



Directorate of Municipal Administration, Government of Odisha

Implementation of an Integrated
e-Governance Solution across all
Urban Local Bodies of Odisha

Drawing Manual – Online Building Permission System

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1. Introduction

1.1. Background

The Housing & Urban Development Department (H&UDD), Government of Odisha has ambitious plans to scale up e-governance across 113 Urban Local Bodies (ULBs) in the State of Odisha. It aims to enhance the citizen experience of public services by providing integrated, end-to-end services using a comprehensive State-wide Service Delivery Infrastructure. Online Building Permission System (OBPS) is one of the focus areas for the H&UDD to help all stakeholders and citizen get building plan approvals through end to end automation of the processes involved.

Online Building Permission System (OBPS) envisages complete automation of all processes related to building approval at Odisha. The building approval process involves private architects submitting building plans as per the approved byelaws of the state of Odisha. The building plan submission follows series of departmental approvals and NOCs from pre-defined departments in line with the byelaws of Odisha. All the processes and steps including calculation of fee, payment of fee, receipt of approval for the permission and certificates etc would be delivered online through an integrated one stop solution. Citizen would not be required to visit any of the external departments such as AAI, NMA, Fire etc for NOCs as the solution has the potential to bring integrated experience.

DIGIT - Online Building Permission System (OBPS) shall enable local government to bring in transparency, accountability and time-bound service for the public. With DIGIT - OBPS, professionals like architects, engineers, supervisors can seek permission for construction of a building for any Urban Local Body / District Town and Country Planning / Centre for Municipal Administration with a speedy, hassle-free and user-friendly procedure, online.

1.2. Salient features of OBPS solution Odisha

- Software based verification of building plans and details, for compliance with the various regulations. defined in Odisha bye-laws.
- An overall transformation in the concept of conventional plan scrutiny process.
- Minimizes the human interventions in plan scrutiny.
- Facilitate online approvals of building permit and Occupancy certificate applications.
- Improved transparency in the building permit process.
- Better precision in interpretations of the various rules.
- Facility for checking conformity with the rules of the plans and details prior to official submission.
- Only the rule complied plans and details can be officially submitted for permit application.

2. Guidelines for preparation of drawings

2.1. General guidelines

- All drawings shall be drawn in 1:1 scale, in meter, in model space.
- All required details as per this guideline shall be submitted in a single drawing, drawn in model space.
- The drawing shall be saved in .dxf format and then compressed to .zip format and to be uploaded for the rule validation.
- The drawings shall be prepared by matching the various entries in the drawings with the properties of layers of the supplied layer matrix.
- The layer template file, which can be downloaded along with these guidelines, contains all the layers which are used by the system and can be made use while creating .dxf. drawings required for rule validation.
- Wherever details are to be furnished as dimensions, these are to be incorporated using dimension tools, and shall not be exploded/edited.
- Wherever one or more polygons/ dimensions/ lines/ depicting different parameters are required to overlap, it shall be ensured that, no gaps/ spaces are left in between.
- The use of layers/ Texts/ colour conventions specified by these guidelines to designate a parameter shall be restricted to that entity only and shall not be used elsewhere in the drawing.
- The drawing may get aborted if it does not adhere to the guidelines mentioned in the document.

2.2. Drawing Preparation Format to be followed

- All details shall be furnished using closed polygon with polylines, lines, texts, dimensions etc. to be incorporated in layers, index colors as specified in this guideline.
- It is instructed to the architects to keep all the layers and details in the drawing as per ODA Bye Laws standards. Over and above this, prepare drawing for features scrutiny in dxf format as per this drawing manual. The layers drawn for Auto Scrutiny should be drawn overlaid/Superimposed on top of the base drawing. It is recommended to freeze the layers that may not be relevant while preparation of drawing.

2.3. Unit Settings in Drawing

System accepts drawing in unit - **Meter**

Put drawing unit length type - **Decimal**

Put drawing unit angle type – **Decimal Degrees**

Put dimension style unit formal - **Decimal**

Use precision – **0.00**

Deviation from above mentioned settings will get the drawing rejected by the scrutiny system.

2.4. Layers for drawing preparation

S.No	Feature	Layer Name	Drawing guidelines	Layer Code	Drawing Requirement
Layers to be drawn on the site plan					
1	Plot area	PLOT_BOUNDARY	Draw as Polygon around the plot boundary	70	Mandatory as per rule
2	Ground Coverage area	BLK_n_COVERED_AREA	Draw as Polygon around the coverage area	140	Mandatory as per rule
		BLK_n_COVERED_AREA_DEDUCT	Draw as Polygon around the area for coverage deduction	140	Mandatory as per rule
3	Building Footprint	BLK_n_LVL_n_BLDG_FOOT_PRINT	Draw as closed polygon, using poly line on site plan. Polygon shall outline the building area.	As per Sub - Occupancy type	Mandatory as per rule
4	Setbacks Front	BLK_n_LVL_n_FRONT_SETBACK	Draw as closed polygon, using poly line on site plan. Polygon shall be touching the corners of Building Footprint Layer and Plot Area Layer	2	Mandatory as per rule
5	Setbacks Rear	BLK_n_LVL_n_REAR_SETBACK	Draw as closed polygon, using poly line on site plan. Polygon shall be touching the corners of Building Footprint Layer and Plot Area Layer	11	Mandatory as per rule
6	Setbacks Left	BLK_1_LVL_o_SIDE_SETBACK1	Draw as closed polygon, using poly line on site plan. Polygon shall be touching the corners of Building Footprint Layer and Plot Area Layer	171	Mandatory as per rule
7	Setbacks Right	BLK_1_LVL_o_SIDE_SETBACK2	Draw as closed polygon, using poly line on site plan. Polygon shall be touching the corners of Building Footprint Layer and Plot Area Layer	102	Mandatory as per rule
8	Open Space between buildings	DIST_BETWEEN_BLK_n_BLK_n	Draw dimension between Two Building Blocks	7	Mandatory as per rule
9	Plantation Tree Count	PLANTATION_TREECOVER	Draw polygon for Trees Cut	1	Mandatory as per rule
			Draw polygon for Existing Trees	2	Mandatory as per rule
			Draw polygon for Planted Trees	3	Mandatory as per rule
10	Plantation Green Strip	BLK_n_PLANTATION_GREENSTRIP	Draw polygon around open green area	7	Mandatory as per rule

11	Rainwater harvesting system	RWH	Draw polygon around the tank	4	Mandatory as per rule
			Add text for Rainwater Harvesting tank (using Mtext) capacity = RWH_CAPACITY_L=n	4	Mandatory as per rule
12	Recharge Pit	SITE_COMPONENTS	-Draw polygon around the Recharge Pit -Draw Dimension of Height of Recharge Pit	1	Mandatory as per rule
13	Electric Lines	OHEL_n	Draw Polyline over Electric Line	7	Optional as per design
		VOLTAGE_n	Add text for Voltage in KV (using Mtext) = VOLTAGE_KV=n	7	Optional as per design
		HORIZ_CLEAR_OHEL_n	Draw Horizontal dimension between Building Block and Electric Line	7	Optional as per design
14	Distance from External Wall (Only for Shop-cum-Residential)	BLK_1_FLR_o_COMM_DIST_FROM_FRNT_EXT_WALL	Draw distance from external wall	1	Optional as per design
15	Treatment Plant	WATER_TREATMENT_PLANT	Draw polygon around the water treatment plant (WTP)	1	Mandatory as per rule
			Draw polygon around the Sewage treatment plant (STP)	2	Mandatory as per rule
16	Waste Water Treatment	SITE_COMPONENTS	-Draw polygon around the Septic Tank	2	Mandatory as per rule
			-Draw polygon around sewage treatment plant	3	
17	Parking Type	OPEN_PARKING	Draw Polygon over Open Parking	7	Optional as per design
		BLK_n_FLR_n_COVERED_PARKING	Draw Polygon over Basement Parking	7	Optional as per design
		SPECIAL_PARKING	Draw Polygon over Stilt Parking	3	Optional as per design
		SPECIAL_PARKING	Draw Polygon over Roof top parking	4	Optional as per design
		STACK_PARKING	Draw Polygon over stack parking	7	Optional as per design
18	Parking Unit Count	PARKING_UNIT	Draw Polygon for each Open Parking Units.	1	Mandatory as per rule
			Draw Polygon for each Basement Parking Units.	2	Mandatory as per rule
			Draw Polygon for each Stilt Parking Units.	3	Mandatory as per rule
			Draw Polygon for each Rooftop Parking Units.	4	Mandatory as per rule
19	Loading Space	LOADING_SPACE	Draw Polygon for each Loading Space Units.	7	Mandatory as per rule

