

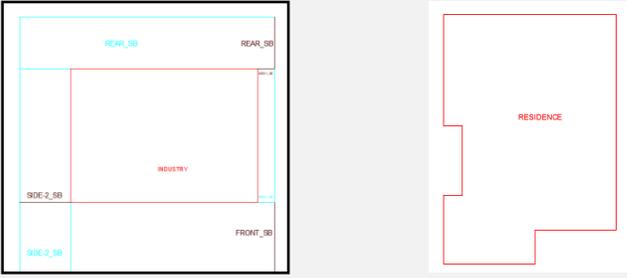
Guidelines for preparation of submission drawings for Online Building Plan Approval

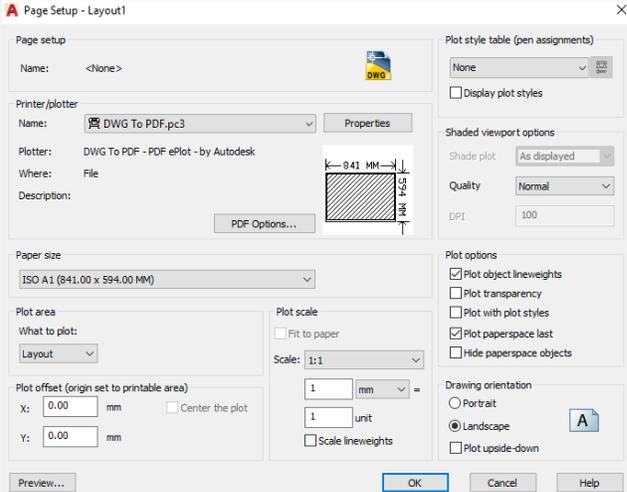
Atal Nagar Vikas Pradhikaran

Following guidelines are to be followed while preparing the submission drawings (AutoCAD platform) for proposals seeking Building Permission (Online) in the city Atal Nagar, Chhattisgarh.

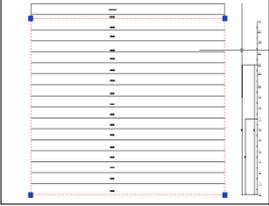
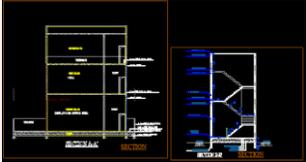
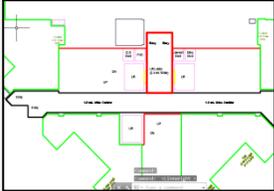
Table 1 Guidelines for submission drawings for Online Building Plan Approval

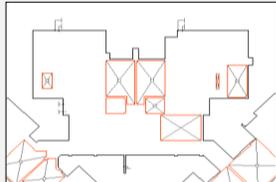
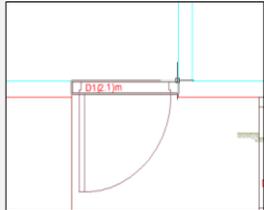
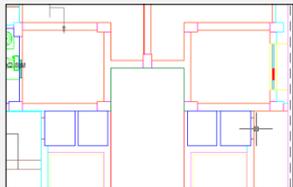
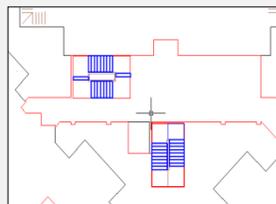
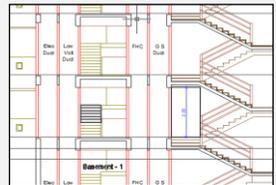
S.No	Aspect	Requirements
A	Required drawing format	.dxf
B	Drawings to be provided for Online Building Permission process	<p>Single Drawing File to be submitted instead of 4 individual drawing files. There should be minimum number of Layer in the Drawing. Other than NRDA Layers Merge unnecessary layer in single layers. The File should contain following drawings</p> <ol style="list-style-type: none"> 1. Site Plan 2. Building wise floor plans (containing all floor plans including basement) 3. Section and Elevation 4. Basement
C	Nomenclature of drawing files	1. SUBMISSION_DRAWING
D	Rule for Floor Plans	<p>All floor plans are to enclosed in a separate rectangle called "Floor Container". These floor plans are to be named as – "FLOOR-000" for ground floor, "FLOOR-001" for First Floor and so on. For typical floor plans, nomenclature to be used are- "FLOOR-002-007", where second floor to seventh floor are typical floor plans. Along with the above, following nomenclatures for MTEXT are to be used for respective cases:</p> <ol style="list-style-type: none"> 1. Basement first floor – "BASEMENT-BUILDING NAME-001" 2. Basement second floor – "BASEMENT-BUILDING NAME-002" 3. Terrace floor – "TERRACE" 4. Mezzanine floor – "MEZZANINE FLOOR" 5. Section – "SECTION" 6. Elevation – "ELEVATION" 7. Site Plan – "SITE PLAN" <p>Floor Outline should be made excluding balconies and projections(All types- Canopy, Sunshade, Chajja, projection, Porticos)</p> <p>All Labels for any kind of entity should be in basic font and NOT in bold/Italic/underline (Example- Bedroom(2.3x3.4x3.2)m)</p>
E	Rule for Building Footprint	<p>It is essential to evaluate the footprints of the proposed building. For the purpose, all the proposed buildings are to be enclosed in a polyline called building footprints. The detailed examples are illustrated in following sections.</p> <p>Building footprint must have label with naming convention as Example –RESIDENCE, ACADEMIC BLOCK, SPORTS ACADEMY Building Footprint MTEXT name = Building label on site plan</p>

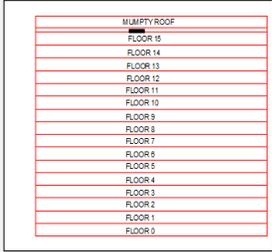
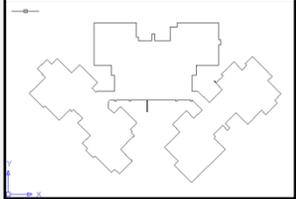
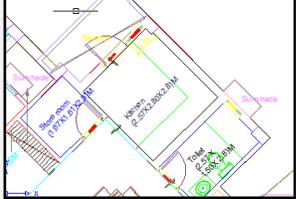
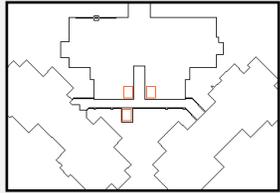
		 <p>Example : INDUSTRY, RESIDENCE</p>
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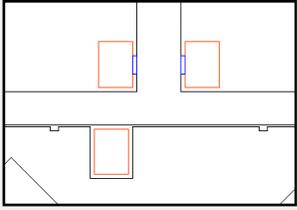
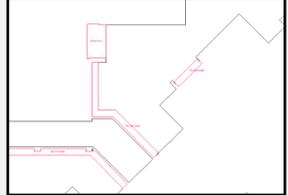
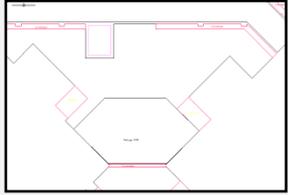
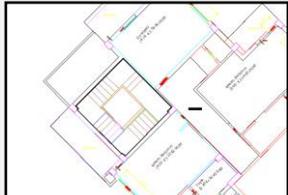
F	Rule before Uploading Drawing	<p>Drawing should be submitted in .dxf format only All NRDA Layers should be closed Polyline Submission Drawing Layout should be set as : Make Viewport in Layout Paper Size ISO A1 (Landscape) Scale 1:1 Plot Style None</p> 
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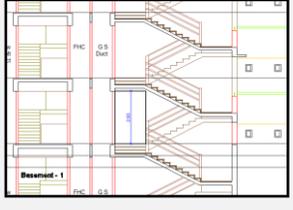
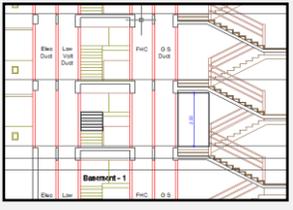
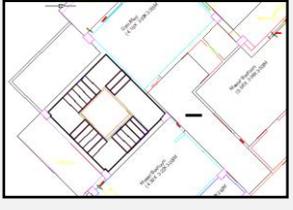
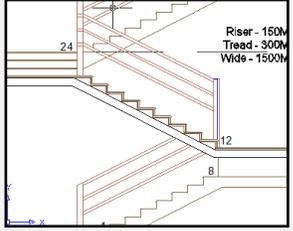
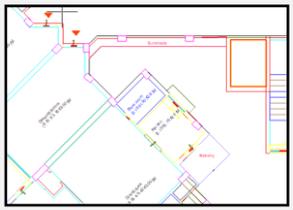
G	<p>In case of Single BLOCK in a Plot example RESIDENCE</p> <ol style="list-style-type: none"> Layers which are part of SITE_PLAN drawing or 'Site plan' should be as NRDA_LAYER NAME Example NRDA_PLOT Layers which are part of old BUILD_RESIDENCE drawing or 'Built-up' should be named as NRDA_BU_BLOCK NAME_LAYER NAME Example NRDA_BU_RESIDENCE_KITCHEN Layers which are part of old SECTION_ELEVATION_RESIDENCE drawing or 'Section-Elevation' should be named as NRDA_SE_BLOCK NAME_LAYER NAME Example NRDA_SE_RESIDENCE_FLOOR_HEIGHT <p>In case of Multiple BLOCK in a Plot example SCHOOL/INDUSTRY/PSP etc.</p> <ol style="list-style-type: none"> Layers which are part of SITE_PLAN drawing or 'Site plan' should be as NRDA_LAYER NAME Example NRDA_PLOT Layers which are part of old BUILD_ACADEMIC BLOCK drawing or 'Academic Block' should be named as NRDA_BU_BLOCK NAME_LAYER NAME Example NRDA_BU_ACADEMIC_BLOCK_LIFT Layers which are part of old BUILD_SPORTS ACDMY drawing or 'SPORTS ACDMY' should be named as NRDA_BU_BLOCK NAME_LAYER NAME Example NRDA_BU_SPORTS_ACDMY_CORRIDOR Layers which are part of old SECTION_ELEVATION_ACADEMIC BLOCK drawing should be named as NRDA_SE_BLOCK NAME_LAYER NAME Example NRDA_SE_ACADEMIC_BLOCK_FLOOR_HEIGHT Layers which are part of old SECTION_ELEVATION_SPORTS ACDMY drawing should be named as NRDA_SE_BLOCK NAME_LAYER NAME Example NRDA_SE_SPORTS_ACADEMY_BUILDING_HEIGHT 	
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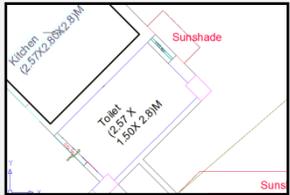
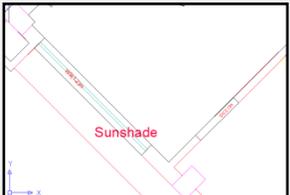
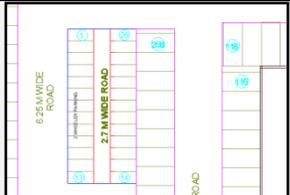
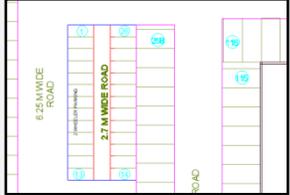
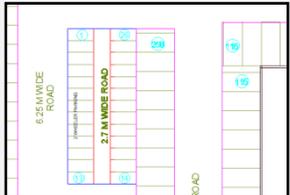
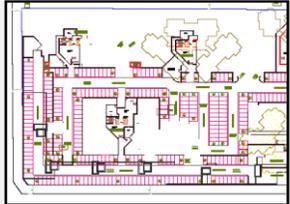
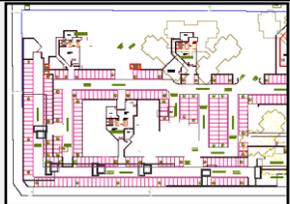
H						
Layer Name, Description, Types of Features, naming convention(labels), examples of drawings Note: All drawing units should be in meters						
S.No	Layer Name	Description	Type of feature	To be read from	Naming Conventi on	Example in drawing
1A	NRDA_SE_BUILDING NAME_BUILDING_HEIGHT	NRDA_SE_BUILDING NAME_BUILDING_HEIGHT Polygon is used to calculate the complete height of the building including plinth level and excluding Parapet and Mumpty heights <i>Note: The building height should be starting from the ground level to the bottom of the parapet on terrace level</i>	Poly line (Closed)	Elevation		
1B	NRDA_SE_BUILDING NAME_BUILDING_HEIGHT_LINE	NRDA_SE_BUILDING NAME_BUILDING_HEIGHT -LINE Polygon is used to calculate the complete height of the building including plinth level and excluding Parapet and Mumpty heights <i>Note: The building height line will be used in case the Building Elevation/Section Width is very less in compare to building Height.</i>	Line	Elevation		
2	NRDA_BU_BUILDING NAME_COMMON	NRDA_BU_BUILDING NAME_COMMON Polygon is used to calculate the total area of the common areas (which includes entrance lobby, Common hall, Waiting area etc.)	Poly line (Closed)	Plan		
3	NRDA_BU_BUILDING NAME_CORRIDOR <i>Note : Text and polygon should be kept on same layer</i>	NRDA_BU_BUILDING NAME_CORRIDOR Polygon is used to determine the area of corridor for deductions from built up area	Poly line (Closed)	Plan	Example - CORRIDO R(1.5)m	

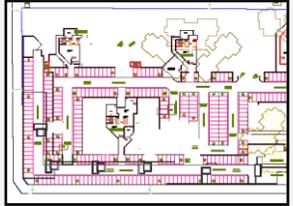
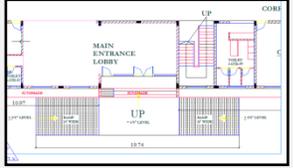
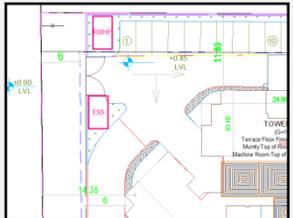
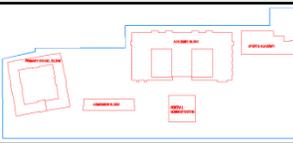
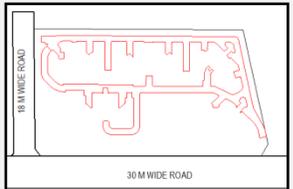
4	NRDA_BU_BUILDING NAME_CUTOUTS	NRDA_BU_CUTOUTS Polygon is used to determine the area of Cutouts on every floor for deductions from built up area	Poly line (Closed)	Plan		
5	NRDA_BU_BUILDING NAME_DOOR <i>Note :</i> <i>Text and polygon</i> <i>should be kept on</i> <i>same layer</i>	NRDA_BU_DOOR Polygon is used to determine the width of the door automatically and the height of the door is to be filled as MText as in example given.	Poly line (Closed)	Plan	Example - D1(2.1m)	
6	NRDA_BU_BUILDING NAME_DUCTS	NRDA_BU_BUILDING NAME_DUCTS Polygon is used to determine the area of ducts on every floor for deductions from built up area	Poly line (Closed)	Plan		
7	NRDA_BU_BUILDING NAME_FIRE_STAIR_FL IGHT	NRDA_BU_FIRE_STAIR_FL IGHT Polygon is used to determine width of the fire staircase	Poly line (Closed)	Plan		
8	NRDA_BU_BUILDING NAME_FIRE_STAIR_TR EAD	NRDA_BU_FIRE_STAIR_TR EAD Polygon is used to determine the no. Of treads in each stair and minimum width of each tread	Poly line (Closed)	Plan		
9	NRDA_SE_BUILDING NAME_FIRE_STAIR_RI SER	NRDA_SE_FIRE_STAIR_RIS ER Polygon is used to determine the no. Of risers in each stair and minimum height of each riser	Poly line (Closed)	Section		
10	NRDA_BU_BUILDING NAME_FIRE_STAIRCAS E	NRDA_BU_FIRE_STAIRCAS E Polygon is used to determine the No. Of Fire staircase availability in a building and area of the complete staircase area	Poly line (Closed)	Plan		

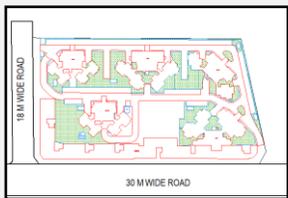
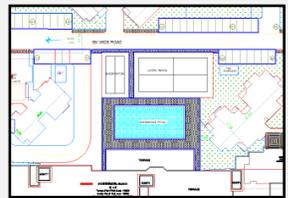
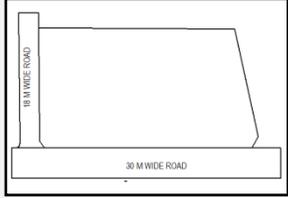
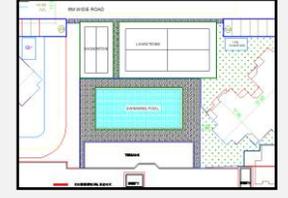
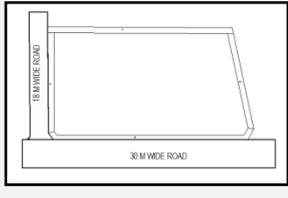
11	Site Plan – NRDA_FLOOR_CONTA INER; Builtup – NRDA_BU_BUILDING NAME_FLOOR_CONTA INER; Section Elevation - NRDA_SE_BUILDING NAME_FLOOR_CONTA INER;	NRDA_FLOOR_CONTAINE R Polygon is used to determine the Floor number which has to be a closed polygon around the floor plan with label name of floor number. Floor Container Should be separate for each type of Drawings. E.g.	Poly line (Closed)	Plan	Refer Clause D of the Table 1.	
12	NRDA_SE_BUILDING NAME_FLOOR_HEIGH T	NRDA_SE_FLOOR_HEIGHT Polygon is used to determine the height of the floor Floor Number to be written inside polygon In case of Basement present (height to be drawn in SECTION_ELEVATION drawing)	Polyline(Clos ed)	Elevation	Example – FLOOR- 000 FLOOR- 001 BASEMEN T	
13	NRDA_BU_BUILDING NAME_FLOOR_OUTLI NE	NRDA_BU_BUILDING NAME_FLOOR_OUTLINE Polygon is used to determine the gross area of the floor including lift, staircase, corridors, cutouts with balcony exceptions	Polyline(Clos ed)	Plan		
14	NRDA_BU_BUILDING NAME_KITCHEN	NRDA_BU_BUILDING NAME_KITCHEN Polygon is used to determine the area of the kitchen and dimensions of the kitchen to be labeled on drawing	Polyline(Clos ed)	Plan	Example – Kitchen (LxBxH) (2.57X2.8 0X2.8)m	
15	NRDA_BU_BUILDING NAME_LIFT	NRDA_BU_BUILDING NAME_LIFT Polygon is used to determine the No. of lifts in the building and also to determine the internal dimensions of lift well	Polyline (Closed)	Plan		

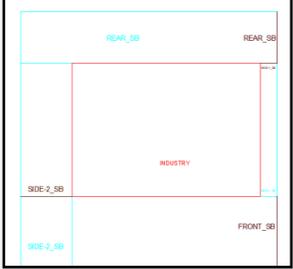
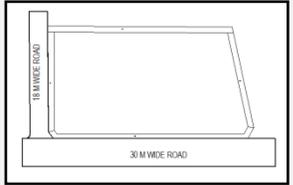
16	NRDA_BU_BUILDING NAME_LIFT_DOOR	NRDA_BU_BUILDING NAME_LIFT_DOOR Polygon is used to determine the width of the lift door. Also it is mandatory to draw door attached to every NRDA_LIFT Polygon	Polyline (Closed)	Plan		
17	NRDA_BU_BUILDING NAME_PROJECTIONS	NRDA_BU_BUILDING NAME_PROJECTIONS Polygon is used to determine the number and area of all the types of projections (cornice , roof, weather shade, Sunshade , canopy Projected balcony at higher floors ,Projecting Rooms balconies)	Polyline (Closed)	Plan	Example – BALCONY , SUNSHAD E	
18	NRDA_BU_BUILDING NAME_REFUGE AREA	NRDA_BU_REFUGE_AREA Polygon is used to whether refuge area is present in the building and to determine its area.	Polyline (Closed)	Plan		
19	NRDA_BU_BUILDING NAME_ROOMS	NRDA_BU_BUILDING NAME_ROOMS Polygon is used to determine the area of the room and dimensions of the room to be labeled on drawing	Polyline(Clos ed)	Plan	Example- Bedroom (LxBxH) (3.45 X 4.16 X3.00)m	
20	NRDA_BU_BUILDING NAME_SHAFT	NRDA_BU_SHAFT Polygon is used to determine the area of shaft on every floor for deductions from built up area	Polyline(Clos ed)	Plan		
21	NRDA_BU_BUILDING NAME_STAIR_AREA	NRDA_BU_STAIR_AREA Polygon is used to determine the No. Of staircase availability in a building and area of the complete staircase area	Polyline(Clos ed)	Plan		
22	NRDA_BU_BUILDING NAME_SPIRAL_STAIR	NRDA_BU_SPIRAL_STAIR Polygon is used to determine the provision of spiral staircase in a building and diameter of the spiral staircase.				

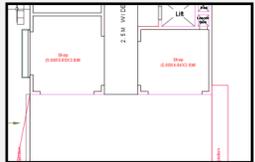
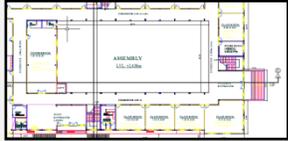
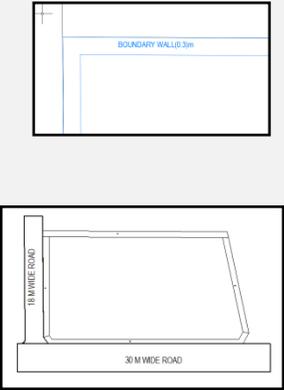
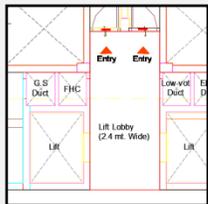
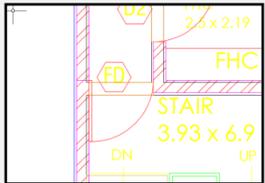
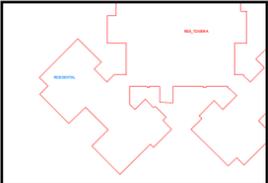
23	NRDA_BU_BUILDING NAME_STAIR_FLIGHT	NRDA_BU_FIRE_STAIR_FLIGHT Polygon is used to determine width of the staircase	Polyline(Closed)	Plan		
24	NRDA_SE_BUILDING NAME_STAIR_HEADROOM	NRDA_SE_STAIR_HEADROOM Polygon is used to determine the clear height in the staircase area	Polyline(Closed)	Section		
25	NRDA_SE_BUILDING NAME_STAIR_RISER	NRDA_SE_STAIR_RISER Polygon is used to determine the number of risers in staircase and height of riser	Polyline(Closed)	Section		
26	NRDA_BU_BUILDING NAME_STAIR_TREAD	NRDA_BU_STAIR_TREAD Polygon is used to determine the number of tread in staircase and width of tread	Polyline(Closed)	Plan		
27	NRDA_SE_BUILDING NAME_STAIR_RAILING	NRDA_SE_STAIR_RAILING Polygon is used to determine the height of the railing	Polyline(Closed)	Section		
28	NRDA_BU_BUILDING NAME_STORE_ROOM	NRDA_BU_STORE_ROOM Polygon is used to determine the area of the store room and dimensions of the store room to be labeled on drawing	Polyline(Closed)	Plan	Example – Store room (1.67X1.6 1X2.8)m	
29	NRDA_BU_BUILDING NAME_TOILET	NRDA_BU_TOILET Polygon is used to determine the area of the toilet and dimensions of the toilet to be labeled on drawing	Polyline (Closed)	Plan	Example – Toilet (2.57 X 1.50X2.8) m WC-	

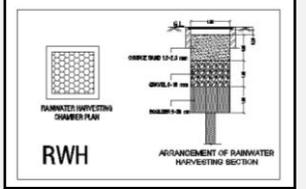
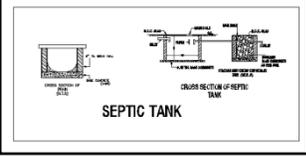
					Water Closet ,WB- Wash Basin	
30	NRDA_BU_BUILDING NAME_VENTILATOR	NRDA_BU_VENTILATOR Polygon is used to determine the width of the ventilator automatically and the height of the ventilator is to be filled as MText as in example given	Polyline (Closed)	Plan	Example - V1(0.6)m	
31	NRDA_BU_BUILDING NAME_WINDOW	NRDA_BU_WINDOW Polygon is used to determine the width of the window automatically and the height of the ventilator is to be filled as MText as in example given	Polyline (Closed)	Plan	Example - W9(1.2)m	
32A	NRDA_BASEMENT_PA RKING_SLOT	NRDA_BASEMENT_PARKI NG_SLOT Polygon is used to determine the total no. of parking	Polyline (Closed)	Plan		
32B	NRDA_BASEMENT_PA RKING_DRIVEWAY	NRDA_BASEMENT_PARKI NG_DRIVEWAY Polygon is used to determine the area of Driveway for vehicle Movement.	Polyline (Closed)	Plan		
32C	NRDA_BASEMENT_PA RKING	NRDA_BASEMENT_PARKI NG Polygon is used to determine the Total area of Driveway, total area of Parking Slot and other infrastructure space in the parking area	Polyline (Closed)	Plan		
33A	NRDA_PARKING	NRDA_PARKING Polygon is used to determine the Total area of Driveway, total area of Parking Slot and other infrastructure space in the parking area	Polyline (Closed)	Plan		
33B	NRDA_PARKING_SLOT	NRDA_PARKING_SLOT Polygon is used to determine the total no. of parking	Polyline (Closed)	Plan		

33C	NRDA_PARKING_DRIVEWAY	NRDA_PARKING_DRIVEWAY Polygon is used to determine the area of Driveway for vehicle Movement.	Polyline (Closed)	Plan		
34	NRDA_BU_BUILDING_NAME_RAMP	NRDA_BU_RAMP Polygon is used to determine the width and length of the ramp provided in the building	Polyline (Closed)	Plan		
35	NRDA_ABUTTING_ROAD	NRDA_ABUTTING_ROAD Polygon is used to determine the width of the road connecting to the plot	Polyline (Closed)	Site plan	Example – 30 M WIDE ROAD	
36	NRDA_AMENITIES (rain water harvesting, ESS, garage, suction tank, pump room, sanitary block)	NRDA_AMENITIES Polygon is used to determine the types of amenities on site. The amenities have to be labeled accordingly in MText	Polyline (Closed)	Site plan	Example – ESS (Electric substation)	
37A	NRDA_BUILDING_FOOTPRINT	NRDA_BUILDING_FOOTPRINT Polygon is used to determine the No. of Blocks and area per block on site Each Block Should have its name in MTEXT .	Poly line (Closed)	Site plan	Example of MTEXT -ACADEMIC BLOCK, ADMISSION BLOCK, SPORTS ACADEMY, INDUSTRY, RESIDENCE	
38	NRDA_INTERNAL_ROAD	NRDA_INTERNAL_ROAD Polygon is used to determine the total area of internal roads all over the site	Polyline (Closed)	Site plan		

39	NRDA_OPEN_SPACES	NRDA_OPEN_SPACES Polygon is used to determine the total area of open spaces on site other than open parking and amenities	Polyline (Closed)	Site plan		
40	NRDA_PATHWAYS	NRDA_PATHWAYS Polygon is used to determine the area of pathways on site	Poly line (Closed)	Site plan		
41	NRDA_PLOT	NRDA_PLOT Polygon Is used to determine the area of the plot	Polyline (Closed)	Site plan		
42	NRDA_RECREATIONAL	NRDA_RECREATIONAL Polygon is used to determine the area of recreational area on site	Polyline (Closed)	Site plan		
43 A	NRDA_SETBACKS	NRDA_SETBACKS Polygon is used to determine the width of the setbacks on all side of plot Mtext for Sides Siteplan Setbacks Front – FRONT Rear – REAR Side1 – SIDE-1 Side2 – SIDE-2 Floor 1 Front – FRONT_F1 Rear – REAR_F1 Side1 – SIDE-1_F1 Side2 – SIDE-2_F1 Floor 2 Front – FRONT_F2 Rear – REAR_F2 Side1 – SIDE-1_F2 Side2 – SIDE-2_F2	Polyline (Closed)	Site plan	Example – FRONT	
43 B	NRDA_FRONT_SB; NRDA_REAR_SB;	These Setback Lines are used to determine the width of the setbacks on	Line	Site plan	Setback Layer will be in	

	<p>NRDA_S1_SB; NRDA_S2_SB</p>	<p>all side of plot. In case the setbacks width are large in the Big Plot due to Very small Builtup. In case the Setback Polyline are in Irregular shape/not in Rectangular shape/Triangular shape or more than 4 angles</p> <p>Front setback – NRDA_FRONT_SB; Rear setback – NRDA_REAR_SB; Side1 setback- NRDA_S1_SB; Side2 setback- NRDA_S2_SB</p> <p>MTEXT is Compulsory in this Layer</p>		<p>form of Line</p> <p>separate MTEXT should be there for each Setback line respectively</p> <p>Front setback – FRONT_SB; Rear setback – REAR_SB; Side1 setback- NRDA_S1_SB; Side2 setback- NRDA_S2_SB</p>	
<p>43 C</p>	<p>NRDA_BASEMENT_SETBACKS</p>	<p>NRDA_BASEMENT_SETBACKS Polygon is used to determine the width of the setbacks on all side of plot</p> <p>Mtext for Sides Siteplan Setbacks Front – FRONT Rear – REAR Side1 – SIDE-1 Side2 – SIDE-2</p> <p>Floor 1 Front – FRONT_F1 Rear – REAR_F1 Side1 – SIDE-1_F1 Side2 – SIDE-2_F1</p>	<p>Polyline (Closed)</p>	<p>Basement</p> <p>Example – FRONT</p>	
<p>44</p>	<p>NRDA_INDUSTRIAL_UNIT</p>	<p>NRDA_INDUSTRIAL_UNIT Polygon is used to calculate the area and dimension of an industrial unit</p>	<p>Poly line (Closed)</p>	<p>Plan</p> <p>Example- Raw Material (LxBxH) (3.45 X 4.16 X3.00)m</p>	

45	NRDA_COMMERCIAL_UNIT	NRDA_COMMERCIAL_UNIT Polygon is used to calculate the area and dimension of a commercial unit	Poly line (Closed)	Plan	Example-Office (LxBxH) (3.45 X 4.16 X3.00)m	
46	NRDA_INTERNAL_OPEN_SPACE	NRDA_INTERNAL_OPEN_SPACE is used to calculate the area of the open to sky areas inside a building like courtyard, atrium or planters This is not to drawn in the NRDA_CUTOUT layer	Poly line (Closed)	Plan		
47	NRDA_BOUNDARY_WALL	NRDA_BOUNDARY_WALL is used to calculate the area of boundary wall	Polyline (Closed) MTEXT should be there for each part of boundary wall. e.g. – BDW1, BDW2, BDW3, BDW4 etc... Boundary wall should be Rectangular Polyline.	Plan	Example-Boundary wall width should be 20 cm If boundary wall are in 4 parts then the MTEXT should be as BDW1, BDW2, BDW3, BDW4	
48	NRDA_BU_BUILDING_NAME_LIFT_LOBBY	NRDA_BU_LIFT_LOBBY is used to calculate the dimensions of the lift lobby	Poly line (Closed)	Plan		
49	NRDA_BU_BUILDING_NAME_FIRE_DOOR	NRDA_BU_FIRE_DOOR is used to find the presence of fire door in the building adhering to fire safety norms	Poly line (Closed)	Plan	Example-FD(2.1)m	
50	NRDA_BUILDING_NAME_BUILDING_USE	NRDA_BUILDING_USE is used to find the types of building use on site	MText	Site Plan	Example-	

51	NRDA_RWH	NRDA_RWH is used to determine if the Rain Water Harvesting facility is provided on the site	JPEG format	Submissi on Drawing		
52	NRDA_SEPTIC_TANK	NRDA_SEPTIC_TANK is used to determine if the Septic Tank is provided on the site or not.	JPEG format	Submissi on Drawing		
53	NRDA_ARCHITECT_SIGN N	<p>NRDA_ARCHITECT_SIGN is necessary in Submission drawing format</p> <p>Add Signature in form of Image with separate</p> <ol style="list-style-type: none"> i) Open JPEG/PNG Signature in Paint ii) Copy Signature iii) Paste Special (PASTESPEC) in AutoCAD iv) Save the Dxf 	JPEG format			
54	NRDA_OWNER_SIGN	<p>NRDA_OWNER_SIGN is necessary in Submission drawing format</p> <ol style="list-style-type: none"> i) Open JPEG/PNG Signature in Paint ii) Copy Signature iii) Paste Special (PASTESPEC) in AutoCAD iv) Save the Dxf 	JPEG format			