3 & 4
All other Terms & Conditions will remain unc

Sd/- General Manager, OSAM Boa

39001/15/2526

OIPR

ଓଡ଼ିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଃ

(ଓଡ଼ିଶା ସରକାରଙ୍କ ଏକ ଉପକ୍ରମ)

Regd. Office: OPTCL Tech Tower, Jan

NOTICE INVI

-Tender No.	Tender Descri
CPC-/2025-26	Design, engineering, suppl commissioning of work to 400kV D/C (Quad) line from Talabira to 400/220/132/33 (Line Length=6.8 KM Approx of Odisha on EPC Contract Ba only. **Last Date & Time of 25.03.2026 upto 12:45 P**

omplete set of bidding documents are a
nd **www.optcl.co.in**.

/optcl.odis

ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ,

ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರು, (ಪೂರ್ವ) ಪ್ರಭಾಗ, ಸಿವಿಲ್ ವಿಭಾಗ ಸಮ್ಯುಜದಾವ ರಸ್ತೆ, ಮೈಸೂರು

ಸಂಖ್ಯೆ: ಮೈನಪಾ/ಕಾ.ಇಂ(ಪೂ&ಪ)/ಸಾ.ಟೆಂ.ಪ್ರ–26/2025–26

ಟೆಂಡರ್ ಪ್ರಕಟಣೆ

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಪಬ್ಲಿಕ್ ಪ್ರೊಕ್ಯೂರ್‌ಮೆಂಟ್ ಪೋರ್ಟಲ್ ಮುಖ

ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆಯ ವಿವಿಧ ಅನುದಾನದಲ್ಲಿ ಟೆಂಡರ್ ಆಹ್ವಾನಿಸಲಾಗಿದೆ.

ಕ್ರ ಸಂ	ಟೆಂಡರ್ ಪ್ರಕಟಣೆ ಸಂಖ್ಯೆ	ಒಟ್ಟು ಕಾಮಗಾರಿಗಳು	ಒಟ್ಟು ಮೊತ್ತ (ರೂ. ಲಕ್ಷಗಳಲ್ಲಿ)	ಇ-ಪೋರ್ಟಲ್‌ನಲ್ಲಿ ಟೆಂಡರ್ ಜಾಲ್ತಿಗೆ ಬರುವ ದಿನಾಂಕ
	ಸಿವಿಲ್ ಕಾಮಗಾರಿಗಳು			

KARNATAKA INDUSTR

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No.2, 2/1 and 2/3, Kalidas
Bengaluru - 560 009. Phone N

NOTICE

D' SOUZA Wife Of Late Mr. Mervyn
JDARTHA, son of Late Mr. Mervyn F.
MUDARTHA, daughter of Late Mr.
ently residing at No. 5/12, Brunton
AND **Mr. MERRILL COELHO**, son of
Mrs. Rita Anne Coelho, presently
St. Leo Road, Bandra West, Mumbai
NE COELHO, daughter of Late Mr.
Anne Coelho, presently residing at
akanagar, Bangalore 560 017 as the
VEN DEVELOPERS LLP, a Limited
its registered office at old No.34
Sivan Chetty Gardens, Bangalore,