20	Parking Provision	VISITOR_PARKING	Draw Polygon over Visitor Parking space	7	Optional as per design
		SPECIAL_PARKING	Draw Polygon over Staff Parking Space	5	Optional as per design
		TWO_WHEELER_PARKING	Draw Polygon over Two Wheeler Parking Space	1	Optional as per design
		TWO_WHEELER_PARKING	Draw Polygon over Bicycle Parking Space	2	Optional as per design
		SPECIAL_PARKING	Draw Polygon over EWS/LIG Parking Space	1	Optional as per design
		SPECIAL_PARKING	Draw Polygon over MIG Parking Space	2	Optional as per design
21	Special Parking (Disabled Parking)	DA parking	Draw Polygon over DA Parking Space	7	Mandatory as per rule
22	North Direction	NORTH_DIRECTION	Draw North Direction Symbol using Polyline -and add NORTH in Mtext	7	Mandatory as per rule
23	Amenity in Open Space	ACCBLK_1	Draw polygon around Amenity in Open Space Block	7	Optional as per design
		ACCBLK_n_UNIT_n	Guard Room Draw polygon around Guard Room	1	Optional as per design
			Electric Cabin Draw polygon around Electric Cabin	2	
			Sub-Station Draw polygon around Sub-Station	3	
			Area for Generator Draw polygon around Area for Generator Set	4	
			ATM Draw polygon around ATM	5	
			Other Amenity Draw polygon around Other Amenity	6	
24	Vehicular access within Site	BLK_n_FIRE_TENDER_MOVEMENT	Draw as polygon on access road within site for each building block	7	Mandatory as per rule
25	Road/Drain widening	AFFECTED_LAND_AREA	CDP proposed drain affected area Draw polygon and Width dimension on site plan outlining the affected area	2	Optional as per design
			Proposed road affected area Draw polygon and Width dimension on site plan outlining the affected area	3	Optional as per design

			CDP proposed road affected area Draw polygon and Width dimension on site plan outlining the affected area	4	Optional as per design
			Road widening affected area Draw polygon and Width dimension on site plan outlining the affected area	5	Optional as per design
			Area left for restricted area Draw polygon on site plan outlining the affected area	6	Optional as per design
26	Ancillary Road width (Maximum of 1 road width can be provided for setback exemption as per norms)	BLK_n_LVL_o AncILLARY_ROAD_WIDTH	Ancillary road on Rear Side Dimension for ancillary road width on rear	11	Optional as per design
			Ancillary road on Left Side Dimension for ancillary road width on rear	171	Optional as per design
			Ancillary road on Right Side Dimension for ancillary road width on rear	102	Optional as per design
27	Main entrance	BLK_n_LVL_o_MAIN_ENTRANCE	Main Entrance on Front Side Dimension for entrance width on front	2	Mandatory if ancillary road width has been provided
			Main Entrance on Rear Side Dimension for entrance width on rear	11	Mandatory if ancillary road width has been provided
			Main Entrance on Left Side Dimension for entrance width on left	171	Mandatory if ancillary road width has been provided
			Main Entrance on Right Side Dimension for entrance width on right	102	Mandatory if ancillary road width has been provided
Layers to be drawn on the Floor Plans					
1	FAR (Proposed Construction)	BLK_n_FLR_n_BLT_UP_AREA	Draw as polygon on each floor outlining build up area	As per Sub - Occupancy type	Mandatory as per rule
		BLK_n_FLR_n_BLT_UP_AREA_D EDUCT	Draw as polygon on each floor outlining build up area for FAR deduction	As per Sub - Occupancy type	Mandatory as per rule

		BLK_n_FLR_n_FAR_AREA_ADD	Draw as polygon on basement floor for FAR Add	As per Sub - Occupancy type	Mandatory as per rule
		BLK_n_FLR_n_FAR_AREA_DEDUCT	Draw as polygon on each floor for FAR Deductions/Exemptions	As per Sub - Occupancy type	Mandatory as per rule
2	FAR (Existing Construction) : For Addition & Alteration service only	BLK_n_FLR_n_BLT_UP_AREA_EXISTING	Draw as polygon on each floor outlining existing build up area	As per Sub - Occupancy type	Mandatory as per rule
		BLK_n_FLR_n_BLT_UP_AREA_DEDUCT_EXISTING	Draw as polygon on each floor outlining existing build up area for FAR deduction	As per Sub - Occupancy type	Mandatory as per rule
		BLK_n_FLR_n_FAR_AREA_ADD_EXISTING	Draw as polygon on existing basement floor for FAR Add	As per Sub - Occupancy type	Mandatory as per rule
		BLK_n_FLR_n_FAR_AREA_DEDUCT_EXISTING	Draw as polygon on each floor for FAR Deductions/Exemptions	As per Sub - Occupancy type	Mandatory as per rule
3	Carpet Area (Existing construction) : For Addition & Alteration service only	BLK_n_FLR_n_CARPET_AREA_EXISTING	Draw as polygon on existing carpet area	As per Sub - Occupancy type	Mandatory as per rule
		BLK_n_FLR_n_CRPT_AREA_DEDUCT_EXISTING	Draw as polygon on existing carpet area deduct	As per Sub - Occupancy type	Mandatory as per rule
4	Approved Existing Construction : For Addition & Alteration service only	BLK_n_FLR_n_APPROVED_CONSTRUCTION	Draw as polygon on each floor outlining approved existing area	As per Sub - Occupancy type	Mandatory as per rule
5	Demolition Area : For Addition & Alteration service only	BLK_n_FLR_n_DEMOLITION_AREA	Draw as polygon on each floor outlining demolition area	7	Optional as per design
6	Carpet Area	BLK_n_FLR_n_CARPET_AREA	Draw carpet area of each floor using polygon	As per Sub - Occupancy type	Mandatory as per rule
		BLK_n_FLR_n_CRPT_AREA_DEDUCT	Draw carpet area of each floor using polygon	As per Sub - Occupancy type	Mandatory as per rule
7	Roof Area	BLK_n_FLR_n_ROOF_AREA	Draw as polygon outlining Roof area	7	Mandatory as per rule

