

**CHECKLIST FOR SUBMISSION AND SCRUTINY OF DPR**  
**(SEWERAGE AND SEWAGE TREATMENT)**

*(to be filled in and certified by the highest city –level Officials, both technical and administrative, such as Chief Engineer/City Engineer/ Municipal Commissioner)*

**Instructions:**

1. The DPR shall be formulated as per the Manual on Sewerage and Sewage Treatment published by the Ministry and as per the Department procedures.
2. DPR shall be technically sanctioned by the Competent Authority the State Govt./ULB before forwarding it to the Ministry.
3. Each and every page has to be signed at the bottom by the officials.
4. Each field has to be filled in appropriately as 'yes', 'no', 'not required', 'not done', 'not used' etc. No field has to be left blank. Give explanatory comments wherever 'no' is indicated.
5. Non- definite entries such as 'will be done later', 'will be furnished later' etc. will not be accepted.

**CERTIFICATE:**

This is to certify that that the undersigned have read the contents of the check list fully and have responsibly made the entries true to the best of knowledge and understanding. In case the information furnished in the check list enclosed is found to be incorrect for any reason, whatsoever, the undersigned may be held liable for disciplinary action as per applicable Government rules.

Certified that

- (i) The designs and drawings have been approved by the Competent Authority.
- (ii) The detailed estimates and cost estimates are as per the current schedule of rate and/or rate analysis and latest pro-forma invoices (current market rates).
- (iii) The DPR has been technically sanctioned by the Competent Authority in the State Govt./ULB.

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S. No.	Description	Write 'Yes' or 'No' etc in the column below
		If <b>Yes</b> , give Page No./DPR volume reference. If <b>No</b> , reasons thereof
	<b>GENERAL COMPONENTS</b>	
1	Name of the town/city/District/State for which scheme has been formulated with name of the scheme  (a) Name of the City/Town:  (b) Name of the District:  (c) Name of the State :  (d) Name of the Scheme:	
2	Date of DPR appraised by State Level Nodal Agency (SLNA) and whether a copy of appraisal report (duly authenticated by the competent authority) has been forwarded with DPR.  (a) Date of appraisal:  (b) Name of the appraisal agency:  (c) Original Estimated cost:  (d) Appraised cost:  (e) Major comments/observations made by appraisal agency.	

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S. No.	Description	Write 'Yes' or 'No' etc in the column below
		If <b>Yes</b> , give Page No./DPR volume reference. If <b>No</b> , reasons thereof
3	Whether the commitment to launch the scheme immediately after approval of Govt. of India / Administrative approval of the scheme is appended in DPR. (Whether Administrative approval of State Government is obtained to implement the scheme immediately after approval of GOI and enclosed in DPR.)	
4	(a) Whether Project formulation justification (need for the project) has been furnished in DPR. Please justify the need of the project. Justification:  (b) Whether executive summary of the project is furnished in the DPR	
5	Whether linkages of this scheme have been established with other ongoing sewerage schemes being funded by the Central/State Govt./other agencies, if any. Pl. Furnish relevant information.	
6	Whether the map showing administrative and political jurisdiction of the project area has been given in DPR. Area within Municipal limit : ..... sq.km.  Extent of area considered in the DPR : .....sq.km.  Additional area (beyond Municipal limit) considered in the DPR: .....sq.km	
7	Whether the land use pattern of the city / town / project area as per the approved Master Plan has been given in DPR.	
8	Whether the DPR including the design, drawings, cost estimates, analysis of rates has been authenticated by Competent Authority of State Govt./ ULB and Quasi-Technical sanction of DPR / Technical & Financial Verification Certificate has been attached with DPR	

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		If <b>Yes</b> , give Page No./DPR volume reference. If <b>No</b> , reasons thereof
9	Whether the proposals for setting up STP received clearance / consent from the State Pollution Control Board	
10	In case proposed pumping main /sewer line is crossing Railway line/ Highway & their bridge (wherever applicable), whether the clearance from concerned authority such as State Pollution Control Board (SPCB), Highways, PWD, Railways has been obtained and copies of the permission and their estimate for the same has been provided in DPR.  If not, the present status of action initiated may be furnished below.	
11	Whether the provision for separate electric feeder line to the sewage treatment plant and pumping stations (to take care of frequent power failure and voltage fluctuation problem) from HT line and an agreement between Electricity Department and Urban Local Bodies (ULBs) has been furnished in the DPR	
12	Whether the commitment from Electricity Department for un-interrupted power supply is obtained	
13	Whether the Topographic map of the city/town/project area to the scale has been given in DPR/Zone wise maps to scale showing all streets.	
14	Whether soil investigation report – bore hole logs at least at a grid of 1 km x 1 km or Geological Survey Data has been forwarded with DPR.	
15	Whether Contour map of the project area has been annexed with the DPR.	
16	Whether resolution from the ULB for implementation of proposed tariff structure to ensure self-sustainability of the scheme is enclosed in DPR.	

