A Guide for Developer



REFERENCE ABRIDGE

ENVIRONMENT & SUSTAINABILITY

Version - 03

Department of Planning, Architecture & Environment





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Document Control		
Document Version 1.0	Developer Handbook to integrate compliance requirement	
Document Version 2.0	Inclusion of Quarterly Reporting Template, Updation of Environmental Clearance condition	
Document Version 3.0	Inclusion of templates on EC compliance, BoCW compliance template, Green Building Intent report, ECBC Feasibility report	



1.0 INTRODUCTION

GIFT City is the first green field with high density urban development to cater need of Financial Services in the country. It is imperative to bring-in sustainable principle and delegate those in form of framework, guidelines and actionable points keeping equal proportionate in Environment, Safety and Health dimension with propagation of city.

All the developments in Gift City are governed by GIFT Urban Development Authority (GIFT UDA) through the GIFT DCR (Section 8,9 & 10). GDCR mandates Environment and Sustainability measures to be adopted in the design, construction and operation of all the developments in the city.

For the clear understanding of the Developer about the Environment & Sustainability requirement to integrate with the development process, this Reference Abridged document is formulated

2.0 OBJECTIVE OF THE DOCUMENT

This document is aimed to facilitate the all developers in GIFT City in following manner:

- 1. To demonstrate about the cornerstone of Environment & Sustainability sphere
- 2. To make aware about the compliances on Environment, Health, Safety & Sustainability
- 3. To enable developers for submission with requisite template
- 4. To provide easy delegation and check point for Monitoring Authority

3.0 LEGAL BOUNDARY

Gift City has been granted with Environmental Clearance from the Ministry of Environment, Forests and Climate Change (MoEF & CC) and its conditions are required to be complied during construction & Operation of City. As Developers are partnering GIFTCL in building GIFT City, so the EC condition on GIFTCL are also implied to Developers, Contractors for compliance.

Alike other projects, Developer attracts National and Regional Laws with an obligation to comply to achieve an overall goal of making development concurrent with Human and Environmental wellbeing.



National Legislation/Guidelines on Environment & Safety Domain are as Below:

- Environment Clearance Condition
- C & D Waste Management Rules, 2016
- Municipal Waste Management Rules, 2016
- Fly Ash Notification, 2015
- E Waste Management Rules, 2016
- Plastic Waste Management Rules, 2016
- Air (Prevention & Control of Pollution) Act, 1981
- Water (Prevention & Control of Pollution), 1974
- Gas Cylinder Rules, 2004
- Biomedical Waste Management Rules, 2016
- ECBC Guidelines, 2017
- BOCW Act, 1996 & Gujarat BOCW Rules, 2003

4.0 GIFT GUIDELINES

In view of facilitating the stakeholders to develop GIFT City in Environmental vibrancy and sustainable way, GIFTCL have synthesized various guidelines with user specific roles and responsibility for all seament of building construction.

Adherence to these guidelines will enable the working site to meet national standard as well as prescription in GIFT DCR on EHS & Sustainability for Construction Sector.

Details on guidelines is delineated as below:

S.	Appellation	Reference
No.		
1	EHS Guidelines for Developers	GIFT/ENV/EHS G-002
2	EHS Guidelines for Contractors	GIFT/ENV/EHS G-002
3	EHS Guidelines for Developers in SEZ	GIFT/ENV/EHS G-001
4	Top Soil preservation During Construction	GIFT/ENV/EHS P & G -001
5	Safe Work Operation of Construction Vehicle	GIFT/ENV/EHS P-003
6	Construction Waste Management	GIFT/ENV/EHS P & G -002
7	Green Building Guidelines	GIFT/ENV/EHS G-001

Further, Developer is required to refer **Annexure-2** of this document for the information exchange on compliances, templates w.r.t Building project cycle.



5.0 ENVIRONMENTAL ASPECT

This section outlines the importance of environmental management in development of GIFT City. Developers need to bring in process to ascertain environmental safeguard starting from site development work and it needs to extend for each stages of Building Lifecycle till occupancy. It is suggested to prepare a detail **EHS & Sustainability Plan** and the said Plan should cover at least particulars mentioned in **Annexure – 1** to fulfil the requirement of this segment. Developers are advised to abide with Guidelines as per **Section 4.0** of this document and implement those at their site.

Developer may adopt the standard template for Environmental Clearance compliance metrics during the Commencement Certificate & Occupancy Certificate respectively, as in **Annexure-3**.

Developer may adopt the compliance metrics for the Building and Other Construction Worker Rules, 1998, as in **Annexure-4** for a guidance on preparing the compliance document. BoCW is mandatory registration and compliance requirement for all development in GIFT City as per GIFT City Statutory Environmental Clearance.

Developer may adopt the standard template as in <u>Annexure-10</u> to report the EHS & Sustainability performance during the construction stage of the project. Developer shall look into the <u>Annexure-2</u> for knowing the timeline and frequency of submission. Developer is required to submit the compliances to Environmental Sustainability Division.

Project proponent is expected to outlay significant policy framework related to Water Management, sanitation facility and construction waste management at the construction site. The detail guidelines relating to Environment, Health & Safety Aspects "GIFT/ENV/EHS G-002" is annexed with Development Permission.

6.0 OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

It is worthwhile to mention about the Occupational Health and Safety hazard associated in construction project. As Construction sector is identified with one most hazardous workplace due to coherent nature of unorganized sector, it contributes to major incident including fatality at workplace. So, it requires precision in planning, implementation and documentation of occupational hazard and its proposed mitigation measures for entire project. It is suggested to prepare detail **EHS & Sustainability Plan** with inclusion of particulars as mentioned



in **Sr. No 3** to **7** as per <u>Annexure -1</u> to fulfill the requirement of this segment. Developers and Contractors are advised to abide with Guidelines as per **Section 4.0** of this document and implement those at their site.

Project proponent may develop their own format for the aforesaid purpose to record aspects relating to Operational Safety such as Personal Protective Equipment, Safety Observation, Testing of Tool & Tackles etc and Occupational Safety aspects such as Pre-employment Medical Check Up, First Aider, Emergency Response Team etc. However, they need to submit reports to GIFTCL covering particulars and frequency mentioned as per **Annexure – 2** and BoCW mandate.