ಸಾರ್ವಜನಿಕ ಪ್ರಕಟಣೆ

ಭಾರತ ಸರ್ಕಾರದ ಪರಿಸರ ಅರಣ್ಯ ಸಚಿವಾಲಯವು ಮೆ: ಮಾನ್ಯತ ಪ್ರಮೋಟರ್ಸ್ ಪ್ರೈವೇಟ್ ಲಿಮೀಟೆಡ್ ರವರು ಬೆಂಗಳೂರು ಪೂರ್ವ ತಾಲ್ಲೂಕು, ಕೆ.ಆರ್. ಪುರಂ ಹೋಬಳಿ, ರಾಚೇನಹಳ್ಳಿ ಮತ್ತು ಥಣಿಸಂದ್ರ ಗ್ರಾಮ ಹಾಗೂ ಬೆಂಗಳೂರು ಉತ್ತರ ತಾಲ್ಲೂಕು, ಕಸಾಬ ಹೋಬಳಿ, ಸಾಗವಾರ ಗ್ರಾಮದ ಹಲವು ಸರ್ವೆ ನಂಬರ್‌ಗಳಲ್ಲಿ ಉದ್ದೇಶಿತ "ಎಂಬಸ್ಸಿ ಮಾನ್ಯತ ಬಿಸಿನಸ್ ಪಾರ್ಕ್" ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ, ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಅವಲಂಬಿತ ಚಟುವಟಿಕೆಗಳ ಪಾರ್ಕ್, ವಾಣಿಜ್ಯ ಮಳಿಗೆಗಳು ಕಛೇರಿಗಳು, ಹೋಟೆಲ್‌ಗಳು, ಸಮಾವೇಶ ಸಭಾಂಗಣಗಳು ಹಾಗೂ ಚಿಲ್ಲರೆ ವ್ಯವಹಾರ ಒಳಗೊಂಡಸಮಚ್ಚಯ ನಿರ್ಮಾಣಕ್ಕಾಗಿ ವಿಸ್ತರಿಸಿದ ಹಾಗೂ ಪರಿವರ್ತಿತ ನಿರಾಕ್ಷೇಪಣಾ ಪತ್ರವನ್ನು ದಿನಾಂಕ: 21-02-2026 ರಂದು, ಸಂಖ್ಯೆ: SEIAA 201 CON 2025 ರಂತೆ ನೀಡಿರುತ್ತಾರೆ. ಮೇಲ್ಕಂಡ ಅನುಮತಿ ಪ್ರತಿಯು ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪರಿಸರ ಆಘಾತ ನಿರ್ಧಾರಣ ಪ್ರಾಧಿಕಾರ ಹಾಗೂ https://parivesh.nic.in ಜಾಲತಾಣದಲ್ಲಿ ಲಬ್ಯವಿರುತ್ತದೆ.

ರಾಜ್ಯ ಚುನಾವಣಾ ಆಯೋಗ, ಕರ್ನಾಟಕ

ನಂ.16, 2ನೇ ಮತ್ತು 3ನೇ ಮಹಡಿ, ಬಳ್ಳಾರಿ ರಸ್ತೆ, ಸದಾಶಿವನಗರ, ಬೆಂಗಳೂರು-560080.

ಇ-ಮೇಲ್: sec.karnataka@ka.gov.in, ದೂ.: 080-22205189/193

ಸಂಖ್ಯೆ: SECK/ADMN/ETND/1/2026-ADMN E-296416 ದಿನಾಂಕ: 25.02.2026

ಟೆಂಡರ್ ಪ್ರಕಟಣೆ (ಇ ಪ್ರೊಕ್ಯೂರ್‌ಮೆಂಟ್ ಕೋಟೇಷನ್ ಮೂಲಕ ಮಾತ್ರ)

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಚುನಾವಣಾ ಆಯೋಗದ ಕಛೇರಿಯಿಂದ ವಿಡಿಯೋ ಸಂವಾದ ಉಪಕರಣದ ಸಂಗ್ರಹಣೆ ಮತ್ತು 03 ವರ್ಷಗಳ ಅವಧಿಗೆ ಸದರಿ ಉಪಕರಣದ

ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟದ್ದೆ)

(CIN - UO4010KA2002SGC030438)

ಅಂತಿಮ ಮರು ಕರೆ

ಶ್ರೀ ಕೊಟ್ರಪ್ಪ ಎಂ. ಬೆಟಗೇರಿ, ಪವರ್‌ಮ್ಯಾನ್ ಕಾರ್ಯ ಮತ್ತು ಪಾಲನಾ ಘಟಕ-09, ಪಶ್ಚಿಮ 3ನೇ ಉಪ ವಿಭಾಗ, ವಿಧಾಸೌಧ ವಿಭಾಗ, ಬೆವಿಕಂ., ಬೆಂಗಳೂರು ರವರು ದಿನಾಂಕ: 08.10.2025 ರಿಂದ ಇಲ್ಲಿಯವರೆವಿಗೂ ಕಂಪನಿಯ ಕೆಲಸಕ್ಕೆ ಗೈರುಹಾಜರಾಗಿದ್ದು, ಈ ಕಛೇರಿಯ ಪತ್ರ ಸಂಖ್ಯೆ: ಕಾನಿಇಂ(ವಿ)/ವಿವಿ/ ಲೆ/ಸಲೆ/ ಹಿಸ(ಸಿ)/25-26/5614 ದಿನಾಂಕ:27.01.2026 ರಲ್ಲಿ ಅಂತಿಮ ನೋಟೀಸ್ ಅನ್ನು ನೋಂದಾಯಿತ ಅಂಚೆಯ ಮೂಲಕ ಜಾಡಿಯಾಗಿದ್ದು ಕೆಲಸಕ್ಕೆ ಹಾಜರಾಗಿರುವುದಿಲ್ಲ.

