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|-----------------------|--|
| <b>Document Name:</b> | General guidelines for Shape (.shp) files creation |
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| <b>Date</b>           | 11 July 2025                                       |
| <b>Version</b>        | 1.0  |

## **Attribute Details**

| <b>Attribute Name</b> | <b>Remarks</b>  |
|-----------------------|---|
| BlockId               | <ul style="list-style-type: none"> <li>- Represent Block / Sector ID.</li> <li>- Fill '1' for all polygons if no block / sector defined in scheme</li> <li>- If multiple block / sector exists in scheme, block id will starts from 1 and continue number for block / sector count. i.e. If any scheme having 10 nos of block / sector, block ids will be 1 to 10 as continuous number.</li> <li>- Fill Number only.</li> </ul> |
| BlockName             | <ul style="list-style-type: none"> <li>- Represent Block / Sector Name.</li> <li>- Any Name can be given for given Block ID but name should be same for same block. i.e if a block id 1 having 100 polygons, sector / block name of these 100 polygons will be same.</li> <li>- Block Name should be filled in capital letters only</li> </ul>  |
| PlotNo                | <ul style="list-style-type: none"> <li>- Plot No.</li> <li>- Each polygon of the scheme must have plot no.</li> <li>- Can be alphanumeric.</li> </ul>   |
| PlotSzDim             | <ul style="list-style-type: none"> <li>- Plot Dimension [i.e. 12M x 21M, 30 Feet x 60 Feet etc.]</li> </ul>   |
| SiPlanArea            | <ul style="list-style-type: none"> <li>- Area as per site plan with decimal number</li> <li>- Site Plan area entered by builder / developer must be in the range of <math>\pm 0.01</math> meter tolerance with respect to auto calculated area of polygon by GIS System</li> </ul>  |
| SiPlanUid             | <ul style="list-style-type: none"> <li>- ID to be entered as per Site Plan Master Table, attached below.</li> </ul>   |
| PlotUseId             | <ul style="list-style-type: none"> <li>- ID to be entered as per Use Master Table, attached below.</li> </ul>   |
| PlotSubUid            | <ul style="list-style-type: none"> <li>- ID to be entered from Sub Use Plan Master Table, attached below.</li> </ul>  |
| IsCorner              | <ul style="list-style-type: none"> <li>- '1' for Yes / '0' for No</li> </ul>  |
| FacingType            | <ul style="list-style-type: none"> <li>- To be entered from Facing Master Table, attached below.</li> </ul>   |
| RoadType1             | <ul style="list-style-type: none"> <li>- Road ID as per Road Master</li> <li>- Road 1 is mandatory for all polygons</li> </ul>  |
| RoadType2             | <ul style="list-style-type: none"> <li>- Road ID as per Road Master</li> <li>- Road 2 is mandatory for polygons having IsCorner as '1' all polygons</li> </ul>  |
| IsMortProp            | <ul style="list-style-type: none"> <li>- ID to be entered as per mortgage master</li> </ul>   |
| IsResvProp            | <ul style="list-style-type: none"> <li>- ID to be entered as per reserve property master</li> </ul>   |
| BelongJDA             | <ul style="list-style-type: none"> <li>- ID to be entered as per Belongs to JDA master</li> </ul>   |
| SHAPE_Leng            | <ul style="list-style-type: none"> <li>- Auto populated</li> </ul>  |
| SHAPE_Area            | <ul style="list-style-type: none"> <li>- Auto populated</li> </ul>  |

## **Validations**

| <b>Validation</b>               | <b>Checklist</b>   |
|---------------------------------|--|
| Validating Schema Template      | <ul style="list-style-type: none"> <li>- Check the schema validation as per the given sample shapefile template.</li> <li>- If any attribute name is changed, schema validation failed.</li> </ul>   |
| Validating Topology Rules       | <ul style="list-style-type: none"> <li>- Polygon must not overlap to any other polygon(Area)</li> <li>- Must Not Have Gaps (Area)</li> <li>- Enter “Scheme Boundary” in PlotNo attribute for Scheme Boundary Polygon (as all plots overlaps on scheme boundary)</li> <li>- Enter “Other Land” in PlotNo attribute for gap area polygons (in case some area in boundary does not belongs to scheme, otherwise system will show gap / overlap error)</li> <li>-</li> </ul> |
| Validating Mandatory Fields     | <ul style="list-style-type: none"> <li>- All attributes are mandatory except ‘RoadType2’ attribute (RoadType2 is mandatory for corner polygons / plots)</li> <li>- Scheme Boundary Polygons and Other Land Polygons: PlotNo &amp; SiPlanArea are mandatory remaining may be left blank</li> </ul>  |
| Validating Unique Constraints   | <ul style="list-style-type: none"> <li>- ‘PlotNo’, ‘BlockId’, ‘PlotUseId’ combination should be unique throughout the scheme.</li> </ul>   |
| Validating Block ID Consistency | <ul style="list-style-type: none"> <li>- Confirm that BlockName and BlockId pairs are unique and follow a sequential order.</li> </ul>   |