7.0 SUSTAINABILITY

7.1 Green Building Certification

As mandated in GIFT DCR, Developer need to design their development as per prescription in Green Building Guidelines and accord certification from through Accredited Green Building Consultant of GIFTCL.

Developer is suggested to submit the essential submission corresponding to the respective clause in GDCR and Developer Handbook. Herein the extract on compliance category, template guidance and frequency of submission is furnished for easy guidance as per **Anenxure-2**.

Developer is required to submit the Green Building Intent Report, standard template is affixed as <u>Annexure-5</u>. Furtherance to above, Developer is required to submit the feasibility report for Green Building Implementation, standard template is delineated as **Annexure-6**.

7.2 Energy Conservation Building Code

This section outlines the provision of aspect need to introduce during designing stage of Building in areas such as Building Envelop, HVAC, Renewable Power Generation etc. In view of this, Developers are suggested to include Green Building as well as Energy Conservation Building Code prescription in their designing.

Similarly, Developers are suggested to prepare a report on ECBC guidelines by BEE certified expert as per ECBC Code 2017 featuring at least particulars mentioned in Annexure-7; those who are adopting IGBC guidelines for green certifications, then they can choose ECBC standards as reference for energy modeling in order to eliminate requirement of dual modeling based on ASHRAE and ECBC. Developers are required to submit the ECBC feasibility report in the frequency mentioned in Annexure-2; the report formulator may refer the standard template as in



<u>Annexure-8.</u> Further, Developer is required to submit Certified ECBC compliance report by correcting the modifications if any as compared to designing stage after completion of the project and using standard template as in <u>Annexure-8</u>.

8.0 DISASTER MANAGEMENT PLAN

Every developer prior to receive occupancy certificate shall submit Disaster Management Plan to GIFTCL. It is essential to align building disaster ready considering the high-level occupancy in GIFT City.

DMP should cover at least the particulars mentioned in **Annexure – 9**.

9.0 AUDIT & MONITORING

GIFTCL representative (Environment Department) will conduct Periodic site visit to check the implementation of EHS guidelines and non-compliances informed to developers on site. Developers should submit a proper compliance report to fulfil the non-compliances & to maintain effective EHS management system at site, EHS reporting format is attached in **Annexure-10**.

Developer is required to submit compliance to the external proof check consultant observation recorded during the EHS & Sustainability visit at the project.

10.0 POST OCCUPANCY COMPLAINCE

Developers after obtaining Occupancy Certificate is expected to submit Half Yearly Compliance Report containing status to Environmental Clearance condition pertaining to operation stage to Environmental Department as defined in the Occupancy Certificate.

11.0 CONCLUSION

GIFTCL aspire to support Developers in Sustainable Construction to make GIFT City a truly world class Green City.



ANNEXURE



ANNEXURE 1: TEMPLATE EHS & SUSTAINABILITY PLAN

1		Introduction; about the project, Area, Location, No of storied, Accessibility
2		Environment Management
	2.1	Legal Compliance such as Environment Clearance & CCA condition
	2.2	Water Requirement quantity, its source, type of use
	2.3	Power Requirement, source for Construction
	2.4	Type of waste, Area for collection, disposal method
	2.5	Solar Energy Generation Potential
	2.6	Top Soil Generation & preservation method
	2.7	Certification – Green Building & ECBC
	2.8	Material Used for Construction; Fly Ash Bricks, Paver Block etc
3		Safety Management
	3.1	BOCW Requirement; Registration Details
	3.2	Amenities - Drinking Water, Sanitation, Rest Room for Worker, employee
	3.3	Hazard Identification & Control Measures (Including PPE)
	3.4	Lifting Tool & Tackel Certification; frequency of testing
4		Occupational Health
	4.1	Pre-employment medical check up
	4.2	Frequency of Medical Check up as per BOCW
	4.3	First Aid Boxes; Fire Extinguisher
5		Emergency Response
	5.1	Emergency Rescue Team
	5.2	Incident Communication Matrics
6		Organizational Chart
	6.1	EHS Officer; reporting hierarchy
7		Training & Awareness
	7.1	Tool box Talk - Topic Covered; Duration; Instructor; Frequency
	7.2	Signage
8		Monitoring
9		Conclusion



ANNEXURE 2: INFORMATION EXCHANGE FOR EHS & SUSTAINABILITY COMPLIANCE

S.No	Particulars	Submission - Frequency	Remarks
	PRE-CONSTRUCTION	STAGE (DP APPLICA	TION)
1	Copy of Accreditation Certificate of Green Building Consultant issued by GIFTCL	Once or re-submission as and when validity expires	Sr. 7, Table 1 of 8.1; Handbook for Developers; Issued: July 2021
2	Green Building Intent Report	Once	Sr. 7, Table 1 of 8.1; Handbook for Developers; Issued: July 2021
			Standard Template is attached as Annexure- 5 .
	CONSTRUCTION PLANNIN	NG STAGE (CC APPL	ICATION)
1	Working Plan for EHS & Sustainability	Once	Sr. 9, Table 2 of 8.2.2; Handbook for Developers; Issued: July 2021
		000	Standard Template is attached as Annexure-1
2	Action Plan for Compliance to Environment Clearance (EC) Condition for Construction Stage and EHS Guidelines		Sr. 9, Table 2 of 8.2.2; Handbook for Developers; Issued: July 2021
	Guidelines	Once	Standard Template is attached as Annexure-3
3	Feasibility Report for Green Building Certification and Project Registration details as a Green Building	Once	Sr. 9, Table 2 of 8.2.2; Handbook for Developers; Issued: July 2021
		555	Standard Template for Feasibility Report is attached as Annexure-6 .
4	ECBC Feasibility Report	Once	As a part of compliance to Environmental Clearance Condition. it is governed by GDCR (Clause 8.0). Standard Template for