8	Typical Floors	BLK_n_FLR_n_BLT_UP_AREA	Denote all the typical floors in a building block in Mtext - TYPICAL_FLOOR_PL AN=1,2,n	As per Sub-occupancy type	Optional as per design
9	General Staircase	BLK_n_FLR_n_STAIR_n	Draw Polygon around staircase layout	7	Mandatory as per rule
			Add floor height in same layer with MText - FLR_HT_M=n	7	Mandatory as per rule
		BLK_n_FLR_n_STAIR_n_FLIGHT_n	Draw Polygon around each flight in staircase	7	Mandatory as per rule
			Dimension for flight length	1	Mandatory as per rule
			Dimension for flight width	2	Mandatory as per rule
			Number of rises by drawing lines	3	Mandatory as per rule
		BLK_n_FLR_n_STAIR_n_LANDING_n	Polygon around each landing	7	Mandatory as per rule
			Dimension for flight length	1	Mandatory as per rule
			Dimension for flight width	2	Mandatory as per rule
10	Dwelling Units	BLK_n_FLR_n_UNITFA	Draw as polygon on each EWS Dwelling Unit	1	Optional as per design
			Draw as polygon on each LIG Dwelling Unit	2	Optional as per design
			Draw as polygon on each MIG 1 Dwelling Unit	3	Optional as per design
			Draw as polygon on each MIG 2 Dwelling Unit	4	Optional as per design
			Draw as polygon on each Other Category of Dwelling Unit	5	Optional as per design
			Draw as polygon on each Room Unit	6	Optional as per design
			Draw as polygon on each Owner's Society Office	8	Mandatory as per rule
11	Exit Travel Distance	DIST_EXIT	Multiple Dimensions for Maximum Travel Distance	7	Mandatory as per rule
12	Exit Width Staircase	BLK_n_FLR_n_EXIT_WIDTH_STAIR	Dimension for Staircase Exit width	7	Mandatory as per rule
13	DA Ramp	BLK_n_DA_RAMP_n	Draw polygon around DA Ramp	7	Mandatory as per rule
			Add Slope in same layer with Mtext - SLOPE=1IN8	7	Mandatory as per rule

14	Vehicular Ramp	BLK_n_FLR_n_VEHICLERAMP_n	LMV 1 Way -Draw polygon around Vehicular Ramp -Add Slope in same layer with Mtext - SLOPE=1IN8	1	Optional as per design
			LMV - 2 Way -Draw polygon around Vehicular Ramp -Add Slope in same layer with Mtext - SLOPE=1IN8	2	Optional as per design
			LCV - 1 way -Draw polygon around Vehicular Ramp -Add Slope in same layer with Mtext - SLOPE=1IN8	3	Optional as per design
			LCV - 2 way -Draw polygon around Vehicular Ramp -Add Slope in same layer with Mtext - SLOPE=1IN8	4	Optional as per design
			HMV - 1 way -Draw polygon around Vehicular Ramp -Add Slope in same layer with Mtext - SLOPE=1IN8	5	Optional as per design
			HMV - 2 way -Draw polygon around Vehicular Ramp -Add Slope in same layer with Mtext - SLOPE=1IN8	6	Optional as per design
			Fire tender -Draw polygon around Vehicular Ramp -Add Slope in same layer with Mtext - SLOPE=1IN10	8	Optional as per design
15	Interior open space	BLK_n_FLR_n_COURTYARD_INNER	Draw polygon around interior open space on each floor	7	Mandatory as per rule
16	Light and Ventilation	BLK_n_FLR_n_ROOM_n_LIGHT_VENTILATION_n	Draw polygon with dimension of window on the floor plan	RGB 19,155,72	Mandatory where habitable room (Naturally Ventilated) is provided
17	Solar photo voltaic Panels	SOLAR_PANEL	Draw polygon outlining Solar Panels to mention location and provide Generation capacity in Plan Info	3	Mandatory as per rule
18	Solar water heating system	SOLAR_WATER_HEATER	Draw polygon outlining Solar Water Heater to mention location and provide capacity in LPD in Plan Info	7	Mandatory as per rule

19	Lifts	BLK_n_FLR_n_LIFT_n	General Lift Draw polygon to mark lift location	1	Mandatory as per rule
			Lift for Physically Disabled Draw polygon to mark lift location	2	Mandatory as per rule
			Car Lift Draw polygon to mark lift location	3	Optional as per design
20	Owner's Society Office	BLK_n_FLR_n_BLT_UP_AREA	Draw as polygon on floor outlining built up area of the Owner's Society Office block	103	Optional as per design
21	Outhouse	BLK_n_FLR_n_BLT_UP_AREA	Draw as polygon on floor outlining built up area of the outhouse block	100	Optional as per design
22	Public Washroom Complex	BLK_n_FLR_n_BLT_UP_AREA	Draw as polygon on floor outlining built up area of the Public Washroom Complex block	101	Mandatory as per rule
23	Wash Basin	BLK_n_FLR_n_WASH	Draw a polygon on wash basin of public washroom complex.	7	Mandatory as per rule
24	Chajja/Projections over setback	BLK_n_FLR_n_CHAJJA	Draw as polygon on each floor outlining Chajja/Projections	7	Optional as per design
25	Water Closet	BLK_n_FLR_n_WATER_CLOSET	Draw as polygon for Common Water closet	3	Mandatory as per rule
			Draw as polygon for Female Water closet	2	Mandatory as per rule
			Draw as polygon for Male Water closet	1	Mandatory as per rule
26	Urinals	BLK_n_FLR_n_URINAL	Draw as polygon for Male Urinal	1	Mandatory as per rule
27	Bath	BLK_n_FLR_n_BATH	Draw as polygon for Common Bath	3	Mandatory as per rule
			Draw as polygon for Female Bath	2	Mandatory as per rule
			Draw as polygon for Male Bath	1	Mandatory as per rule
28	Toilet	BLK_n_FLR_n_WC_BATH	Draw as polygon for Common Toilet	3	Mandatory as per rule
			Draw as polygon for Female Toilet	2	Mandatory as per rule
			Draw as polygon for Male Toilet	1	Mandatory as per rule
29	Disabled Toilet	BLK_n_FLR_n_SP_WC	Draw as polygon for Common Disabled Toilet	3	Mandatory as per rule
			Draw as polygon for Female Disabled Toilet	2	Mandatory as per rule

			Draw as polygon for Male Disabled Toilet	1	Mandatory as per rule
30	Doorways	BLK_n_FLR_n_EXIT_WIDTH_DOOR	Draw Dimension for General Door/Entrance Door Width on each floor	1	Mandatory as per rule
			Draw Dimension for Bathrooms, water closet and stores Door width	2	Mandatory as per rule
			Draw Dimension for Fire Door width	3	Mandatory as per rule
			Draw Dimension for Disabled Access Door width	4	Mandatory as per rule
Layers to be drawn on the Floor Plans and Sectional Elevations					
1	Passageways & Corridors	PASSAGE	Draw Dimension for Passage/Corridor height in Sectional Elevation	1	Optional as per design
			Draw Dimension for width of Passage/Corridor on Floor Plan	2	Optional as per design
		PASSAGE_DOUBLELOADED	Draw Dimension for width of Double loaded Passage/Corridor on Floor Plan	2	Optional as per design
2	Regular Room	BLK_n_FLR_n_REGULAR_ROOM_n	Habitable Room (Naturally Ventilated) Draw polygon for each room on floor plan Draw dimension of room height for respective room in sectional elevation	1	Optional as per design
			Habitable Room (Mechanically Ventilated) Draw polygon for each Room on floor plan Draw dimension of room height for respective room in sectional elevation	2	Optional as per design
			Study Room Draw polygon for Study Room on floor plan Draw dimension of room height for respective room in sectional elevation	3	Optional as per design

			Library Room Draw polygon for library Room on floor plan Draw dimension of room height for respective room in sectional elevation	4	Optional as per design
			Game Room Draw polygon for Game Room on floor plan Draw dimension of room height for respective room in sectional elevation	5	Optional as per design
			CCTV Room Draw polygon for CCTV Room on floor plan Draw dimension of room height for respective room in sectional elevation	28	Optional as per design
			Service Room Draw polygon for Service Room on floor plan Draw dimension of room height for respective room in sectional elevation	29	Optional as per design
			MEP Room Draw polygon for MEP Room on floor plan Draw dimension of room height for respective room in sectional elevation	30	Optional as per design
			Laundry Room Draw polygon for laundry Room on floor plan Draw dimension of room height for respective room in sectional elevation	31	Optional as per design
			Lift Lobby Draw polygon for lift Lobby on floor plan Draw dimension of room height for respective room in sectional elevation	32	Optional as per design