ಆದ್ದರಿಂದ ನಿಮ್ಮ ಅನಧಿಕೃತ ಗೈರು ಹಾಜರಿಗೆ ಸಮಂಜಸವಾದ ಕಾರಣದೊಂದಿಗೆ ಈ ಪತ್ರಕ್ಕಾ ಪ್ರಕಟಣೆಯು ಪ್ರಕಟವಾದ ದಿನಾಂಕದಿಂದ 7 ದಿನಗಳ ಒಳಗಾಗಿ ಈ ಕೆಳಕಂಡ ಸಹಿದಾರರ ಮುಂದೆ ಸಮಕ್ಷಮ ಹಾಜರಾಗತಕ್ಕದ್ದು, ತಪ್ಪಿದಲ್ಲಿ ಈ ಪ್ರಕಟಣೆಯು ಅಂತಿಮ ಕರಯೋಲೆ ಪತ್ರವೆಂದು ಪರಿಗಣಿಸಿ ಕ.ವಿ.ಮಂಡಳ ನೌಕರರ (ವ.ಶಿ.ನಿ ಮತ್ತು ಮೆ) ನಿಬಂಧನೆಗಳು 1987ರ ನಿಯಮಾವಳಿಯ ಅಡಿಯಲ್ಲಿ ದತ್ತವಾದ ಅಧಿಕಾರವನ್ನು ಚಲಾಯಿಸಿ ಯಾವುದೇ ಪರಿಹಾರ ನೀಡದೆ ನಿಮ್ಮನ್ನು ಕೆಲಸದಿಂದ ವಜಾಗೊಳಿಸಲಾಗುವುದು.

ಸಹಿ/- ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್(ವಿ),
ವಿಧಾಸೌಧ ವಿಭಾಗ, ಬೆವಿಕಂ., ಗಾಂಧಿನಗರ, ಬೆಂಗಳೂರು-09.

ವಿದ್ಯುತ್ ಸಂಬಂಧಿತ ದೂರುಗಳಿಗೆ ಕರೆ ಮಾಡಿ : 1912
ಬೆಸ್ಕಾಂ ಮಿತ್ರ MOBILE APP ಡೌನ್‌ಲೋಡ್ ಮಾಡಿಕೊಳ್ಳಿ

CLASSIFIED

ಉದ್ಯೋಗಾವಕಾಶ

ಉಡುಪಿ ಚಿಟ್ಸ್‌ನ ಸ್ಟಿಚ್ ಫ್ಯಾಕ್ಟರಿಗೆ ಸಹಾಯಕರು ಬೇಕಾಗಿದ್ದಾರೆ. ಊಟ ಮತ್ತು ಉಳಿಯಲು ವ್ಯವಸ್ಥೆ ಇದೆ. 9740455870.
PC02026CH501162473

ಬೇಕಾಗಿದ್ದಾರೆ: ಉಡುಪಿ ಮಣಿಪಾಲದಲ್ಲಿರುವ ಆತ್ಯಾಧುನಿಕ ಪ್ರೆಸ್‌ಗೆ ಹಗಲು/ ರಾತ್ರಿ ಪಾಳಿಯಲ್ಲಿ ಕೆಲಸಮಾಡುವರೇ ಕನಿಷ್ಠ SSLC/ PUC/ ITI ಕಲಿತಿರುವ ಹುಡುಗರು/ ಹುಡುಗಿಯರುಹಾಗೂಬೆಂಗಳೂರಿನಲ್ಲಿರುವ ಆತ್ಯಾಧುನಿಕ ಪ್ರಿಂಟಿಂಗ್ ಪ್ರೆಸ್‌ನಲ್ಲಿ ಕೆಲಸ ಮಾಡುವರೇ SSLC/ PUC ಕಲಿತಿರುವ ಹುಡುಗರು ಬೇಕಾಗಿದ್ದಾರೆ. ತಿಂಗಳಿಗೆ ರೂ. 18,300/-+ OT, ಹಾಗೂ ವಸತಿ ಮತ್ತು EPF/ ESI ಸೌಲಭ್ಯವಿದೆ. [Age limit 18-35] ಸಂಪರ್ಕಿಸಿ: 9845607627, 9482575267, 8088985301, 8792481338, 9632936713.
PC02028RA001178108

CHARTERED ACCOUNTANTS FIRM IN MANGALORE
Invites applications for