			Feasibility Report is attached as Annexure- 8.
5	BoCW registration Certificate	Once or re-submission as and when require	As a part of compliance to Environmental Clearance Condition, it is governed by
6	BoCW Compliance Action Plan	Once	GDCR (Clause 8.0)
7	NOC from Gujarat Pollution Control Board for RMC Plant	Once or re-submission as and when require	Standard compliance metrics for BoCW
8	C & D Waste Management Plan; Details of Generation, Collection, Disposal method	Once; Separate submission, If not	Compliance Action Plan is attached as Annexure-4 .
9	Emergency Response Plan for Construction scenario	covered in EHS & Sustainability Plan	
	DURING CON	STRUCTION STAGE	
1	EHS Compliance Report – GIFTCL Periodic Inspection	Within 15 Days	Para 8.5 of Handbook for Developers; Issued: July 2021
2	Compliance to Proof Check Consultant Performance Review Observation - Environmental Safety & Sustainability Aspect	During Project construction	Para 8.5 of Handbook for Developers; Issued: July 2021
3	Compliance to CTE & CCA Condition	As and when required	Status on Compliance to condition
4	QUARTERLY EHS Performance Reporting Template	Quarterly	Para 8.5 of Handbook for Developers; Issued: July 2021
5	Pollution & Registration Certificate of Vehicles used in Material Transportation	Record Keeping	As & When new vehicle/Crane/JCB/Loader introduce
6	Top Soil Generation in m ³	Once	As a part of compliance to Environmental Clearance Condition
	Water Consumption Details	Quarterly	
7	Total Water Consumption	m3	Para 8.5 of Handbook for Developers;
i	Construction Use (including RMC if any)	m3	Issued: July 2021. Information is required to
ii	Dust Suppression	m3	be updated in Quarterly Performance Report appended in this document in
iii	Drinking	m3	Annexure-10.
iv	Sanitation	m3	



8	Construction Waste Generation & Disposal in m3 or MT	Quarterly	
9.	Municipal Waste (Food, Paper, Plastic, other)	Quarterly	
i.	Generation QTY or No. of Bins		
ii.	Disposal QTY or No of Bins		
10	Safety Signage & Training at Site	Quarterly	
11	Testing Certificate of Construction Machine, Crane	Quarterly	
12	Pre-employment Medical Checkup of Worker	Quarterly	
13	No. of First Aid incident at site	Quarterly	
14	Emergency Handling Team Details	Quarterly	
15	List of PPE; Disbursement Details	Record verification; during GIFTCL Inspection	
	POST CONSTRUCTION	N PHASE (OC Application)	
1	Green Building Certification (Final) & Review Report from Green Building Certifying Agency	Once	GDCR clause 10.0
2	Expert certified ECBC Simulation Report	Once	In compliance to Environmental Clearance of the project & GDCR (clause 8.0). Standard Template Annexure-8
3	Disaster Management Plan (DMP)	Once	GDCR (clause 9.0). Standard Content Annexure-9
4	EC Compliance Report and Action Plan to condition during operation phase	Once	In compliance to Environmental Clearance of the project & GDCR (clause 8.0). Standard Compliance Metrics Annexure-3 .
5	EHS Compliance Report	Once	Para 8.5 of Handbook for Developers; Issued: July 2021. Reporting Format template Anenxure-10 .



ANNEXURE 3: ENVIRONMENTAL CLEARANCE CONDITION – CONSTRUCTION STAGE

S.No.	EC Condition	Compliance Metrices	Compliance Metrices
		(At the time of CC Application)	(At the time of OC Application)
1	All the building in GIFT City shall comply to the provisions given in "GIFT Development Control Regulations (GDCR). Individual building plans shall be approved by the competent authority as per GIFT Area DCR	Approval from authority as per GIFT DCR (DP/CC)	Submit a matrix covering the applicable GDCR element for the building and corresponding intervention/compliance.
2	All the Building in GIFT City shall be designed as Green Building and accord certifications from agency of National/International repute	Following documents will suffice the compliance: 1. Project Registration for the project 2. Feasibility report consisting of proposed interventions from the available compliance options in the green building standard against the requirement	Green building implementation report involving actuals status against the requirement in the green standard document/ or the final certification document to the certifying body Status on Green Building Final Certification submission and review report from the certification agency
3	Maintain record on Fresh water consumption. No ground water shall be tapped during the construction phase	Submit predictive monthly water consumption report	Actual water consumption in project specific water consumption (KL of water per m2 of construction), water saving calculation, if any
4	Wastewater generation quantity shall not exceed 0.56 MLD. Domestic wastewater shall be collected and treated in STP and it shall be used within construction site for dust suppression & greenbelt etc.	Sewage collection facility in the project sewage treatment facility or arrangement in the project Quantity of wastewater treated	Total wastewater disposed off during the project life cycle in the treatment facility
5	Necessary arrangement shall be ensured during excavation of earth material to control fugitive emission	Depth of excavation Volume of soil excavated Water sprinkler installed or spraying with water tanker PUC details of vehicle used Measures to control soil spillage	No of days of excavation & volume of earth material excavated Water consumed in sprinkling/ Frequency of sprinkling operation in a day



6	Topsoil shall be preserved for its reuse as soil conditioner. Log on topsoil generated and its use shall be maintained	 Topsoil definition or the depth upto which soil considered as topsoil Total volume of topsoil excavated Storage location photographs of topsoil preserved Reuse plan of topsoil 	 Volume of topsoil reused against the preserved volume. Disposal of residual topsoil, if any
7	Construction waste shall be collected, segregated and disposed off as per C & D waste management rules, 2016	Plan covering following: 1. Defining Construction waste in the project 2. Positioning the collection bins 3. Ddisposal methods to be adopted 4. arrangement with the authorized recyler	Volume (m3) /quantum (MT) of construction waste generated Construction waste disposed off and types of disposal
8	Necessary arrangement to ensure health & wellbeing of construction workers viz. Drinking water & tap water, sanitation facilities, first aid box, free medicines, doctor service, PPEs, rooms & welfare facilities shall be provided for workers. All the Building developers shall fulfill Building and Other Construction Worker (BOCW) Act 1996 requirement.	Details about the planned facility to be provided to the worker at construction sites. No of water station, sanitation facility, first aid box, medical check up, type of PPE check the adequacy of facility with numbers of worker employed as per BoCW	Details about the facility provided to the worker at construction sites. No of water station, sanitation facility, first aid box, medical checkup, type of PPE as per actualscheck the adequacy of facility with numbers of worker employed as per BoCW
9	Emergency Planning & Response plan considering construction scenario shall be prepared and implemented	Emergency response plan for the construction projects, consisting of hazard considered, emergency structure, emergency response equipment and arrangement	Emergency response plan for the construction projects, consisting of hazard considered, emergency structure, emergency response equipment and arrangement Report on emergency scenario handled during the project cycle
10	Roads leading to or at construction site must be paved and blacktopped (i.e. metallic roads).	Approach road length from project site paved or metalled length of the road	Approach road length from project site paved or metalled length of the road
11	No excavation of soil shall be carried out without adequate dust mitigation measures in place	Photographs of dust mitigation measures adopted at site	Photographs of dust mitigation measures adopted at site