			Guard Room Draw polygon for Guard Room on floor plan Draw dimension of room height for respective room in sectional elevation	33	Optional as per design
			Electric Cabin Draw polygon for Electric Cabin on floor plan Draw dimension of room height for respective room in sectional elevation	34	Optional as per design
			Sub-Station Draw polygon for Sub-Station on floor plan Draw dimension of room height for respective room in sectional elevation	35	Optional as per design
			Generator Room Draw polygon for Generator Room on floor plan Draw dimension of room height for respective room in sectional elevation	36	Optional as per design
			ATM Draw polygon for ATM on floor plan Draw dimension of room height for respective room in sectional elevation	37	Optional as per design
3	Stilt Floor Proposed	BLK_n_FLR_n_STILT_FLOOR	Draw polygon for Stilt Floor on floor plan. Draw dimension of room height for respective room in sectional elevation	As per Sub - Occupancy type	Optional as per design
4	Stilt Floor Existing	BLK_n_FLR_n_STILT_FLOOR_EXISTING	Draw polygon for Stilt Floor on floor plan. Draw dimension of room height for respective room in sectional elevation	As per Sub - Occupancy type	Optional as per design

5	Service Floor Proposed	BLK_n_FLR_n_SERVICE_FLOOR	Draw polygon for Service Floor on floor plan. Draw dimension of room height for respective room in sectional elevation	As per Sub - Occupancy type	Optional as per design
6	Service Floor Existing	BLK_n_FLR_n_SERVICE_FLOOR_EXISTING	Draw polygon for Service Floor on floor plan. Draw dimension of room height for respective room in sectional elevation	As per Sub - Occupancy type	Optional as per design
7	Mezzanine Floor	BLK_n_FLR_n_ROOM_n_MEZ_AREA_n	Draw polygon for Mezzanine Floor on floor plan (Room number should be same as the respective regular room under which the mezzanine floor is present) Draw Dimension of the Mezzanine Floor height	As per Sub - Occupancy type	Optional as per design
8	IBS for CTI Provision	BLK_n_FLR_o_BLT_UP_AREA	Entrance Facility Draw as polygon on floor outlining built up area of the Entrance Facility	105	Optional as per design
		BLK_n_FLR_o_IBS_EF_DIM	Entrance Facility Draw Dimension of the Entrance Facility Length	1	Optional as per design
			Entrance Facility Draw Dimension of the Entrance Facility Width	2	Optional as per design
		BLK_n_FLR_n_IBS_FOR_CTI_n	Entrance Facility (EF) Draw as polygon on floor outlining built up area	1	Mandatory as per rule
			Main Distribution Frame (MDF)/ Equipment Room (ER) Draw as polygon on floor outlining built up area	2	Mandatory as per rule
			Telecommunication Room (TR) Draw as polygon on floor outlining built up area	3	Mandatory as per rule
			Telecommunication Enclosure (TE) Draw as polygon on floor outlining built up area	4	Mandatory as per rule

Layers to be drawn on the Sectional Elevations or Building Elevation					
1	Building Height	BLK_n_HT_OF_BLDG	Draw as dimension on Sectional Elevations or Building Elevation	5	Mandatory as per rule
2	Basement Floor Height	BLK_n_FLR_n_BLDG_FOOTPRINT	Draw Dimension of basement floor clear height (beam to floor/ceiling to floor)	1	Mandatory if basement is provided
			Draw Dimension of the height ceiling of upper basement from the average surrounding ground level	2	Mandatory if upper basement is provided
3	Plinth Height	BLK_n_PLINTH_HEIGHT	Draw Dimension of the Plinth height	7	Optional as per design
4	Staircase Headroom/Flight Headroom	BLK_n_STAIR_HEADROOM	Draw dimension of Staircase Headroom	7	Mandatory where staircase is proposed
5	Staircase Railing / DA ramp Railing / Parapet / Special Lift Handrail	BLK_n_PARAPET_HT	Draw Dimension of Staircase Railing height	1	Mandatory as per rule
			Draw Dimension of DA Ramp Railing Height	2	Mandatory as per rule
			Draw Dimension of Parapet Height	3	Optional as per design
			Draw Dimension of Special Lift Handrail height	4	Mandatory as per rule
6	Mumty	BLK_n_MUMTY_HT	Draw Dimension of Parapet	7	Optional as per design
7	Entrance Gate	MAIN_GATE	Draw polygon outlining main gate	7	Optional as per design
			Use dimension tool to draw main gate width	2	Optional as per design
			Use dimension tool to draw main gate Archway height if Provided	1	Optional as per design
8	Glass Façade Opening	BLK_n_FLR_n_GLASS_FACADE_n	Draw polygon outlining Glass Façade opening	7	Optional as per design
			Draw Dimension of the Height of Glass Façade opening	1	
			Draw Dimension of the Width of Glass Façade opening	2	
			Draw Dimension of the height from floor to glass opening	3	

2.5. Layer color as per occupancy type

S.No	Occupancy	Sub-Occupancy	Color Code
1	Residential	Plotted Detached/Individual Residential building	11
2	Residential	Semi-detached	12
3	Residential	Row housing	13
4	Residential	Apartment Building	14
5	Residential	Housing Project	15
6	Residential	Studio Apartments	17
7	Residential	Dharmasala	18
8	Residential	Dormitory	19
9	Residential	EWS	20
10	Residential	Low Income Housing	21
11	Residential	Medium Income Housing	22
12	Residential	Hostel	23
13	Residential	Shelter House	24
14	Residential	Staff Quarter	25
15	Commercial	Hotel	30
16	Commercial	5 Star Hotel	31
17	Commercial	Motels	32
18	Commercial	Services for households	33
19	Commercial	Bank	35
20	Commercial	Resorts	36
21	Commercial	Lagoons and Lagoon Resort	37
22	Commercial	Amusement Building/Park and water sports	38
23	Commercial	Financial services and Stock exchanges	39
24	Commercial	Cold Storage and Ice Factory	40
25	Commercial	Commercial and Business Offices/Complex	41
26	Commercial	Convenience and Neighborhood Shopping	42
27	Commercial	Professional offices	43
28	Commercial	Departmental store	44
29	Commercial	Gas Godown	45
30	Commercial	Godowns	46
31	Commercial	Good Storage	47
32	Commercial	Guest Houses	48
33	Commercial	Holiday Resort	49
34	Commercial	Boarding and lodging houses	50
35	Commercial	Petrol Pump (Only Filling Station)	51
36	Commercial	Petrol Pump (Filling Station and Service station)	52
37	Commercial	CNG Mother Station	53
38	Commercial	Restaurant	54
39	Commercial	Local(etail) shopping	55
40	Commercial	Shopping Center	56
41	Commercial	Shopping Mall	57
42	Commercial	Showroom	58