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<b>ENGINEERING COMPONENTS</b>		
1	<p>(i) Please furnish the details of city/project area,</p> <p>(a) Area of the town/city (municipal limit): .....Sq. km</p> <p>(b) Extent of the project area considered in the DPR: .....sq. km</p> <p>(c) Additional Area(beyond municipal limit) considered in the DPR:.....sq.km</p> <p>(d) No. of Households (as per 2001 and 2011 census):</p> <p>(ii) Whether population projection has been made as per CPHEEO Manual and given in DPR</p> <p>(a) City population</p> <p style="padding-left: 40px;">As per 2001 Census : .....lakhs</p> <p style="padding-left: 40px;">As per 2011 Census : .....lakhs</p> <p style="padding-left: 40px;">Initial stage : ..... lakhs +floating population (if any)-----lakh (.....AD)( year of commissioning)</p> <p style="padding-left: 40px;">Intermediate stage : ..... lakhs+ floating population (if any)-----lakh (.....AD)</p>	

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		If <b>Yes</b> , give Page No./DPR volume reference. If <b>No</b> , reasons thereof										
	<p>Ultimate stage : ..... lakhs+ floating population (if any)-----lakh (.....AD) Population growth rate adopted: ..... %/ year (based on the past 5-6 decadal growth rate)</p> <p>Demographic Method adopted and justification :</p> <p>(b) Whether the population projection has been made in consonance with the Developmental Master Plan</p> <p>(c) Project Area (part or 100% area of the City)</p> <p>Initial stage : ..... lakhs</p> <p>Intermediate stage : ..... lakhs</p> <p>Ultimate stage : ..... lakhs</p> <p>Population growth rate adopted: ..... %/ year (based on the past 5-6 decadal growth rate)</p> <p>( d ) Zone wise population (separately)</p> <table border="1"> <thead> <tr> <th>Zones</th> <th>Initial (lakhs)</th> <th>Intermediate (lakhs)</th> <th>Ultimate (lakhs)</th> <th>Population Density (Pop/hectare)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Zones	Initial (lakhs)	Intermediate (lakhs)	Ultimate (lakhs)	Population Density (Pop/hectare)						
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	<p>Zone-I</p> <p>Zone-II</p> <p>Zone-III</p> <p>Zone-IV</p> <p>Zone-V</p> <p>Zone-VI</p> <p>Zone-VII</p> <p>Zone-VIII</p> <p>Zone-IX</p> <p>Zone-X.....etc.</p> <p>(saturation density as per master plan may be useful for sewer network design)</p> <p>(f) No. of wards (within municipal limit) : .....</p> <p>(g) Total projected population to be accommodated in the existing municipal area : ..... Lakhs ( should be in consonance with master plan and based on saturation density)</p>	

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	<p>(h) Remaining population to be accommodated in the area beyond municipal limit : ..... lakhs ( should be in consonance with master plan projection)</p> <p>(i) Whether population distribution in the municipal area and the area beyond municipal limit has been done in consultation with Town &amp; Country Planning Authority.</p> <p>(j) If yes, whether document is enclosed.</p>	
2	<p>Whether existing details of sewerage system for urban / urban agglomeration has been furnished in DPR. Please furnish details.</p> <p>(a) Total water supply in the town / city (capacity of WTP/tube well separately):</p> <p style="text-align: center;">Surface Water:.....MLD</p> <p style="text-align: center;">Ground Water:-.....MLD</p> <p>(b) Existing per capita water supply (average): City/town : Project area:</p> <p>(c) Existing per capita wastewater generation:</p> <p>(d) Total sewage generation in the city : .....MLD</p> <p>(e) Industrial treated effluent (to the desired level) being discharged in the</p>	