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12	Grinding and cutting of building materials in open area shall be prohibited	Earmarking the grinding & cutting material position in the logistic area	Earmarking the grinding & cutting material position in the logistic area
13	Construction material and waste should be stored only within earmarked area and roadside storage of construction material and waste shall be prohibited.	Layout showing storage of construction material and waste in the project site Measures adopted not to store material along the roadside	Layout showing storage of construction material and waste in the project site Measures adopted not to store material along the roadside
14	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site	Reason stating need of processing facility at project site	Reason stating need of processing facility at project site
15	Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.	plan to display dust mitigation measures at site. Position of display board in the project site	plan to display dust mitigation measures at site. Position of display board in the project site
16	Environmental Management Cell shall be formed, which shall supervise and monitor the environment related aspects of the project during construction and operational phase in addition to observance of Gujarat Building and other Construction workers (Regulation & Conditions of Services) Rules, 2003.	EHS team at project site and their reporting hierarchy	EHS team & role performed by the team on BoCW compliance
17	Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices	Measures adopted for water use reduction Estimation methods to sum up water use reduction as compared to nominal process as baseline	Quantum of water reduction agents used Quantum of water saved with the application of agent
18	Wind-Breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within project site shall also be provided with barricades	Length & height of barricades covering all sides of project planned	Photographs of Barricades installed on ground
19	Regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission	vulnerable areas (area with possibility of human interaction with dust) in the project site	Water consumed in sprinkling Any additives used to reduce water consumption



		water sprinkling arrangement made thereof	
20	No uncovered vehicles carrying construction material and waste shall be permitted	measures to control use of uncovered material in construction. Demonstrate checks and verification to control	description of methods to control uncovered material in use. Photographs showing covered
21	No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform pilling and proper storage of sand to avoid fugitive emission shall be ensured.	Location of material storage. Arrangement to control	material handling Location of material storage. Arrangement to control
22	Structural design of the project shall strictly adhere to the seismic zone norms for earthquake resistant structures	Statement on seismic proof design as per relevant IS code	Statement on seismic proof design as per relevant IS code
23	The planning, designs and construction of all buildings shall be such so as to ensure safety from fire	Fire safety design for the building	Fire NOC of the building. Report on fire prevention, extinguishing installation in building
24	The project proponent shall ensure maximum employment to local	Definition of local as per company policy List of employment on roll, contractual based on geography	1.No of employees from local areas 2.Total number employees including contractual in project
25	All required sanitary and hygienic shall be provided before starting the construction activities and to be maintained throughout construction phase.	Record on cleaning and maintenance of sanitary	Record on cleaning and maintenance of sanitary facilities at project site
26	Provision shall be made for housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile toilet, mobile STP, safe drinking water, medical healthcare, creches, electricity & ventilation, canteen, rest rooms, safe disposal system for garbage, first aid, medical and emergency facilities etc. to ensure that they do not ruin the existing environmental condition. The	Report on amenities planned for the worker covering, labour colony for number of workers including facilities such as cooking, sanitation, shelter, creches, electricity, all other as mentioned in the pt 26.	Report on amenities planned for the worker covering, labour colony for number of workers including facilities such as cooking, sanitation, shelter, creches, electricity, all other as mentioned in the pt 26.



	housing may be in the form of temporary structures to be removed after completion of the project.		
27	Adequate personal protective equipment shall be provided to the construction workers to ensure their	PPE need assessment based on hazards at project site	Cost expenditure towards PPE item wise; if possible
27	safety and the project proponent shall ensure its usage by the labourers	Measures adopted to ensure usage of PPE by labourers	
28	First aid box shall be made readily available in adequate quantity at all the times	Checklist on first aid box w.r.t BoCW requirement Planned first aid box at project	Cost expenditure towards First aid
		and list of first aider	
29	Training shall be given to all workers on construction safety aspects.	Training calendar for the project site with topics and frequency of training to be	Total training hour conducted Total manpower trained
30	The project proponent shall strictly comply with the Building and Other Construction Workers (Regulations of Employment & Conditions of services) Act 1996 and Gujarat rules made there under and their subsequent amendments.	included Compliance as per BoCW Metrics	Compliance as per BoCW Metrics
31	The overall noise level in and around the project area shall be kept within prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation.	Describe the measures or arrangement to comply	Describe the measures or arrangement to comply
32	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.	Describe the measures or arrangement to comply	Describe the measures or arrangement to comply



33	The noise generating equipment, machinery and vehicles shall not be operated during the night hours and shall be maintained properly to avoid generation of high noise due to wear and tear.	Describe the measures or arrangement to comply	Describe the measures or arrangement to comply
34	Use of diesel generator sets construction phase shall be strictly with acoustic enclosures and shall conform to the EPA Rules for air and noise emission standards.	check if applicable. Describe the measures or arrangement for compliance	check if applicable. Describe the measures or arrangement for compliance
35	Safe disposal of wastewater and municipal solid wastes generated during the construction phase shall be ensured.	1.Earmark waste collection area in the project site 2. Classification of solid waste generated in project site 3. Quantity of waste generated from project site for wastewater	1.earmark waste collection area in the project site 2.classfication of solid waste generated in project site 3.Quanity of waste generated from project site for wastewater
		Arrangement for collection and disposal of wastewater	Arrangement for collection and disposal of wastewater
36	All topsoil excavated during construction activity shall be in horticultural/landscape development within project site.	Volume/quantity of Topsoil excavated Topsoil management; reused/disposed or any other	Volume/quantity of Topsoil excavated Topsoil management; reused/disposed or any other
37	Construction materials and debris shall be properly stored and handled to avoid negative impacts such as air pollution and public nuisance by blocking the roads and public passages.	Same as pt 13 & 14	Same as pt 13 & 14
38	Construction debris shall be reused in construction of roads, levelling the site etc. waste packaging material (like used cement bags, waste paper, cardboard packing material), metal scraps etc. shall be sold to recyclers or shall be sent to the nearest municipal solid waste landfill site.	Arrangement to collect packaging waste, waste paper metal scrap etc and ensure segregation at project site recycler engagement for the disposal of recyclable waste mode of disposal of construction waste and its	Arrangement to collect packaging waste, waste paper metal scrap etc and ensure segregation at project site recycler engagement for the disposal of recyclable waste mode of disposal of construction
		quantity	waste and its quantity



