#### **CHECK LISTS**

#### **FOR**

#### **DETAILED PROJECT REPORTS**

# NATIONAL RIVER CONSERVATION DIRECTORATE MINISTRY OF ENVIRONMENT & FORESTS GOVERNMENT OF INDIA NEW DELHI 2004

#### **CHECKLISTS**

S. No.	Item
I	General guidelines for furnishing information in the checklists
II	Check list (General) for all Detailed Project Reports
III	Check list for core-scheme components of
III (A)	Interception & Diversion Detailed Project Reports &
III (B)	Sewage Treatment Plant Detailed Project Reports
IV	Checklist for Land Acquisition Detailed Project Reports
V	Checklist for Low Cost Sanitation (Community Toilet Complex) Detailed Project Reports
VI	Checklist for Crematoria Detailed Project Reports
VII	Checklist for River Front Development Detailed Project Reports
VIII	Checklist for Afforestation Detailed Project Reports
IX	Checklist for Municipal Solid Waste Management Detailed Project Reports
X	Checklist for Cattleshed & Biogas Plant Detailed Project Reports

## GENERAL GUIDELINES FOR FURNISHING INFORMATION IN THE CHECKLISTS

#### I. THE CONTEXT AND PURPOSE

The purpose of requesting to furnish the checklists along with the Detailed Project Report (DPR) of the scheme is essentially aimed at ensuring that all vital details are included in the proposal. Completeness of information would facilitate a comprehensive examination of the DPR and thus expediting the processing of the case. It is therefore not only desirable but essential also to furnish all the requested details in the DPR and cross check the same with the help of the checklists to ensure the same.

#### II. PROCEDURE FOR FILLING UP OF THE CHECKLISTS

- 1. All the items of the checklist should be completed.
- 2. Attach separate sheets for explanation, wherever required, with proper annotation (e.g., in the item 2, if details/information are to be furnished, please attach s separate sheet with the caption: Information in regard to item 2 of the checklist).
- 3. Each DPR is to be attached with the GENERAL checklist as well as checklist of relevant project/scheme.
- 4. Incomplete checklists shall not be admissible. Response such as "will be considered at the time of execution" shall also not be admissible.
- 5. In the case response is 'Yes', page number of the DPR is to be indicated where the related detail is available.
- 6. In case the response is 'Yes', page/annexure number of each sub-item is to be indicated categorically.

For example; Detailed Design – page -- to --. Drawing – Annexure -- to --.

Estimation - page -- to --.

7. Reason/justification wherever applicable should be substantiated on the basis of actual project and not on the basis of PFR.

#### **CHECK LIST (GENERAL)**

#### **FOR**

#### ALL DETAILED PROJECT REPORTS

#### CHECK LIST (GENERAL) FOR ALL DETAILED PROJECT REPORTS

S. No.	Question	Resp	onse (P	lease √)
		Yes	Page	If No,
			No.	reasons
	Will do at DDD			thereof
1.	Whether the DPR is properly page numbered and			
	indexed.			
2.	Whether the salient features of the DPR have been			
	provided <sup>1</sup>			
3.	Whether the certificate of concurrence from the			
	head of the local body in regard to following has			
	been furnished as annexure:			
	(a) the proposal and provisions made in the DPR,			
	and			
	(b) operation & maintenance (O&M) of the			
	project after the execution and the proposed			
	financial/institutional arrangements for sustainable			
	O&M thereof			
4.	Whether boundary of the project area/town has			
	been earmarked clearly on the map			
5.	Whether the copy of latest approved rates of			
	labour and material has been provided <sup>2</sup>			
6.	Whether the list of schedule of rates (SOR) has			
	been annexed with the DPR <sup>3</sup>			
7.	Whether the rates of non scheduled items like			
	pipes etc. annexed with the DPR <sup>3</sup>			
8.	Whether the copy of budgetary quotation for non			
	scheduled items like pumps, generators etc.			
	annexed with DPR <sup>3</sup>			
9.	Whether the calculations for arriving at the rates			
<b>)</b> .	for those items consisting of labour and materials			
	but not covered under Analysis of Rates have been			

Salient features of the DPR should be attached in the beginning of the DPR in order to have an idea of the project at a glance.

In case latest approved rates are few years old, justification for adopting rate of price escalation

<sup>&</sup>lt;sup>2</sup> In case latest approved rates are few years old, justification for adopting rate of price escalation to arrive at current year rates should be mentioned in the DPR and the escalated rates adopted in the estimates.

<sup>&</sup>lt;sup>3</sup> Please ensure that specification of every item has been mentioned in the estimate.

	T	I I	
	annexed with DPR		
10.	Whether soil testing report of every specific site		
	has been annexed with the DPR where provision		
	for excavation in soil, soft or hard rock has been		
	made in the DPR		
11.	Population Projection:		
11	Whether the population projection has been		
(a)	carried out adopting various methods		
11	Whether the justification for adopting the specific		
(b)	method of projected population has been		
	mentioned in the DPR		
11	Whether base year of the project has been adopted		
(c)	as the year of expected commissioning of the		
	project 4		
12.	Whether detailed measurement sheet		
	(incorporating L, B, H/D columns) for each item		
	has been annexed immediately next to the abstract		
	of cost <sup>5</sup> of the particular item in the DPR		
13.	Whether detailed drawings of the works to verify		
	the quantity mentioned in the detailed		
	measurement sheet have been annexed with the		
	DPR		
14	Whether estimate of the State Electricity Board		
(a)	has been provided in the DPR for power		
	connection (wherever applicable)		
14	Also, whether calculations to arrive at the capacity	_	
(b)	of transformer has been furnished in the		
	TECHNICAL STATEMENT of the DPR		
15.	Whether duly signed NRCD Proforma (by Project		
	Manager/Executive Engineer) giving proper		
	justification for variation from PFR to DPR has		
	been annexed		
16.	Whether O&M cost calculations have been		
	mentioned in the DPR <sup>6</sup>		
17.	Whether Bar Chart/CPM/PERT networks, based		
	on realistic time schedule of completion of		

<sup>&</sup>lt;sup>4</sup> On a realistic basis.
<sup>5</sup> Provision for any item in the DPR should not be made on Job/Lump Sum basis. Any provision made without detailing shall not be considered by the NRCD.
<sup>6</sup> NRCD guidelines are to be considered wherever applicable.

	different activities, has been annexed with the		
	DPR		
18.	Whether the cost of all DPRs is within the cost		
	approved by the CCEA		
19.	In the case where proposed cost of the scheme is		
	exceeding the CCEA approved cost, whether		
	commitment of the State Govt. to meet additional		
	cost of the scheme is available		
20.	Whether it has been ensured that the DPR has		
	been duly authenticated by the competent officer		
	of the implementing agency		

# CHECK LIST (CORE-SCHEME COMPONENTS) FOR ALL DETAILED PROJECT REPORTS

#### CHECK LIST FOR CORE-SCHEME COMPONENT DETAILED PROJECT REPORTS OF (B) SEWAGE TREATMENT PLANT SCHEMES

S. No.	Question	Response (Please		Please √)
		Yes	Page	If No,
			No.	reasons
1	Whather the DDD has been married on the basis of			thereof
1.	Whether the DPR has been prepared on the basis of			
2	detailed survey, investigation & engineering design			
2.	Whether all technical details of the items provided in			
	the project have been mentioned in the REPORT of			
2	the DPR			
3.	Whether in economic/financial analysis, different			
	I&D proposals have been considered together with			
	STP (including decentralized STPs) to arrive at the			
	present one in the DPR <sup>7</sup>			
4.	Whether a technical statement has been attached			
	which provides matching of different hydraulic levels			
	of related component of I&D in relation to STP			
	proposed			
5.	Whether a letter from the State Pollution Control			
	Board indicating quantity of treated industrial effluent			
	from ETPs contributing to discharge of drains/sewers			
	covered under the project has been attached with the			
	DPR 8			
6.	Whether the sewage characteristics (BOD, COD,			
	Nitrogen, Phosphorous, Chlorides, pH, temperature,			
	total suspended solids, volatile suspended solids and			
	faecal coliform) of the drains on a composite basis			
	have been arrived at after testing as per the CPHEEO			
	Manual			
7.	Whether the justification has been provided in the			
	DPR for higher and lower value of BOD parameter in			
	a drain <sup>9</sup>			
8. (a)	Whether a detailed note on performance of existing			
	STP (if considered in the proposal) has been provided			
	in the DPR <sup>10</sup>			

<sup>7</sup> Please include the analysis in the DPR.

<sup>&</sup>lt;sup>8</sup> Please indicate the name of industries in the DPR and linking it to the city index plan showing point of contribution of treated effluent into the drain/sewer.

9 BOD of municipal sewage normally varies in range of 150-200 mg/lt.

	11		
8. (b)	Whether reasons for inadequate performance 11 of		
	existing STP (if considered in the proposal) have been		
	provided in the DPR		
9. (a)	Whether the site of the proposed STP has been		
	located as per that earmarked in the Master Plan of the		
	town 12		
9. (b)	Whether the provision of the land for the STP has		
	been made as per 30 years requirement in the DPR for		
	Land Acquisition		
9. (c)	Whether implementing agency has proposed for		
	stabilization ponds based technology of treatment at		
	the first instance <sup>13</sup>		
9. (d)	Whether the lay out plan of proposed Ponds (or units	_	
	of other technologies) & future addition of the same		
	has been attached with the DPR		
9. (e)	Whether the STP capacity, to cater for ten years		
	requirement, has been adopted		
9. (f)	Whether modular approach adopted to facilitate "add-		
	on" units to STP at a future date, whenever required		
9. (g)	Whether the sewage treatment process has been		
	adopted on the basis of life cycle cost of different		
	prevalent technologies (including Karnal technology)		
	14		
9. (h)	Whether temperature, elevation and location of the		
	town has been taken into account while designing the		
	process of the STP, wherever required		
9. (i)	Whether detailed process and hydraulic designs		
	enclosed in DPR for units sizing		
9. (j)	Whether hydraulic drawing of the STP has been		
	annexed with the DPR		
9. (k)	Whether the treated effluent shall conform to the		
	standards mentioned in the guidelines of the NRCD,		
	which also includes that of faecal coliform		
9. (1)	Whether parameters of BOD, COD, TSS & Faecal		
	Coliform (at inlet & outlet of the STP) have been		
	indicated in the DPR		

In the case where the STP is existing in the town and not considered in the proposal, justification should be provided in the DPR for the same.

In case it is so.

12 Please attach the supporting documents with the DPR.

<sup>13</sup> If not, a certificate from the Land Acquisition Officer to the effect that land as per requirement is neither available nor/or it is not possible to change land use pattern at the suitable location for the purpose needed to be annexed with the DPR.

14 Life cycle cost analysis should include capital cost, capitalized annual O&M cost less revenue from resource recovery, and land cost. The summary of the analysis shall form an important

component of the DPR.

10.	Whether contour map of the site has been annexed		
	with the DPR		
11.	Whether all items of treatment units ( <i>Intake Chamber</i> ,		
	Screen Chamber, Grit Channel along with		
	proportional flow weir, Conveyance Main from		
	Distribution Chamber to Primary Pond/Inlet to		
	Primary Pond, Interconnections, Outlet of the Pond to		
	Effluent Channel, Effluent Channel etc., in case of		
	Stabilization Ponds) have been designed as per the		
	CPHEEO Manual and detailed drawings and		
10	estimates provided in the DPR <sup>15</sup>		
12.	Whether the provision of pretreatment units has been		
	made as per ultimate year discharge of influent so that		
	additional modules could be added as per future		
10	requirements		
13.	Whether the screen channel has been provided with		
	medium bar screen having clear opening of 20-30 mm		
14 ( )	or less to arrest floating materials		
14. (a)	Whether the embankment top width of the ponds is		
14 (1)	1.5 m to suit cost effectiveness		
14. (b)	Whether the slope of the embankment (in case of		
	<i>ponds</i> ) has been adopted on the basis of soil test report <sup>16</sup>		
14 (c)	Whether lining of the ponds has been proposed 30cm		
14. (0)	above and below the water level to control the erosion		
	of the surface due to wave action, as arrives through		
	the NRCD experience		
14 (d)	Whether lining of the ponds has also been proposed at		
11. (4)	the bottom & embankments to check the percolation		
	to sub-soil water and the justification mentioned in the		
	DPR <sup>17</sup>		
14. (e)	Whether the excavation and filling of the earth of the		
	ponds has been proposed to be carried out by adopting		
	balancing method		
14. (f)	Whether Inlet & Outlet structure of the Ponds has		
	been provided as per 'Design Manual for Waste		
	Stabilization Ponds in India' of the NRCD		
15.	Whether independent estimation & detailed		
	measurement for ancillary works such as boundary		
	wall/fencing, approach & internal road, external		
	electrification, staff quarters (as per the NRCD		
	guidelines), water supply & campus drainage, site		

Design & drawings of all civil structures are to be annexed with the DPR.

Please attach the copy of the recommendations with the DPR.

Please annex the soil report to this effect along with the recommendations with the DPR.

	development/landscaping etc. has been provided in the DPR		
16.	Whether dimensional layout plan of the site showing plan of the STP, piping, roads, staff quarters,		
	approach & internal roads, boundary wall/fencing,		
	external electrification points etc. along with land marks of surrounding area annexed with the DPR		
17.	Whether provision for establishment of laboratory for		
	analysis of important parameters of sewage/river		
	water has been made in the DPR		
18.	Whether provision for 6 months O&M of the STP for		
10 ()	stabilization purpose has been made in the DPR		
19. (a)	Whether possibilities for utilization of treated effluent		
	for agriculture irrigation, pisciculture, industrial process use etc. have been explored		
10 (b)	If so, whether estimated quantities and revenue/year		
19. (0)	as resource recovery has been given in the DPR		
19 (c)	Whether arrangements for storage of bio-gas (in the		
15. (6)	case of generation in the treatment process) has been		
	made		
19. (d)	If so, whether expected resource recovery has been		
	proposed in the DPR;		
	(i) by distributing the bio-gas to the nearby residents,		
	(ii) through power generation		
20.	Whether disposal of the treated effluent back in the		
	river has been made at the point after which it shall		
	not become the reason for health hazard to the		
	populace and a detailed note about the same has been		
21	included in the report part		
21.	Whether it has been mentioned in the DPR that the		
	tender bid for the implementation of works shall also include the O&M of the STP for 10 years		
	include the Oxivi of the STF 101 TO years		