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		If <b>Yes</b> , give Page No./DPR volume reference. If <b>No</b> , reasons thereof
	<p style="text-align: right;">sewer system :.....MLD</p> <p>(f) Existing capacity of in city /project area STP &amp; nos. :.....MLD, .....MLD (.....Nos.)</p> <p>(g) Capacity Utilization :.....MLD</p> <p>(h) No. no. pumping stations and capacity : .....(MLD) (nos.)</p> <p>(i) % of population coverage with sewer network in the city : ..... %</p> <p>(j) %of population coverage with sewer network in the project area:.....%</p> <p>(k) % population coverage of various zones ( Zone-wise)</p> <p>Zone-I:.....%</p> <p>Zone-II:-.....%</p> <p>Zone-III:.....%</p> <p>Zone-IV:.....%.....etc.</p> <p>(l) Existing no. of House service Connections (sewer): -----nos./.....nos (Residential/commercial)</p>	
3	<p>Sewage Generation</p> <p>(a) Per capita sewage generation considered in the DPR(80% of water supply) : .....lpcd</p>	

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	(b) Sewage Generation ( City / town) (specify treated industrial effluent if any) Initial stage : ..... MLD Intermediate stage : ..... MLD Ultimate stage : ..... MLD  (c) Net capacity of Sewage Treatment Plant required – city / town Initial stage : ..... MLD Intermediate stage : ..... MLD Ultimate stage : ..... MLD  (d) Net STP capacity required – project area Initial stage : ..... MLD Intermediate stage : ..... MLD Ultimate stage : ..... MLD	
4	Whether the existing infrastructure of the sewerage system has been taken into consideration in DPR. Please furnish existing component wise details.  <b>I. Sewer Network</b>	

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		If <b>Yes</b> , give Page No./DPR volume reference. If <b>No</b> , reasons thereof
	(a) Total length of road of city/town : .....KM (b) Total length of road in project area : .....KM (c) Total length of sewer network in the town : .....KM (d) Total length of sewer network in the project area : .....KM (e) Material and age of the existing pipe : (GSW/NP2/NP3/NP4 etc) -----AD (f) Size and length of existing pipes (size wise) : .....mm (dia), .....KM (length) (g) Pipe length to be retained in the system : .....KM (h) Pipe length to be replaced (to be discarded from the existing system) : ..... KM  <b>II. Sewage Pumping main</b> Size and length and material: .....mm, (.....Km) (PSC/MS/DI etc)  <b>III. Pumping Stations:</b> Total nos. and Capacity : .....MLD ( .....nos)	

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	<p><b>IV. Sewage Treatment Plant</b></p> <p>(a) Capacity of WTP :.....MLD  (b) Existing Technology :  (c) Capacity utilization : ..... MLD  (d) Shortfall in capacity : ..... MLD  (e) Justification for up-gradation, if any  (f) : .</p>	
5	Please furnish the major project components and component-wise estimated cost (Rs, in lakhs)	
6	<p>Whether the design of sewer network, Pumping main and stations and STPs of proposed system has been provided in DPR</p> <p><b>I. Sewage network</b></p> <p>(a) Design period (30 years as per CPHEEO Manual) : .....Year  (b) Total length of road of city/town : ..... KM  (c) Total length of road in project area : ..... KM  (d) Total length of sewage network in the town : ..... KM  (e) Total length of sewage network in the project area : ..... KM  (f) Material and age of the proposed pipe : (GSW/NP2/NP3NP4)/ .....year</p>	

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	<p>(g) Size of sewage network in the town (range) : ..... mm</p> <p>(h) Size of sewage network in the project area : ..... mm</p> <p>(i) Total length of proposed line accounted for in the DPR(estimate) : .....KM</p> <p>(j) Existing/ proposed length of pipe network : .....KM/.....KM</p> <p>(k) Per capita sewage considered in the design</p> <p>(l) Ground water infiltration based on area/length of network/no. of manhole :</p> <p>(m) Peak factor adopted (2 to 3) based on population as per Manual :</p> <p>(n) Pipe material of 'n' value (coefficient of roughness – 0.011 to 0.050) : (as per manual) (specify material)</p> <p>(o) Minimum velocity considered in the design (0.6 m/s as per CPHEEO manual:-.....m/s</p> <p>(p) Maximum velocity considered in the design (3 m/s as per CPHEEO manual) :..... m/s</p> <p>(q) Actual minimum velocity:-.....m/s</p>	

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	<p>(r) Actual maximum velocity : .....m/s</p> <p>(s) Whether sewers have been designed to flow 0.8 (d/D) full at ultimate peak flow</p> <p>(t) Actual d/D ratio:</p> <p>(u) Spacing between manholes (please specify size wise) (30m -300 m depend on size of sewers as per CPHEEO Manual) :</p> <p>(v) Depth of cutting (1m -6m asp per manual) Minimum (Actual):.....M Maximum (Actual):.....M (please justify, it exceeds 6 m)</p> <p>(w) Total no. of layouts (networks) : Nos.</p> <p>(x) Total No. of nodes : Nos.</p> <p>(y) Total length of sewer network (zone wise) : KM</p> <p>(z) Proposed pipe sizes : mm</p> <p>(aa) Peak flow from the outlet of trunk sewer as per the design (zone wise)</p>	