39	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extend possible and balance quantity of excavated earth shall be disposed off with the approval of competent authority after taking the necessary precautions for general safety and health aspects. Disposal of excavated earth during construction phase shall not create adverse effect on neighboring communities.	Describe management of excavated earth. Quantity of soil of excavated, reused and disposed	Describe management of excavated earth. Quantity of soil of excavated, reused and disposed
40	Provision of constructions & demolition waste management rules 2016 shall be strictly adhered to.	Plan covering following: 1. defining Construction waste in the project 2. positioning the collection bins 3. disposal methods to be adopted 4. arrangement with the authorized recycler	Volume (m3) /quantum (MT) of construction waste generated during the project. Construction waste disposed off and types of disposal
41	Vehicles hired for bringing construction material at the site shall be in good conditions and conform to applicable air and noise emission standards and shall be operated only during day time and non-peak hours.	Valid documentation of vehicle; PUC, registration, Driver License	Valid documentation of vehicle; PUC, registration, Driver License
42	Project proponent shall ensure use of eco friendly building materials including fly ash bricks, fly ash paver blocks, Ready mix Concrete and lead free paints in the project.	Quantum/volume of material as mentioned used in the building	Quantum/volume of material as mentioned used in the building
43	Fly ash shall be used in the construction wherever applicable as per provisions of fly ash Notifications under the E P Act, 1986 and its subsequent amendments from time to time.	Fly ash based products in the project fly ash based product to be determined as per fly ash rules, 1999	Quantum/volume of material relating to fly ash used in the building
44	Use of glass shall be minimal and only low emissive glass shall be used in the project to reduce the electricity consumption and load on air conditioning.	building orientation with envelope details on east and west side of the building	Energy consumption simulation report considering the use of low emissivity material in the project as in ECBC report



ANNEXURE 4: COMPLIANCE MATRICES (BoCW)

THE BUILDING AND OTHER CONSTRUCTION WORKERS' (REGULATION OF EMPLOYMENT AND CONDITIONS OF SERVICE) CENTRAL RULES, 1998

Clause No	Compliance Header	Requirement Description
24	BoCW Registration	Obtain BoCW registration from office of the Director Industrial Safety & Health, Gandhinagar Gujarat (before commencement of construction)
34	Excessive noise, vibration, etc	Prepare Noise and Vibration level measuring plan: Submit measures taken to protect building workers against the harmful effects of excessive noise or vibration at such construction site.
35	Fire protection	Construction stages Fire extinguishing Plan covering following: 1. Fire extinguishing equipment sufficient to extinguish any probable fire 2.An adequate water supply at ample pressure 3.Number of trained persons required to operate the fire extinguishing equipment 4.Fire extinguisher in cabin of every lifting appliance including mobile crane
36	Emergency action plans	Construction emergency plan addressing following hazards: 1. fire and explosion 2. collapse of lifting appliances and transport equipment 3. collapse of building, sheds or structures 4. land slides getting building worker buried, floods, storms and other natural calamitie 5. any other site specific hazard
37	Fencing of motors	Identify machinery with moving parts in the construction. State the provisions to ensure following: 1.All moving parts of machinery are securely fenced or lagged 2.Maintenance is to be carried out when such machine is stopped 3.Ensure that such machine does not re-start inadvertently
38	Lifting and carrying of excessive weight	No building worker shall lift manually the weight over permissible limit (Adult man : 55 kg; Adult woman : 30 Kg; Adolescent male : 30 Kg; Adolescent female: 20 Kg)



•	1	<u>, </u>
39	Health and safety policy	Prepare and display health & safety policy: 1. The intentions and commitments of the establishment regarding health, safety and environmental protection of building workers 2. Organisational arrangements to carry out the policy at different levels of hierarchy techniques and methods for assessment of risk to safety, health and environmental and remedial measures 3. Arrangements for training of building workers, trainers, supervisors or other persons engaged
40	Dangerous and harmful environment	Ensure carbon monoxide content of the confine working atmosphere below fifty parts per million; in case presence of any combustion source
41	Overhead Protection	Ensure and upkeep specifications on overhead protection in building with following: 1. Overhead protection is erected along the periphery of every building under construction which shall be of fifteen metres or more in height when completed. 2. Overhead protection shall be erected at 5 m height. Dimension of Protection: 150 mm higher than inner edge; erection angle 20 deg to its horizontal sloping into the building 3. Any area in building and construction site with risk of falling material, article or objects is roped off or cordoned off or suitable guarded from inadvertent entry of persons other than building workers.
42	Slipping, tripping, cutting, drowning and falling hazards	All area shall be maintained accumulation free Sharp projections or protruding nail shall be removed
43	Dust, gases, fumes	providing suitable means to control their concentration within the permissible limit
44	Corrosive Substances	Pillage of such substances on the building worker, immediate remedial measures shall be taken
45	Eye Protection	Provide & maintain record on PPE for Eye protection Suitable personal protective equipment for the protection of eyes shall be provided operations like welding, cutting, chipping, grinding or similar operations which may cause hazard to his eyes
46	Head protection and other protective apparel	Safety helmets - all working under falling hazards Hand gloves - Engaged in handling sharp objects or materials at a building or other construction work waterproof apparel - for worker engaged in wet condition including wet concrete