43	Commercial	Wholesale Storage (Perishable)	59
44	Commercial	Wholesale Storage (Non-Perishable)	60
45	Commercial	Storage/ Hangers/ Terminal Depot	61
46	Commercial	Supermarkets	62
47	Commercial	Warehouse	63
48	Commercial	Wholesale Market	64
49	Commercial	Media Centers	65
50	Commercial	food courts	66
51	Commercial	Weigh bridges	67
52	Commercial	Mercantile	68
53	Public-Semi Public/Institutional	Auditorium	120
54	Public-Semi Public/Institutional	Banquet Hall	121
55	Public-Semi Public/Institutional	Cinema	122
56	Public-Semi Public/Institutional	Club	123
57	Public-Semi Public/Institutional	music pavilions	124
58	Public-Semi Public/Institutional	Community Hall	125
59	Public-Semi Public/Institutional	Orphanage	126
60	Public-Semi Public/Institutional	Old Age Home	127
61	Public-Semi Public/Institutional	Science Centre/Museum	128
62	Public-Semi Public/Institutional	Conference Hall	129
63	Public-Semi Public/Institutional	Convention Hall	130
64	Public-Semi Public/Institutional	sculpture complex	131
65	Public-Semi Public/Institutional	Cultural Complex	132
66	Public-Semi Public/Institutional	Exhibition Center	133
67	Public-Semi Public/Institutional	Gymnasia	134
68	Public-Semi Public/Institutional	Marriage Hall/Kalyan Mandap	135
69	Public-Semi Public/Institutional	Multiplex	136
70	Public-Semi Public/Institutional	Museum	137
71	Public-Semi Public/Institutional	Place of worship	138
72	Public-Semi Public/Institutional	Public Libraries	139
73	Public-Semi Public/Institutional	Recreation Building	140
74	Public-Semi Public/Institutional	Sports Complex	141
75	Public-Semi Public/Institutional	Stadium	142
76	Public-Semi Public/Institutional	Theatre	143

77	Public-Semi Public/Institutional	Administrative Buildings	144
78	Public-Semi Public/Institutional	Government offices	145
79	Public-Semi Public/Institutional	Local and semi-Government offices	146
80	Public-Semi Public/Institutional	Police/Army/Barrack	147
81	Public-Semi Public/Institutional	Religious Building	148
82	Public-Semi Public/Institutional	Social and welfare centers	149
83	Public-Semi Public/Institutional	Clinic	150
84	Public-Semi Public/Institutional	Dispensary	151
85	Public-Semi Public/Institutional	Yoga Center	152
86	Public-Semi Public/Institutional	Diagnostic Centre	153
87	Public-Semi Public/Institutional	Govt-Semi Govt. Hospital	154
88	Public-Semi Public/Institutional	Registered Trust	155
89	Public-Semi Public/Institutional	Health center	156
90	Public-Semi Public/Institutional	Hospital	157
91	Public-Semi Public/Institutional	Lab	158
92	Public-Semi Public/Institutional	Maternity Home	159
93	Public-Semi Public/Institutional	Medical Building	160
94	Public-Semi Public/Institutional	Nursing Home	161
95	Public-Semi Public/Institutional	Polyclinic	162
96	Public-Semi Public/Institutional	Rehabilitation Center	163
97	Public-Semi Public/Institutional	Veterinary Hospital for pet animals and birds	164
98	Public-Semi Public/Institutional	Research and Training Institute	165
99	Public-Semi Public/Institutional	Police Station	166
100	Public-Semi Public/Institutional	Fire Station	167
101	Public-Semi Public/Institutional	Jail/Prison	168
102	Public-Semi Public/Institutional	Post Office	169
103	Public Utility	Bill Collection Center	210
104	Public Utility	Broadcasting-Transmission Centre	211
105	Public Utility	Burial and cremation grounds	212
106	Public Utility	Public Distribution System Shop	213
107	Public Utility	Public Toilets in Public Area	214
108	Public Utility	Public Utility Building	215
109	Public Utility	Sub-Station	216

110	Public Utility	Telecommunication	217
111	Public Utility	water pumping stations	218
112	Public Utility	service and storage yards	219
113	Public Utility	electrical distribution depots	220
114	Industrial Zone	Industrial Buildings (Factories, Workshops, etc.)	200
115	Industrial Zone	Non-Polluting Industrial	201
116	Industrial Zone	IT, ITES Buildings	202
117	Industrial Zone	SEZ Industrial	203
118	Industrial Zone	Loading/Unloading Spaces	204
119	Industrial Zone	Flatted Factory	205
120	Industrial Zone	small factories and etc. falls in industrial	206
121	Education	Coaching Centre	170
122	Education	Commercial Institute	171
123	Education	College	172
124	Education	Computer Training Institute	173
125	Education	Nursery School	174
126	Education	Primary School	175
127	Education	Hostel (Captive)	176
128	Education	High School	177
129	Education	Play School	178
130	Education	crèche	179
131	Education	School for Mentally Challenged.	180
132	Education	Art academy	181
133	Education	Technical College	182
134	Education	Sports training centers	183
135	Education	Training Institute	184
136	Education	Veterinary Institute	185
137	Education	Medical College	186
138	Education	Research and Training Center	187
139	Transportation	Airport	29
140	Transportation	Auto Stand	79
141	Transportation	Metro Station	189
142	Transportation	Bus Stand	199
143	Transportation	Bus Terminal	229
144	Transportation	ISBT	239
145	Transportation	Railway station	249
146	Transportation	Taxi Stand	250
147	Transportation	Multi Level Car Parking	251
148	Transportation	Public Parking	252
149	Transportation	Toll Plaza	253
150	Transportation	Truck Terminal	254
151	Agriculture	Agriculture Farm	80
152	Agriculture	Agro Godown	81
153	Agriculture	Agro-Research Farm	82
154	Agriculture	Farmhouse	83

155	Agriculture	Country Homes	84
156	Agriculture	Nursery and green houses	85
157	Agriculture	Poultry, Diary and Swine/Goat/Horse	86
158	Agriculture	Horticulture	87
159	Agriculture	Seri culture	88

2.6. Layer Plan Info

S.NO	Description	Key	Expected response format
1	Name of architect/ Technical person responsible for drawing preparation	ARCHITECT_OR_TECHNICAL_PERSON_NAME	Full Name
2	Plot Number of the project site	PLOT_NO	Numeric value
3	Khata Number of the project site	KHATA_NO	Numeric value
4	Mauza of the project site	MAUZA	Mauza Name
5	District of the project site	DISTRICT	District Name
6	Plot area of the project site	PLOT_AREA_M2	Numeric value with decimal
7	Depth of the Plot	AVG_PLOT_DEPTH	Numeric value with decimal
8	Width of the Plot / Plot Frontage Dimension	AVG_PLOT_WIDTH	Numeric value with decimal
9	Describes the width of the adjacent road to the plot	ADJACENT_ROAD_WIDTH	Numeric value. Eg. 4,5,10 etc.
10	Floor area of the demolition if required	EXISTING_FLOOR_AREA_TO_BE_DEMOLISHED_M2	Numeric value with decimal
11	Describes the occupant load in a building/number of occupants using the building or the Number of Beds in a Hospital/ Number of Students in educational Building	NUMBER_OF_OCCUPANTS_OR_USERS_OR_BED_BLK_1 NUMBER_OF_OCCUPANTS_OR_USERS_OR_BED_BLK_2 NUMBER_OF_OCCUPANTS_OR_USERS_OR_BED_BLK_n	Numeric value. Eg. 4,5,10 etc.