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	<p>(Zone-I.....MLD. Zone-II.....MLD, Zone-III.....MLD, one-IV-.....MLD, Zone-V-.....MLD, Zone-VI.....MLD, Zone-VII.....MLD, Zone-VIII-.....MLD, Zone-VIX-.....MLD, Zone-X.....MLD etc)</p> <p>(ab) Total peak flow of all the outfall sewers in all zones and average flow:.....MLD/.....MLD</p> <p>(ac) Whether the average out flow from all the trunk sewer is matching the ultimate sewage generation of the city/town/project area (please specify ) :</p> <p>(ad) % of population coverage (including existing, ongoing and proposed):. : .....% (.....lakh pop)</p> <p>(age) % of area covered in the city(including existing, ongoing and proposed:.....%(.....sq.km)</p> <p><b>II. Pumping Station and Pumping main/gravity main</b></p> <p><b>Pumping Station</b></p> <p>(a) Design period (30 years for civil structure and 15 years for electro-mechanical items as per CPHEEO Manual)</p> <p>(b) Main pumping station (please specify nos. and capacity):</p> <p>(c) Types of pumping station based on dry well or wet well (please specify):</p>	

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	<p>(d) Types of pump, size of pumps, no. of pumps, capacity or flow rate of each pump, head of pumping, etc., (please specify):</p> <p>(e) Standby for pump sets (Please specify 50% or 100%) :</p> <p>(f) Total no. of pumps :</p> <p><b>Pumping main</b></p> <p>(a) No. of pumping mains &amp; capacity: .....nos/.....mm</p> <p>(b) Design period (30 years as per CPHEEO Manual) :</p> <p>(c) Whether economic size of pumping main has been done using computer software and furnished.</p> <p>(d) Pipe material used (SWG/NPZ/NP3/NP4) :</p> <p>(e) "c" value adopted (100 to 120) ( as per Manual) :</p> <p>(f) Pumping hours considered (22 to 24 hrs) : ..... hrs</p> <p>(g) Pumping Head :.....M</p> <p>(h) Pumping efficiency (60% to 80%) : %</p>	

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	<p><b>Gravity Main</b></p> <p>(a) No. of gravity mains and capacity: .....nos/.....mm            (b) Size and length : .....mm.....Km            (c) Material : .....            (d) C Value adopted : .....            (e) Available Hydraulic Head : .....M</p> <p><b>III. Sewage Treatment Plant</b></p> <p>(a) Design period (15 years as per CPHEEO Manual) : ..... year            (b) Capacity of STP (existing &amp; proposed) : .....MLD/.....MLD            (c) Proposed Technology : .....            (d) Total capacity is meeting the intermediate demand:            (e) Shortfall in capacity, if any to meet the intermediate demand : .....MLD            (f) Whether hydraulic design of STP has been done for design period of 15 years and furnished in DPR : .....            (g) Whether Life-cycle cost assessment of treatment technologies has been furnished in DPR :</p>	

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	(h) Whether a detailed note on performance of existing STP (if considered in the proposal) has been furnished in DPR (i) Whether temperature, elevation and location of the town has been taken into account while designing the process of the STP, Main pumping station wherever required and furnished in DPR (j) Whether reasons for inadequate performance of existing STP (if considered in the proposal) have been furnished in DPR	
7	House service connection (sewers) (please justify the proposed requirements) : Existing: ..... nos  Proposed : .....nos	
8	Whether the proposed scheme envisages Supervisory Control and Data Acquisition (SCADA) arrangement	
9	Whether modular approach has been adopted to facilitate "addition" units to SWTP at a future date, whenever required	
10	Whether computer Aided Design (both design & simulation) for Sewage Treatment Plant, pumping station, distribution network has been furnished in DPR	