47	Electrical hazards	Ensure electrical hazard control at the building construction project: 1. Prevent any worker from coming into physical contact with any electrical equipment or apparatus, machines or live electrical circuit 2. Display and maintain suitable warning sign in Hindi or any language understood by majority 3. Electrical appliances and current carrying equipment used at a building or other construction work are made of sound material and are properly and adequately earthed 4. All temporary electrical installations at a building or other construction work are provided with earth-leakage circuit breaker
48	Vehicular Traffic	Provision and upkeep to engage legitimate vehicle & operator: 1. All vehicles used at construction site of a building or other construction work comply with the requirements of the Motor Vehicles Act, 1988 (59 of 1988) and the rules made thereunder 2. Building shall be barricaded and signage to be display cautioning vehicle movement for the safety of worker 3. Driver hold a valid driver license
49	Stability of structures	Identify the fragile structure at the project site and manage its stability inline with following: No structure shall remain unguarded and subject to fall due to wind or any other factors at construction site
50	Illumination of passageways	Illumination as per National standard. Maintain General illumination of 50 Lux
54	Use of safety helmets and shoes	persons who are performing any work or services at a building or other construction work, wear safety shoes and helmets conforming to the national standards
56	Test and periodical examination of lifting appliances	Get load testing certificate from Competent person in Form X (See rule 86 and 104 (b)(1)(b)) for Tower Crane every twelve months or any change/alteration and in Form IX (See rule 86 and 104 (b)(i)(a), Schedule I) of Gujarat BoCW Rules, 2003 for Material hoist every 6 months or change/alteration all lifting appliances are thoroughly examined by a competent



		person once at least in every twelve months for Crane and once at 6 months for material hoist	
57	Automatic safe load indicators	Manufacturer certificate confirming the following:	
		every Crane must have a automatic indicator of safe working loads	
		Cut-out is provided which automatically arrests the movements of the lifting parts of every crane if the load exceeds the safe working load	
		Adequate clearance is provided between parts or loads of lifting appliances	
		The lifting appliances, when exposed to wind loading are given sufficient additional strength, stability and rigidity to withstand such loading safely	
61	Identification and marking of safe working load	every lifting appliance and loose gear is clearly marked for its safe working load and identification by stamping or other suitable meansevery lifting appliance having more than one working load is fitted with effective means to enable the operator to determine safe working load at each point under all conditions of use	
62	Operator's cab or cabin	A checklist consting of the details as below: made of fire resistant material suitable seat, a footrest and protection from vibration; affords the operator an adequate view of the area of operation affords the necessary access to working parts in cab affords the operator adequate protection against the weather adequately ventilated provided with a suitable fire extinguisher	
64	Operation of lifting appliances	every crane driver or lifting operator possess adequate skill and training in the operation of the particular lifting appliance	
		no person under eighteen years of age is in control of any lifting appliance, scaffold winch, or to give signals to the operator	
		precaution is taken by the trained operator to prevent lifting appliance from being set in motion	
		the operation of lifting appliance is governed by signals, in conformity with the relevant national standards	
		the lifting appliance operator's attention is not distracted while he is working	



		no crane, hoist, winch or other lifting appliance or any part of such crane, hoist, winch or other lifting appliance is, except for testing purposes, loaded beyond the safe working load during the hoisting operations effective precaution is taken to prevent any person from standing or passing under the load in such operations operator does not leave lifting appliance unattended while power is on or load is suspended to such appliance no person rides on a suspended load or on any lifting appliance no material is raised, lowered or slowed with any lifting appliance in such a way as to cause sudden jerks to such appliance
		long objects like planks or girders are provided with a tag line to prevent any possibility of danger while raising or lowering such objects
80	Tower Cranes	no person other than the operator trained and capable to work at heights are employed to operate tower crane
		the ground on which a tower crane stands has adequate bearing capacity
		bases for tower cranes and trucks for rail-mounted tower cranes are firm and levelled and such cranes are erected at a reasonably safe distance from excavations and are operated within gradient limits as specified by the manufacturer of such cranes
		tower cranes are sited where there is a clear space available for erection, operation and dismantling of such cranes
		tower cranes are sited in such a way that the loads on such cranes are not handled over any occupied premises, public, thoroughfares, railways or near power cables, other than construction works for which such cranes are used
		where two or more tower cranes are sited and operated, every care is taken to ensure positive and proper communication between operators of such cranes to avoid any danger or dangerous occurrences
		the instructions of the manufacturer of a tower crane and standard safe practices regarding such crane are followed while operating or using such crane
84	Slope of Ramps	Maintain slope at 1 in 4. Ramp slope during construction in project site



95	General safety	Safety Checklist consisting of following on earth moving vehicles operations: every vehicle or earth moving equipment is equipped with silencers, tail lights, power and hand brakes, reversing alarm. search light for forward and backward movement, which are required for safe operation of such vehicle or earth moving equipment
178	Safety belt and its use	Checklist, procedure and systems followed to ensure following: safety belt, lifelines and devices for the attachment of such lifelines conform to the relevant national standards (IS 3521)
		every building worker is supplied with safety belt and safety lifelines for his protection and such building worker uses such belts and lifelines during the performance of his work all building workers using safety belts and safety lifelines have the
		knowledge of safe use and maintenance of such belts and lifelines and are supplied with necessary instructions the responsible person for supervising the use of safety belts and
		safety lifelines referred to in clause (b) inspects and ensures that such safety belts and lifelines are fit for use before taken into use at every time every safety net is of adequate strength, made of sound material
		and is suitable for use and conforms to the relevant national standards
		the responsible person for maintenance of safety nets and their use ensures safe fixing of such safety nets and provides such safety nets with suitable and sufficient anchorage so that the purposes for which such safety net is intended for use, is served
		safety nets, safety belts while not in use shoul prevent mechanical damage, damages from chemicals and damages from biological agents
208	Safety Committees	Safety Committee constituted by the employer which shall be represented by equal number of representatives of employer and building workers employed in such establishment Functions of safety committee



		To stimulate interest of employer and building workers in safety by organising safety weeks, safety competition, talks and film shows on safety, preparing posters or taking similar other measures as and when required or as necessary
		To go round the construction site with a view to check unsafe practices and detect unsafe conditions and to recommend remedial measures for their rectification including First Aid Medical and Welfare Facilities
		To look into the health hazards associated with handling different types of explosive, chemicals and other construction material and to suggest remedial measures including use of proper personal protective equipment
		To suggest measures for improving welfare amenities in the construction site and other miscellaneous aspects of safety, health and welfare in building or other construction work
		To bring to the notice of the employer the hazards associated with use, handling and maintenance of the equipment used during the course of building and other construction work
209	Safety Officer	Employer shall appoint Safety Officers Such safety officers may be assisted by suitable and adequate staff
226	Ambulance Room	in case five hundred or less workers are employed at such construction site there is an ambulance room at such construction site or an arrangement with a nearby hospital for providing an ambulance room an such ambulance room is in the charge of a qualified nurse and the service of such ambulance room is available to building worker employed at such construction site at every time when he is at work
227	Ambulance van	employer shall ensure at a construction site of a building or other construction work that an ambulance van is provided at such construction site or an arrangement is made with a nearby hospital
228	Stretchers	ensure at a construction site of a building or other construction work that sufficient number of stretchers is provided
231	First-aid boxes	Adequate first aid boxes are provided in the project
243	Latrine and urinal accommodation	every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings



		where both male and female building workers are employed, there shall be displayed outside each block of latrines or urinals a notice containing therein —For Men Only or —For Women Only
		every latrine or urinal shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times
		the walls, ceilings and partitions of every latrine or urinal shall be whitewashed or colour-washed once in every period of four months.
244	Canteens	Canteen is required where at least 250 workers are employed
		the canteen, referred to in sub-rule (1) shall consist of a dining hall with furniture sufficient to accommodate building workers using such canteen a kitchen, store-room, pantry and washing places separately for building workers and for utensils.
		waste water from such canteen shall be carried away in suitable covered drains and shall not be allowed to accumulate in the surroundings of such canteen
		suitable arrangements shall be made for the collection and disposal of garbage from such



ANNEXURE 5: GREEN BUILDING INTENT "ANALYSIS" REPORT (STANDARD TEMPLATE)

1.0 INTRODUCTION:

Developer shall give the preliminary brief about the project and propose land use.

2.0 GREEN BUILDING INTENT OBJECTIVE: (response can be more than one)

Developer shall choose the objective behind their green building vision from available tentative options, or they may specify in case the objective is beyond the defined boundary.

S.No.	Generic/standard objective	Response
1	To fulfil the statutory requirement	
2	To respond to the investors	
3	To make the building more appealing	
4	To match up buyer expectations	
5	To optimize resource consumption	
6	To promote socio-environmental aspects	
7	To demonstrate leadership among peers	
8	To fulfil usual business practice	
9	To achieve corporate standards	
10	Any other, pls specify	

3.0 GREEN BUILDING RATING SYSTEM APPRISED:

Developer shall explore the available green building rating system from certifying agency of National/International repute.

Appraiser may refer the Annexure-I to undertake the detailed analysis to ascertain the desired and suitable green building rating system.

Green Building rating system consider for analysis: (Consideration of at least 2 rating system is must to derive an financial/objective/convenience analysis)

(LEED/GRIHA/IGBC/Any other, pls specify -----).

4.0 PERCEIVED ADVANTAGE OF CHOSEN RATING SYSTEM:

Developer shall bring out the advantage they perceive about the rating system. Developer shall use following to express the responses.

Upon apprising the Green Building rating system (as in section 3.0), it is analyzed that, ------, Green Building rating system has following advantage corresponding to other rating system under appraisal in attaining the intended Green Building objective for the project.

S.No.	Edge over the rating system	Response (please tick appropriately; it could be more than one)
1.	Wider market presence	



2.	Easy to approach	
3.	Accessible network of technical experts	
4.	Add on to project marketing strategy	
5.	Easy to understand, relatable guiding document	
6.	Lesser administrative expenses	
7.	Previous experience of certifying agency	
8.	Shorter certification duration	
9.	Quick access to Information on open forum	
10.	No major haul requirement in achieving certification	
11.	Standards reach beyond water and energy	
12.	Lesser Compliance cost for certifications	
13.	Supports higher reduction targets for leadership	
14.	Recognize common industry practices	
15.	Any other, pls specify	

(Developer "Appraiser" is encouraged to annex analysis base work to support the responses)

5.0 Matrices on the standard Green Building requirement and proposal to attempt in the project

Developer shall prepare a sheet comprising; areas of intervention proposed in the building design and implementation for the project out of standard requirement in the chosen Green Building rating system.

Developer may use following:

S.No.	Standard	areas	of	Attempting/Not	Remarks
	intervention/re	equirement		Attempting	
	suggested ir standard docu	•	building		

(Signature of Developer with seal & stamped)



ANNEXURE 6: GREEN BUILDING FEASIBILITY REPORT (STANDARD TEMPLATE)

1.0 Introduction

It may contain a write up, a summary about the project and proposed green building ratings system adopted.

Purpose of the report is to validate the technical and financial feasibility to implement the designed green building criterion for the project.

2.0 About the Proposed Measures in to be Built Environment

It may contain about the elemental description on the intent of the green building rating system. All the measures attempted against the requirement in the project should be delineated exclusively, in following sections.

2.1 Description of Rating Element

Title of the Green Building category (e.g. Site Selection & Planning)

Intent Description

Text -----

Credit Point/Mandatory	Credit Attempted	Credit Doubtful			
Compliance options					

Compliance ophons					
Available options in Green Building	Options Proposed at Project with				
Rating system	description				

2.2 Technical Feasibility Assessment

Assess the availability of intervention required to meet intent at project level. Highlight the Material and technology constraint if any to achieve highest compliance option

2.3 Financial Feasibility Assessment

Assess the financial implication on the project to achieve the highest compliance option in respective intent as compared to proposed adopted compliance option.

Sequence will follow till the last to be attempted/not attempted requirement.



ANNEXURE 7: STANDARD TEMPLATE - ECBC COMPLIANCE REPORT

Developer is required to prepare a report demonstrating Energy Efficiency module in Building Design as per the prescription in Energy Conservation and Building Code 2017 (ECBC).

The Report shall cover the component as below:

- Certified from Bureau of Energy Efficiency (BEE) recognized professional
- Energy conservation methodology through Building Envelop, HVAC, Electrical
 Power; Pump; Renewables
- Transformer as per ECBC guidelines
- Baseline & Proposed case affirming to the component corresponding to climatic zone of site as mentioned in the code covering Section 2.2 of ECBC 2017
- Interpretation of Simulation is required to be presented to enable effective monitoring
- Discussion on EPI of Baseline & Proposed case
- Recommendation to effectively achieve the Energy Saving during occupancy stage



ANNEXURE 8: STRUCTURE OF THE ECBC FEASIBILITY REPORT & CERTIFIED ECBC (SIMULATION REPORT)

S.No.	Particulars	Description
1	PROJECT DESCRIPTION	Describe about the project location, size, no. of floor, projected BUA, Energy load during operation
2	ECBC Compliance Approach	Describe applicable elements in ECBC 2017 viz. Building Envelope, Heating, Ventilation & Air-conditioning, Lighting, Equipment and Solar PV or any renewable energy generation; if any
3	Case comparative	Elemental comparative on base case and proposed case
5	Energy Performance Analysis	Methodology and model adopted used for the analysis Model snapshot and 3D view deliberation & Model output description as generated Graphical representation of elemental energy conservation performance w.r.t to base case and model output (e.g. energy consumption from envelope in base case vs energy consumption from envelope in proposed case etc)
6	Performance Discussion & EPI Estimation	EPI calculation for the building
7	Certification & Recommendation	It applies for Certification ECBC simulation Report only. Report shall contain above sections (1 to 6) in conformance with the actual building specification, in case of deviation from design, followed by reviewed from an ECBC expert. It is required as part of OC Application.



ANNEXURE 9: TEMPLATE - DISASTER MANAGEMENT PLAN

Developer is required to demonstrate safety considerations in design. In addition, they need to prepare a report comprising of identification, preparedness, mitigation & Recovery procedure to deal with any emergency.

The Emergency Response Plan shall include the particulars as below:

- 1 Hazard & Vulnerability Risk Assessment for the building perspective
- 2 Mitigation Plan for all anticipated hazards
- 3 Response plan including floor wise evacuation Processes, instructions and routes
- Emergency Organization structure comprising of name of personnel, their role & responsibility, mode of contact and directory along with succession plan
- 5 Detail casualty management plan
- SOP to combat and evacuate in the event of fire hazard, Cyclone, Flood alike Electrocution and Earthquake
- 7 SOP for external communication in case of emergency
- 8 Communication system and capacity building program for all occupants including rescue team members
- Process and procedure for mock drills for each hazard/ Audit methodology and scheme of revision
- 10 Checklist on legal requirement and its compliances



ANNEXURE 10: QUARTERLY EHS PERFORMANCE REPORTING TEMPLATE (Under Construction Projects)

1. EHS Performance Statement

License/Approval	Date of Issue	Date of Expiry
BOCW Registration		
RMC NOC		
Third party Inspection Tower		
Crane		
Third party inspection Material		
Elevator		
Third party Inspection Chain, sling		

Particulars	Unit	Previous Quarter	Present Quarter
Construction Undertaken	BUA		
First Aid	No.		
Near Miss	No.		
Accident	No.		
Training/Toolbox talk Conducted (including Induction)	Hr.		
Manpower Engaged	No.		
Water Consumption (separately for 3 months)	KL		
Power Consumption (separately for 3 months)	KWH		
Construction Waste Generation	m3 or MT		
Construction Waste Disposal	m3 or MT		
Inward Vehicle (Material)	No.		



i.	Concrete	MT or m3	
ii.	Fly Ash Based Material (pls specify)	MT or m3	
iii.	Sand	m3	
Plasticiz	er Consumption	Specify unit	
Water S	aving, if any	Ltr	

2. Green Building Construction Status Report

A. <u>Preliminary Information:</u>

- I. Target Green Rating System:

 IGBC/GRIHA/LEED/Other (National/International rated), pls specify
- II. Target Rating (as per rating system render):
- 1. Details of Green Building (GB) Consultant:
- 2. Status of GB Consultant Accreditation with GIFT:
- 3. Feasibility Report on Credit Interpretation submitted: Yes/No

B. <u>Progress Monitoring</u>

- Monitoring checklist will be dynamic and largely depend upon the rating and compliance choices made by the developer.
- Developers are advised to prepare self-reporting format to track implementation of Green Building requirement

3. Energy Conservation Building Code Implementation

A. <u>Preliminary Information</u>

Heads	Particulars	Response
	Hospitality/Educational/Health	
Building Classification	Care/Shopping	
	Complex/Business/Assembly	
Connected Load	Kwh	
Applicability of ECBC	Yes or No	
	Prescriptive or Whole Building	
Method to Follow	Performance Method	



Compliance Requirement	Full building Compliance/Core Shell Building Compliance	
Consultant of ECBC	Name, Contact Details	
Compliance		
Reference Document	ECBC Code	
Area of Compliance	Building Envelope	
Refer Standard for	Lighting	
Specification in design	HVAC Thermal Zone	
	Electrical Power	
	Renewable Energy System	

B. Progress Monitoring:

- 1. Energy Simulation Report with ECBC prescription as Input submitted: Yes/No
- 2. Developers are advised to prepare self-reporting format to track implementation of ECBC Compliance.
- 3. Checklist shall include Area of compliance mentioned in Simulation Report

4. Site EHS activity with supported content

Indicative List of activity to demonstrate EHS performance are as follows:

- 1. Training Conducted to worker
- 2. Material Transportation with covered sheet
- 3. Testing of Electrical Circuit/ELCB
- 4. Hygiene & cleanliness at site Housekeeping Carried out
- 5. Environmental Measures in Logistic Area
- 6. Labour Colony and welfare activity at site
- 7. Air Pollution Control activity
- 8. Health check up if any
- 9. Monsoon Action plan, if any
- 10. Lifting Equipment Maintenance/upkeep activity
- 11. High Risk Job Identified/Action Plan/Closed
- 12. Any Other at site