12	For identification whether project is Low Risk or Other Than Low Risk	IS_THE_PLOT_PART_OF_THE_LAYOUT_APPROVED_BY_THE_AUTHORITY_OR_DEVELOPED_AND_ALLOTTED_BY_THE_GOVERNMENT_OR_STATUTORY_BODIES_OR_IS_A_FINAL_PLOT_IN_TOWN_PLANNING_SCHEMES_OR_DEVELOPMENT_SCHEMES	YES/NO
13	Is land regularized	IS_LAND_REGULARIZED	YES/NO
14	Land Use of the proposed project	LAND_USE_ZONE	RESIDENTIAL USE ZONE RETAIL COMMERCIAL & BUSINESS USE ZONE WHOLESALE COMMERCIAL USE INDUSTRIAL USE ZONE PUBLIC & SEMI- PUBLIC USE ZONES UTILITY & SERVICE USE ZONE OPEN SPACE USE ZONE TRANSPORTATION USE AGRICULTURE & FOREST USE ZONE WATER BODIES USE ZONE SPECIAL HERITAGE ZONE ENVIRONMENTAL LY SENSITIVE ZONE NA
15	For identification whether building or part of a building which is used for the storage, handling, manufacture or processing of highly combustible or explosive materials or products which are liable to burn with extreme rapidity or producing poisonous fumes, or the storage, handling, manufacturing or processing of which	IS_BUILDING_UNDER_HAZARDOUS_OCCUPANCY_CATEGORY	YES/NO

	involves highly corrosive, toxic, obnoxious alkalis, acids or other liquids, gases or chemicals, producing flame, fumes and explosion, poisonous irritant or corrosive gasses and for the storage, handling or processing of any material producing explosive mixture of dust or which result in the division of matter into fine particles subject to spontaneous ignition and includes petrol filling stations		
16	Is building having Centrally Air Conditioned system	IS_BUILDING_CENTRALLY_AIR_CONDITIONED	YES/NO
17	Benchmark Value of Land (Per Acre) needed if project is having Purchasable FAR component	PER_ACRE_BENCHMARK_VALUE_OF_LAND_NEEDED_IF_PROJECT_IS_HAVING_PURCHASABLE_FAR_COMPONENT	Numeric value with decimal/NA
18	Distance of DA parking space from Building entrance (If DA Parking is Mandatory)	DISTANCE_OF_DA_PARKING_SPACE_FROM_BUILDING_ENTRANCE	Numeric value with decimal/NA
19	Total Parking area if project has off site parking provision within 300 meters from project Site	TOTAL_PARKING_AREA_IF_PROJECT_HAS_OFF_SITE_PARKING_PROVISION_WITHIN_300_METERS_FROM_PROJECT_SITE	Numeric value with decimal/NA
20	Applicable if Project is Hotel	STAR_RATING_FOR_HOTEL_PROJECT	1/2/3/4/5/NA
21	Applicable if Project is Hospital	DOES_HOSPITAL_HAVE_CRITICAL_CARE_UNIT	YES/NO/NA
22	Applicable if Building Block Height is more than 200 m	PROVISION_FOR_HELIPAD_PRESENT	YES/NO/NA
23	Applicable if internal road is providing access to any side other than Front side for a building Block	IS_DRIVEWAY_PROVIDING_ACCESS_TO_REAR_SIDE_OR_ANY_OTHER_SIDE_OTHER_THAN_FRONT_OF_THE_BUILDING=YES/NO	
24	Applicable for Both Petrol Pump Sub occupancy only	MINIMUM_DISTANCE_FROM_THE_ROAD_INTERSECTIONS	Numeric value with decimal/NA
25	Applicable for Both Petrol Pump Sub occupancy only	MINIMUM_DISTANCE_OF_PROPERTY_LINE_FROM_THE_CENTRE_LINE_OF_THE_ROAD	Numeric value with decimal/NA
26	Does building have more than 10000 litres of Waste Water discharge per day	DOES_PROJECT_HAVE_MORE_THAN_10000_LITRES_OF_WASTE_WATER_DISCHARGE_PER_DAY	YES/NO

27	Mandatory For All Occupancy	TOTAL_CONNECTED_LOAD_OF_THE_PROPOSED_PROJECT_IN_W	Numeric value with decimal
28	Capacity in W if Solar Photo voltaic system is mandatory for project	MINIMUM_GENERATION_CAPACITY_OF_THE_ROOFTOP_SOLAR_PV_SYSTEM_IN_W	Numeric value with decimal / NA
29	Capacity in LPD if Solar water heating system is mandatory for project	CAPACITY_OF_SOLAR_WATER_HEATING_SYSTEM_IN_LPD	Numeric value with decimal / NA
30	Does project have low water consumption and plumbing fixtures?	DOES_PROJECT_HAVE_LOW_WATER_CONSUMPTION_AND_PLUMBING_FIXTURES	YES/NO/NA
31	Does project have reduction in Hardscape provision	DOES_PROJECT_HAVE_REDUCED_HARDSCAPE	YES/NO/NA
32	Does project have low energy consumption lighting fixtures?	DOES_PROJECT_HAVE_LOW_ENERGY_CONSUMPTION_LIGHTING_FIXTURES	YES/NO/NA
33	Does project have energy efficient hvac system?	DOES_PROJECT_HAVE_ENERGY_EFFICIENT_HVAC_SYSTEM	YES/NO/NA
34	Does project have lighting of common areas by solar energy or led devices?	DOES_PROJECT_HAVE_LIGHTING_OF_COMMON_AREAS_BY_SOLAR_ENERGY_OR_LED_DEVICES	YES/NO/NA
35	Does project have segregation of waste provision?	DOES_PROJECT_HAVE_SEGREGATION_OF_WASTE_PROVISION	YES/NO/NA
36	Does project have organic waste management provision?	DOES_PROJECT_HAVE_ORGANIC_WASTE_MANAGEMENT_PROVISION	YES/NO/NA
37	Does the Project requires NOC from AAI as per the Colour Coded Zone Maps	DOES_THE_PROJECT_REQUIRE_NOC_FROM_AAI_AS_PER_THE_COLOUR_CODED_ZONE_MAPS	YES/NO
38	Is project located within 300 meters distance of Centrally Protected Monument	IS_THE_PROJECT_LOCATED_WITHIN_300_METERS_DISTANCE_OF_THE_CENTRALLY_PROTECTED_MONUMENT	YES/NO
39	Is project located within 300 meters distance of State Protected Monument	IS_THE_PROJECT_LOCATED_WITHIN_300_METERS_DISTANCE_OF_THE_STATE_PROTECTED_MONUMENT	YES/NO
40	Is project located within 200 mts from strategic buildings	IS_THE_PROJECT_LOCATED_WITHIN_200_METERS_FROM_STRATEGIC_BUILDINGS	YES/NO
41	Is proposed construction next to flood embankment and applicant wants to have direct access from the Embankment Road	IS_PROPOSED_CONSTRUCTION_NEXT_TO_FLOOD_EMBANKMENT_AND_DOES_APPLICANT_WANT_TO_HAVE_DIRECT_ACCESS_FROM_THE_EMBANKMENT_ROAD	YES/NO
42	Is kism of land recorded as agriculture in record of Rights.	IS_KISAM_OF_LAND_RECORDED_AS_AGRICULTURE_IN_RECORD_OF_RIGHTS	YES/NO

43	Is project adjacent to Highway & is having direct access	IS_THE_PROJECT_ADJACENT_TO_HIGHWAY_AND_HAVING_DIRECT_ACCESS_TO_IT	YES/NO
44	Is project in Close to Coastal Region	IS_THE_PROJECT_CLOSE_TO_THE_COASTAL_REGION	YES/NO
45	OSHB or government allotted or BDA developed and allotted plot?	DOC_OSHB_OR_GA_OR_BDA_DEV_ELOPED_AND_ALLOTTED_PLOT	YES/NO
46	Is Plot part of approved private layout?	DOC_PLOT_PART_OF_APPROVED_PRIVATE_LAYOUT	YES/NO
47	Is Plot part of unauthorized layout or revenue plot?	DOC_PLOT_PART_OF_UNAUTHORISED_LAYOUT_OR_REVENUE_PLOT	YES/NO
48	Is project coming under the jurisdiction of planning authorities	DOC_IS_PROJECT_COMING_UNDE R_THE_JURISDICTION_OF_PLANNING_AUTHORITIES	YES/NO
49	Does the project have affordable housing component	DOC_DOES_THE_PROJECT_HAVE_AFFORDABLE_HOUSING_COMPONENT	YES/NO
50	Does the project have more than 500 sqm built up area excluding the affordable housing component	DOC_DOES_THE_PROJECT_HAVE_MORE_THAN_500_SQM_BUILT_UP_AREA_EXCLUDING_THE_AFFORDABLE_HOUSING_COMPONENT	YES/NO
51	Does project require RERA registration	DOC_DOES_PROJECT_REQUIRE_RERA_REGISTRATION	YES/NO
52	Is security deposit required	IS_SECURITY_DEPOSIT_REQUIRED	YES/NO
53	Applicable if project has Building Block with entire façade made of Glass	IS_BLOCK_1_HAVING_ENTIRE_FA CADE_IN_GLASS	YES/NO
54	Applicable if EIDP fee is applicable for project	PROJECT_VALUE_IN_INR_IF_EIDP_FEE_IS_APPLICABLE_FOR_PROJECT	Numeric value with decimal / NA
55	Applicable if the project is by State Govt or Central Govt or Govt Undertaking	IS_THE_PROJECT_BY_STATE_GOV T_OR_CENTRAL_GOV_T_OR_GOV_T_UNDER_TAKING	YES/NO
56	Number of temporary structures if any present at site	NUMBER_OF_TEMPORARY_STRUCTURES_IF_PRESENT_AT_THE_SITE=Whole numeric value /NA	Whole numeric value /NA
57	Applicable if project is required to provide EWS provision	HAS_PROJECT_PROVIDED_MIN_10_PER_BUA_FOR_EWS_WITHIN_5_KM_FROM_PROJECT_SITE=YES/NO	YES/NO
58	Applicable if project has TDR provision	ADDITIONAL_TDR_IF_APPLICABLE_M2=Numeric value with decimal/NA	Numeric value with decimal/NA
59	Is the project by State Government or Central Government undertaking	IS_THE_PROJECT_BY_STATE_GOV T_OR_CENTRAL_GOV_T_OR_GOV_T_UNDER_TAKING=YES/NO	YES/NO

60	Applicable only for Addition & Alteration service only	BLK_1_SETBACK_FRONT_EXISTING	Numeric value with decimal/NA
61	Applicable only for Addition & Alteration service only	BLK_1_SETBACK_REAR_EXISTING	Numeric value with decimal/NA
62	Applicable only for Addition & Alteration service only	BLK_1_SETBACK_LEFT_EXISTING	Numeric value with decimal/NA
63	Applicable only for Addition & Alteration service only	BLK_1_SETBACK_RIGHT_EXISTING	Numeric value with decimal/NA
64	Applicable only for Mixed Use Project	COLOUR_CODE_OF_PRINCIPAL_USE_OF_THE_BUILDING_IN_CASE_OF_MIXED_USE_PROJECTS	Colour code of primary occupancy type/NA
65	Applicable only for Waste water treatment	IS_PROJECT_HAVING_SEWERAGE_CONNECTION.	YES/NO
66	Applicable only in case city is Puri , Konark , Puri Konark Development Authority , Nimapara	WHETHER_PLOT_FALLS_WITHIN_100_M_OF_GRAND_ROAD	YES/NO
		WHETHER_PLOT_FALLS_WITHIN_3_KM_AIRIAL_RADIUS_DISTANCE_OF_SRI_JAGANNATH_TEMPLE	YES/NO
		CRZ_NUMBER_FOR_PROJECTS_FALLING_UNDER_CRZ_AREA	o/NA
67	Do you want to avail lift count relaxation as per section 42.2.2 of ODA rules?	DO_YOU_WANT_TO_AVAIL_LIFT_COUNT_RELAXATION_AS_PER_SECTION_42_2_2_OF_ODA_RULES	YES/NO/NA
68	Is the project only LIG or EWS	IS_PROJECT_ONLY_LIG_OR_EWS	YES/NO
69	Is the project coming under affordable housing scheme as per Housing for All Policy 2022	IS_THE_PROJECT_COMING_UNDER_AFFORDABLE_HOUSING_SCHEME_AS_PER_HOUSING_FOR_ALL_POLICY_2022	YES/NO
70	Applicable only for Shop-cum-Residential project.	IS_PROJECT_COMING_UNDER_SHOP_CUM_RESIDENTIAL_OCCUPANCY	YES
		ARE_THE_PLOTS_ALLOTTED_IN_ROW	YES/NO

71	Applicable only for Work-cum-Residential project.	IS_PROJECT_COMING_UNDER_W ORK_CUM_RESIDENTIAL_OCCUPA NCY	YES
72	Is EIDP exempted for the project	IS_EIDP_EXEMPTED_FOR_THE_P ROJECT	YES/NO
73	Is the CWWC fee already paid	IS_THE_CWWC_FEE_ALREADY_PA ID	YES/NO
74	Is the project coming under special building category	IS_THE_PROJECT_COMING_UNDE R_SPECIAL_BUILDING_CATEGORY	YES/NO
75	For Hotel Sub-occupancy Is accommodation of vehicle drivers provided within site or within a distance of 250 meters radius of the premises	IS_ACCOMMODATION_OF_VEHICL E_DRIVERS_PROVIDED_WITHIN_ SITE_OR_WITHIN_A_DISTANCE_O F_250_METERS_RADIUS_OF_THE _PREMISES	YES/NO
76	Is the layout approved under section 16 of ODA Act 1982	IS_THE_LAYOUT_APPROVED_UND ER_SECTION_16_OF_ODA_ACT_19 82	YES/NO
77	For Industrial Occupancy Is the project coming within a plot allotted by IDCO and within industrial estates	IS_THE_PROJECT_COMING_WITH IN_A_PLOT_ALLOTTED_BY_IDCO_ AND_WITHIN_INDUSTRIAL_ESTAT ES	YES/NO

2.7. Layers required for generation of Building Plan PDFs from CAD files

Category	Mandatory Layer names	Sheet Size
Category A	SITE_PLAN BLK_1_FLR_1_FLOOR_PLAN (Optional)	A1
For signature, draw a polygon around the image in the corresponding layer	SITE_PLAN_SIGN	
Category B (single block)	SITE_PLAN BLK_1_FLR_1_FLOOR_PLAN (Optional)	A1
For signature, draw a polygon around the image in the corresponding layer	SITE_PLAN_SIGN	
Category B (multiple blocks)	SITE_PLAN BLK_n_FLR_n_FLOOR_PLAN	A1
For signature, draw a polygon around the image in the corresponding layer	SITE_PLAN_SIGN BLK_n_FLR_n_FLOOR_PLAN_SIGN	
Category C & Category D	SITE_PLAN BLK_n_FLR_n_FLOOR_PLAN ELEVATION_PLAN_n SECTION_PLAN_n SERVICE_PLAN	A0
For signature, draw a polygon around the image in the corresponding layer	SITE_PLAN_SIGN BLK_n_FLR_n_FLOOR_PLAN_SIGN ELEVATION_PLAN_n_SIGN SECTION_PLAN_n_SIGN SERVICE_PLAN_SIGN	

Important Notes: i) All texts in the base layer should have line weight by layer.
 ii) Images of signature should be provided in the corresponding base layer.
 iii) Images provided in the drawing should be present in the zip file along with dxf.
 iv) Make sure there are no unlinked external reference images in the drawing. To remove any unwanted references, go to the “Insert” tab, select “External References,” and click the cross symbol or choose “Detach XRef.” Alternatively, you can use the “XREF” command and delete any unresolved references manually.