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11	Whether the sewage characteristics of source have been tested by State Public Health Engineering Dept./Pollution Control Board/ MOEF authorized laboratory/ State Govt. authorized laboratory and furnished in DPR  Please specify BOD5: and SS:	
12	Whether treated sewage shall conform to the effluent standards notified by the respective SPCB/CPCB.	
13	Whether surge analysis using computer software for pumping main has been done and furnished in the DPR	
14	Whether Hydraulic Flow Diagram (HFD) with head loss calculation for STP and layout plan of STP with other components has been furnished in DPR	
15	(i) Whether maps of proposed sewer networks indicating RL, Node no, Link no, for all the zones (Project area ) are enclosed with the DPR.  (ii) Whether L Sections of the proposed pumping main/ gravity main, have been furnished in DPR	
16	Whether the site of the proposed STP has been located as per that earmarked in the Master Plan of the town	
17	Whether the provision of the land for land acquisition for the Sewage treatment plant, pumping stations/mains , sewer network, if any, has been made as per 30 years requirement and future expansion in the DPR  (a) Total requirement of land for:	

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	<p style="text-align: right;">STP : ..... Hectares  Pumping Stations : ..... Hectares  Laying of pumping mains: ..... Hectares  Sewer network : ..... Hectares  -----  Total : ..... Hectares  -----</p> <p>(b) Whether land in possession with Implementing Agency : Hectares</p> <p>(c) Whether Govt. land is yet to be transferred to the Implementing Agency and specify time required for transfer : .....Hectare, ..... months</p> <p>(d) Whether private land under acquisition and time required for acquisition: .....Hectare, ..... months</p> <p>(e) Status of action initiated for transfer of Govt. land and acquisition of private land (please specify) :</p>	
18	<p>Whether Bill of Qualities (BOQ) and cost estimates of individual components of sewerage system prepared as per latest SOR and copy of latest Schedule of Rates (SOR) and Pro-forma invoices have been annexed with DPR.</p> <p>(a) Schedule of Rates adopted (please specify the year): -----year</p>	

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	(b) In case the SOR adopted is old, please specify the cost index: (c) Any price escalation proposed in cost estimates (no price escalation shall be included in the DPR): (d) Whether analysis of rate has been worked out for all the items and appended with DPR (e) Whether Bill of Quantities of individual component has been furnished in DPR (f) Whether lumpsum provision for any item has been proposed, please specify	
19	Whether detailed drawing, estimation & detailed BOQ for ancillary works such as boundary wall / fencing, approach & internal road, external electrification, buildings, water supply & drainage, site development / landscaping etc. has been provided in the DPR	
20	Whether provision for road restoration, if any has been made as per CPWD/ State PWD/ Urban Local Body norms	
21	Whether detailed PERT/CPM network showing implementation schedule has been furnished in DPR	
22	Whether PPP components involved in the projects?. Please specify the components and the funding pattern by State Govt. and private sector.	
23	Whether Internal Rate of Return (IRR) / Economic Rate of Return (ERR) has been furnished in DPR	
24	Whether traffic diversion/ control management for public and workers' safety, arising out of construction phase of sewerage works have been furnished in the DPR	

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25	Whether Institutional and financial status of Project Executing Agency (PEA) has been reported in DPR	
26	Whether Operation & Maintenance cost and revenue generation details (O & M Framework – existing & proposed) has been furnished in DPR and whether the scheme is self-sustainable  (a) Existing sewage cess / charges (please furnish residential/commercial/institutional/Industries)  (b) Proposed sewage cess / charges (please furnish residential/commercial/institutional/Industries)  (c) Existing and proposed annual O&M cost:.....lakh /.....lakh  (d) Existing and proposed annual revenue :.....lakh/.....lakh	
27	Whether project implementation period of project has been furnished in DPR Specify the implementation period:.....year	

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		28	Whether Service Level Benchmarking has been furnished in DPR. Please furnish SLBs of the proposed project.																															
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Signed:  
Name:  
Designation:

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<b>This part to be filled-in by the Ministry</b>		
Sl. No	Description	Remarks
1	Details of project area (State/District/City/Town)	
2	Whether the SLNA/SLSC recommendation is attached with DPR	
3	Project cost recommended by SLNA/SLSC	
4	Period of project implementation	
5	Date of receipt of first DPR	
6	Date of final acceptance of DPR	
7	Date of checklist confirmation	
8	Date of first information sent to the State Govt. on scrutiny of check list	
9	Date of receipt of DPR after reformulation (revision), if applicable	
10	Date of DPR sent to the Appraisal Agency (CPHEEO)	
11	Date of Comments / appraisal report of appraisal agency	
12	Date of comments conveyed by the Admn. Division to the State Govts. & ULBs for revision of DPR, if any	
13	Date of Receipt of Revised DPR for appraisal	

**(Signature of Verifying Officer)**

**NOTE:** The DPR should be forwarded to the Ministry with checklist duly filled in without which the DPR shall not be processed and shall be returned to the State Government.

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Signed:

Name:  
Designation:

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Designation: