

Checklist for Sewerage Works Planning Approval

File No:	Sewer Reticulation		Submitted Proposal	Date: Reviewer's Comments
	OK	NC		
1.0 Submission documents				
1.1 Form SSA/PDC/1 for planning application	<input type="checkbox"/>	<input type="checkbox"/>		
1.2 Catchment strategy report <i>(for permanent STP/schemed development)</i>	<input type="checkbox"/>	<input type="checkbox"/>		
1.3 Engineering report <i>(for development >150PE)</i>	<input type="checkbox"/>	<input type="checkbox"/>		
1.4 Land details Land title (type), lot no. district/mukim Land area of project (under Form PDC/1)	<input type="checkbox"/>	<input type="checkbox"/>		
2.0 Submission plans				
2.1 Layout plan of whole development For development <150PE:	<input type="checkbox"/>	<input type="checkbox"/>		
2.1.1 A plan showing how each house is to be connected with any existing or proposed sewer.	<input type="checkbox"/>	<input type="checkbox"/>		
2.1.2 The position and course of all surface water channels or drains.	<input type="checkbox"/>	<input type="checkbox"/>		
2.1.3 The names of streets adjoining the premises and the scale of the plan.	<input type="checkbox"/>	<input type="checkbox"/>		
2.2 Key Plan and Location Plan Location plan shall be clear, showing identifiable adjacent areas, main roads and other landmarks. Project area to be colored in red.	<input type="checkbox"/>	<input type="checkbox"/>		
2.3 Average Flow Average flow shall be based on 225 lit/d.PE	<input type="checkbox"/>	<input type="checkbox"/>		
2.4 Peak Flow Peak flow shall be based on a peak factor (pf= $4.7 (PE/100)^{-0.11}$) which has included contribution from infiltrations.	<input type="checkbox"/>	<input type="checkbox"/>		
2.5 Flow velocity (dry & wet weather) Minimum velocity at full bore 0.8 m/s.	<input type="checkbox"/>	<input type="checkbox"/>		
2.3 Effluent discharge point Location of the effluent receiving stream.	<input type="checkbox"/>	<input type="checkbox"/>		
3.0 Special submission requirements				
3.1 Development >50 hectares A Development Environmental Impact assessment (EIA) has to be approved by DOE	<input type="checkbox"/>	<input type="checkbox"/>		

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<p>4.0 Plans Format</p> <p>4.1 Paper size All paper to be submitted to the DGSS should be prepared on normal sizes of paper A1 or A2 , and should have a title block approved by the approving authority. All plans shall be folded to A4 size. All documents to be in A4.</p>	<input type="checkbox"/>	<input type="checkbox"/>		
<p>4.2 Format details Format details shall include the following:</p> <p>4.2.1 Plans shall show the north point, date and bear the signature of the Developer/Owner, and Consulting Engineer/Architect/Planner.</p> <p>4.2.2 Notes & abbreviations used shall be shown in footnotes.</p> <p>4.2.3 The title block shall be positioned at the bottom right-hand corner bearing the title of the development, drawing title, name and address of the Developer/Owner and the Qualified Person</p> <p>4.2.4 A space shall be reserved in the top right hand corner for SSD approval chop.</p> <p>5.0 Layout plan</p> <p>5.1 Lot boundary and numbers The boundary shall be demarcated on the</p>	<input type="checkbox"/>	<input type="checkbox"/>		
<p>5.2 Ground levels of housing lots & roads All data specified shall be according to the Survey Ordinance.</p>	<input type="checkbox"/>	<input type="checkbox"/>		
<p>5.3 Reticulation & utilities details Details shall include the following:</p> <p>5.3.1 Drainage systems, water supply lines, streets or other structures and as can be established.</p> <p>5.3.2 The location & depth of utilities that will affect or be affected by the proposed sewerage systems. Also their invert levels and sizes must be stated.</p> <p>5.3.3 The sewer reticulation must also be shown on the same plan to show sewer locations relative to these structures.</p>	<input type="checkbox"/>	<input type="checkbox"/>		
<p>6.0 Engineering Report</p> <p>6.1 Land information Information shall include the following:</p> <p>6.1.1 Land lot number & site location.</p>	<input type="checkbox"/>	<input type="checkbox"/>		

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6.1.2 Land area (hectare) & topography of project area.	<input type="checkbox"/>	<input type="checkbox"/>		
6.1.3 Topography of surrounding neighbouring lots. Specify any existing STPs or network. Include details of all sewerage in use or proposed in the adjacent areas.	<input type="checkbox"/>	<input type="checkbox"/>		
6.1.4 Water bodies (drains/rivers) that pass through project area, including the name and class of the receiving water.	<input type="checkbox"/>	<input type="checkbox"/>		
6.1.5 Existing land use of project and adjacent areas, description of future land use of adjacent area, if such information is available.	<input type="checkbox"/>	<input type="checkbox"/>		
6.1.6 Information on ground water levels and use of ground water adjacent to project area.	<input type="checkbox"/>	<input type="checkbox"/>		
<p>6.2 Project description A description of the project proposal shall include:</p> <p>6.2.1 Type of development, various types of houses/buildings and their numbers.</p> <p>6.2.2 An outline on the derivation of the wastewater generation from the proposed project based on criteria in MS1228 and Guidelines for Developer Vol. 3 & 4.</p>				
<p>6.3 Sewerage proposal The sewerage proposal shall include:</p> <p>6.3.1 A brief description of the proposal. For permanent STPs, identify and evaluate all sewerage options, including NPV and non-cost factors and provide a brief description of the preferred or selected option.</p> <p>6.3.2 An outline description of the proposed sewerage network. Show PE breakdown and calculation.</p> <p>6.3.3 An outline of the reasons for the selection of the proposed sites for construction of any pumping stations.</p> <p>6.3.4 The proposal for connection to the public sewer shall include a study on the capacity of the existing sewer and the STP.</p> <p>6.3.5 The report must bear the signature of the Engineer preparing the design as well as the report.</p> <p>6.3.6 The report must bear a suitable title, date, names of owner & consultants and have a proper cover & binding.</p> <p>6.3.7 The siting criteria, land area & buffer zone requirement for the proposed STP shall be based on per Guidelines for Developers Vol.IV</p>				