1. Category of buildings under ODA ULBs

Category	Project Criteria
Category A	Height - Up to 10 m Plot Area - up to 500 sqm Excluding Special Buildings
Category B	Height - from 10 - 15 m Plot Area - From 500 sqm - 1 Acre Special Buildings Height - Upto 15 m
Category C	Height - from 15 - 30 m Plot Area - From 1 Acre - 1 Hectare Special Buildings Height - from 15 - 30 m

Category D	Height - Beyond 30 m Plot Area - Beyond 1 Hectare Special Buildings Height - Beyond 30
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2. Category of buildings under SPARIT/OTPIT ULBs

Category	Project Criteria
Category A	Height - Up to 10 m Plot Area - up to 500 sqm
Category B	Height - from 10 - 15 m Plot Area – 500sqm - 0.4ha
Category C	Height - from 15 - 30 m Plot Area - From 0.4ha – 2ha
Category D	Height - Beyond 30 m Plot Area - Beyond 2 Hectare

Frequently asked questions (FAQ)

Q1. How to fill information in PLAN_INFO layer?

A1. Provide the information required in PLAN_INFO Layer with following considerations:

- Write all the text in PLAN_INFO layer after '=' and 'space'. For eg. **PLOT_AREA_M2= 500** instead of PLOT_AREA_M2=500
- Write all the text without any applicable units. For eg. **PLOT_AREA_M2= 500** instead of PLOT_AREA_M2= 500sqm etc.
- Write all the text in Capitals. For eg. **ROAD_WIDTH**
- Write sector number in format **SECTOR_NUMBER= 23D** instead of SECTOR_NUMBER=23-D or SECTOR_NUMBER= 23 D or SECTOR_NUMBER= 23d
- Write the projected total number of building users in the format **NUMBER_OF_OCCUPANTS_OR_USERS_OR_BED_BLK_1= 5**
- Put the responses in the PLAN_INFO layer with response **YES** or **NO** or **NA** instead of **Yes** or **No** or **NA**.

Q2. How does system calculate fee for building permit?

A3. System calculates fee based on the drawing using following layers:

Fee for development of land – This will be calculated based on the Plot Area layer with color as 70.

Fee for building operation, Sanction fees, Construction worker welfare Cess (CWWC), Shelter fees and Security Deposit - will be calculated based on the Built Up Area layer with color as per Sub Occupancy

Temporary retention fees - will be flat Fee.

Purchasable FAR Fee – will be calculated based on the Per acre Benchmark Value of land to be provided in plan info and using Built Up Area layer with color as per Sub Occupancy

Q3. How should I start with the drawing preparation?

A4. Complete the drawing as per standards and guidelines required by ODA Bye Laws. The drawing should be completed as submission drawing formats. Use drawing scale 1:1 only. During or before preparation of drawing, make the UNITS settings - **Meter** and length type **Decimal** in the software (e.g. AutoCAD). Length type in primary units of dimension style shall be updated to Decimal.

Copy and Paste the Plan Info and required layers from the Drawing Template (provided in the resource section) and follow guidelines in the Drawing manual to start drawing preparation for Auto-scrutiny.

Q4. What should I do if my drawing is 'not accepted'?

A6. One can open the .dxf file, that was uploaded for scrutiny, in the drafting software that was used for drawing preparation (eg. Autocad) make the modifications in the drawing as per the scrutiny report. After update of drawing, one can resubmit the drawing for scrutiny.

Common Errors to Avoid –

1. Plan Info Not present in the Drawing
2. Not all answers are provided in Plan Info
3. Building Footprint Layer Not Present
4. Built Up Area Layer Not Present
5. Built Up area Layer Color code is not as per Drawing Manual – Occupancy Color Codes
6. Setback Layer Polygon is Drawn Incorrect – Edges of Setback Polygon should fall on Building Footprint Polygon and Plot Boundary Polygon
7. Bring only the necessary layers from Drawing Template

Q5. In which format the drawing shall be saved for scrutiny?

A7. Drawing shall be compressed to .zip format containing the .dxf file only.

Q6. How To Draw the Setback Layers for Auto scrutiny?

A7. After creation of the required setback layers with correct colour codes, draw closed polygons along the entire length of the front, rear, left and right sides of each building blocks.

The setback layer polygon drawn should have edges falling/coinciding with both the Plot area Polygon and the respective Building Footprint Polygon.

Q7. How To correctly name Polygons for Lifts, Ramps etc that have numbers at the end of the layer name?

A7. If multiple polygons needs to be created for features such as Lifts and Ramps that have different colour codes assigned to them based on different use types, Follow the bellow guidelines-

- Name all the required layers with consecutive numbers at the end keeping with common color code to denote the same use type.
- If multiple use types are required to be drawn, then each group of layers with common colour code will have the numbers starting from 1 to the required number.

E.g. 3 use types of ramps are present in same project–

Block	Use Type	No of ramps present
Block 1	LMV – 1 way	4
Block 2	LMV – 2 way	1
Block 3	LCV – 1 way	2

The naming convention for the layers to be drawn will be as follows-

LMV – 1 way with color code 1

BLK_1_FLR_o_VEHICLERAMP_1
 BLK_1_FLR_o_VEHICLERAMP_2
 BLK_1_FLR_o_VEHICLERAMP_3
 BLK_1_FLR_o_VEHICLERAMP_4

LMV – 2 way with color code 2

BLK_2_FLR_o_VEHICLERAMP_1

LCV – 1 way with color code 3

BLK_3_FLR_o_VEHICLERAMP_1
 BLK_3_FLR_o_VEHICLERAMP_2

Q8. How to avail setback exemption on side for commercial plot as per Amendment?

A8. For commercial projects complying with the ODA Amendment Rule 33/OTPIT Amendment Rule 30, Setback will be exempted on the side where Ancillary Road width has been provided. Exemption is allowed in only one side of the plot. Main entrance layer is mandatory, if you have provided ancillary road width layer. Entrance cannot be provided on the same side as the ancillary road.

For multiple block project, setback can be exempted from one side only for the entire project. For example- If setback is exempted from Left side for Block 1, then for block 2 also the same side can be exempted if applicable.

Q9. How to Provide In-Building Solutions (IBS) for Common Telecommunication Infrastructure (CTI)?

CTI is mandatory for projects having a plot size of 500 Sq.m. and above; and built-up area of 500 Sq.m. and above for the following occupancies-

- **Residential Apartment building (s) excluding Affordable Housing-**
 - Apartment Building
 - Housing Project
 - Studio Apartments
 - Medium Income Housing
- **Institutional Building-** All Institutional Buildings
- **IT buildings-** IT, ITES Buildings
- **Commercial offices and public offices**
 - Bank
 - Financial services and Stock exchanges
 - Commercial and Business Offices/Complex
 - Professional offices
 - Administrative Buildings
 - Government offices
 - Local and semi-Government offices

IBS for CTI will include the following new mandatory layers

- Entrance facility (EF)
- Main Distribution Frame (MDF)/ Equipment Room (ER)
- Telecommunication Room (TR)
- Telecommunication Enclosure (TE)

Entrance Facility (EF)- At least one EF is mandatory for the entire project and to be provided as a room on the ground or stilt floor which can be provided within any given block or as a separate block. If it is provided as a separate block, only EF can be provided in the block and the color code is 105, with mandatory dimensions. Minimum size and width to be followed as per the byelaws.

Main Distribution Frame (MDF)/ Equipment Room (ER)- At least one MDF/ER is mandatory for the entire project and to be provided on the first floor or above. Minimum size and width to be followed as per the byelaws.

Telecommunication Room (TR)- At least one TR is mandatory for each block of the project. In case, MDF is provided in any block then TR may not be provided in that block.

Telecommunication Enclosure (TE)- TE is mandatory for each floor of each block and to be provided on the first floor or above. In case TR is provided in any floor then TE may not be provided in that floor.