## **Use Master:**

| Useld | UseDesc               |
|-------|-----------------------|
| 1     | Residential           |
| 2     | Commercial            |
| 3     | Institutional         |
| 4     | Group Housing         |
| 5     | Motel                 |
| 6     | Hotel                 |
| 7     | Petrol Pump           |
| 8     | Resort                |
| 9     | JvvnI                 |
| 10    | Electrical Substation |
| 11    | Industrial            |
| 12    | Flatted               |
| 13    | Farmhouse             |
| 14    | Mix Use               |
| 15    | Park                  |
| 16    | Facility Area         |
| 17    | Play Ground           |
| 18    | Marriage Garden       |
| 19    | WareHouse             |
| 20    | Agriculture WareHouse |
| 21    | Cng Pump              |
| 22    | Eco Friendly house    |
| 23    | Institution           |

## **Property Belongs To JDA Master:**

| PK_Surrender To JDA Sourceld | SurrenderToJDASource   |
|------------------------------|--|
| 1                            | Sector Commercial  |
| 2                            | Right of Way   |
| 3                            | Through LPC Decision   |
| 4                            | Give and Take  |
| 5                            | Facility   |
| 6                            | 5% Reserved Land Against Group Housing / Ekal Patta 20000 Sqmt |

## **Sub-use Master**

| Sub Use Id | UseDesc                         |
|------------|---------------------------------|
| 1          | MIG-A                           |
| 2          | EWS                             |
| 3          | LIG                             |
| 4          | Retail Shop                     |
| 5          | Constructed Shop                |
| 6          | Hospital                        |
| 7          | Power Station                   |
| 8          | Discrepancy                     |
| 9          | Police Station                  |
| 10         | PHED                            |
| 11         | Community Centre                |
| 12         | Water Works                     |
| 13         | School                          |
| 14         | Temple                          |
| 15         | Club House                      |
| 16         | Shopping Center                 |
| 17         | Shamshan Ghat                   |
| 18         | Service Station                 |
| 19         | Sports Facility                 |
| 20         | Hostel Facility                 |
| 21         | Fire Station                    |
| 22         | Lake                            |
| 23         | University                      |
| 24         | IT                              |
| 25         | Other Technical                 |
| 26         | Higher Education                |
| 27         | Medical                         |
| 28         | Exhibition Ground               |
| 29         | Utility                         |
| 30         | Stadium                         |
| 31         | Mobile Tower (M.T.)             |
| 32         | Solid Waste Management (S.W.M.) |
| 33         | Park                            |
| 34         | Facility                        |
| 35         | Primary School                  |
| 36         | Secondary School                |
| 37         | Service Apartment               |
| 38         | Retail Shop (kiyosk)            |

## **Unit Master (Site Plan Unit)**

| UnitId | UnitDesc  |
|--------|-----------|
| 1      | SQ. METER |
| 2      | SQ. YARD  |
| 3      | SQ. FEET  |
| 4      | ACRE      |
| 5      | HECTARE   |
| 6      | YARD      |
| 7      | FEET      |
| 8      | METER     |
| 9      | INCH      |
| 10     | BIGHA     |
| 11     | BISWA     |

## **Facing Type Master**

| FacingTypeId | FacingType |
|--------------|------------|
| 71           | East       |
| 69           | North      |
| 73           | North-East |
| 74           | North-West |
| 70           | South      |
| 75           | South-East |
| 76           | South-West |
| 72           | West       |

## **Property Reserve Master:**

| PK_Property Reserved CategoryId | PropertyReservedCategory     |
|---------------------------------|------------------------------|
| 1                               | Reserved for Future Planning |
| 2                               | Reserved for Auction         |
| 3                               | Toll Plaza                   |
| 4                               | Clover Leaf                  |
| 5                               | Low Lying Area               |
| 6                               | 25% Reserved Land For Samiti |
| 7                               | Reserved For chunk Land      |

## Road Type Master:

| RoadId | RoadWidth(meter) |
|--------|------------------|
| 2      | 30               |
| 3      | 60               |
| 4      | 80               |
| 5      | 100              |
| 6      | 9                |
| 7      | 18               |
| 8      | 100              |
| 9      | 0                |
| 10     | 12               |
| 11     | 0                |
| 12     | 30               |
| 13     | 24               |
| 15     | 40               |
| 16     | 48               |
| 17     | 60               |
| 18     | 90               |
| 19     | 3                |
| 20     | 6                |
| 21     | 36               |
| 22     | 25               |
| 23     | 20               |
| 24     | 15               |
| 25     | 75               |
| 26     | 7                |
| 27     | 10               |
| 28     | 4                |
| 29     | 5                |

## Property Mortgage Master

| Property is Mortgage   |  |
|------------------------|--|
| PK_Mortgage CategoryId | MortgageCategory                         |
| 1                      | Internal Development of Scheme<br>12.5 % |