#### **CHECK LIST**

**FOR** 

**CORE-SCHEME COMPONENTS OF** 

**INTERCEPTION & DIVERSION** 

**AND** 

SEWAGE TREATMENT PLANT

**DETAILED PROJECT REPORTS** 

#### CHECK LIST FOR CORE-SCHEME COMPONENT DETAILED PROJECT REPORTS OF (A) INTERCEPTION & DIVERSION SCHEMES

S. No.	Question	Resp	onse (I	Please $\sqrt{)}$
		Yes	Page No.	If No, reasons
				thereof
1.	Whether the DPR has been prepared on the basis			
	of detailed survey, investigation & engineering			
_	design			
2.	Whether all technical details of the items			
	provided in the project have been mentioned in the REPORT of the DPR <sup>18</sup>			
3.	Whether in economic/financial analysis, different			
	I&D proposals have been considered together			
	with STP (including decentralized STPs) to arrive			
	at the present one in the DPR <sup>19</sup>			
4.	Whether a technical statement has been attached			
	which provides matching of different hydraulic			
	levels in relation to STP proposed			
5.	Whether linkages of this scheme have been			
	established with other ongoing sewerage schemes			
	being funded by the Central/State Govt., if applicable			
6.	Whether the proposed I&D system has been so			
	designed to become a part of town's sewerage			
	system and sewage treatment facility, whenever			
	required in future			
7.	Whether a certificate to the effect that no			
	municipal sewage shall fall in the river after the			
	implementation of the proposed project has been			
	provided in the DPR			
8.	Whether the details of existing sewerage system			
	and proposal for its amalgamation with that			
	proposed in the DPR has been mentioned in			
	details in the REPORT and accounted for in the			

<sup>18</sup> e.g., size, type & length of sewer/rising main, duties of the pumps etc.
19 Please include the analysis in the DPR.

	TECHNICAL STATEMENT		
9.	Whether the area earmarked for the project in the		
	town (in A-3 size paper) showing the location of		
	the drains outfalling in the river, their names &		
	catchment area, existing and proposed major		
	works of the scheme are annexed along with		
	description of I&D proposal in the REPORT of		
	the DPR <sup>20</sup>		
10. (a)			
	has been obtained on the basis of actual discharge		
	measurement of each drain carried out for over a		
	month during dry weather <sup>21</sup>		
10. (b)	Whether sewage interception factor <sup>22</sup> and peak		
	factor of each drain has been worked out and		
	indicated in the TECHNICAL STATEMENT of		
	the DPR		
11. (a)	Whether the rate of water supply for projection of		
	sewage generation has been adopted on actual		
	basis		
11. (b)			
	than the norms of the latest CPHEEO Manual,		
	whether the estimation of sewage based on the		
	norms of the Manual has been compared with the		
	actual flow of the sewage and higher of the two		
	values taken at the time of submission of the		
	DPR, and has been adjusted at the normative		
	levels of the Manual when projecting for the		
	future and indicated in the TECHNICAL STATEMENT of the DPR		
11 (a)			
11. (c)	Whether projected minimum, average & peak discharges of each drain (in litres per second-lps		
	as well as million litres per day-mld), its		
	interception & peak factors during different		
	design years along with present sewage flow have		
	been indicated in the tabular form in the		
	REPORT & TECHNICAL STATEMENT of the		
	REFORT & TECHNICAL STATEMENT OF THE		

Bigger size map having details are to be annexed with the DRAWING part of the DPR.

Please annex the table showing the summary of minimum, average & peak discharges along with interception & peak factors with the REPORT & TECHNICAL STATEMENT of the DPR.

The sewage interception factor of each drain should be worked out on the basis of

contributory population of the catchment area of the drain and water supply rate.

	DPR		
12. (a)	Whether hydraulic design of the proposed sewer		
	has been annexed with the DPR		
12. (b)	Whether all the sewers have been checked for		
	minimum self-cleansing velocity of 0.6 m/s		
	during average flow conditions, by providing		
	proper slope		
12. (c)	Whether flow depth to diameter ratios adopted		
10	while designing sewers		
13.	Whether basis for selection of gravity		
	sewer/rising main material has been provided in the DPR <sup>23</sup>		
14.			
14.	Whether existing & proposed sewer plan annexed with the DPR		
15.	Whether bedding conditions for different reaches		
10.	of the proposed sewer have been designed as per		
	the CPHEEO Manual and the design annexed		
	with the DPR		
16.	Whether silt traps on road side, if required, as		
	gully pits to avoid silting of sewers have been		
	provided		
17.	Whether detailed manhole-to-manhole survey of		
	existing sewers has been conducted and		
	provisions for sewer cleaning if required,		
10	accordingly, made in the DPR		
18.	Whether manhole size & spacing have been		
19.	adopted as per the CPHEEO Manual Whether manhole cover preferably of Ferro-		
1).	cement have been provided in the sewer		
	alignment to avoid theft of the same		
20.	Whether type of subsoil strata up to sewer invert		
	level, subsoil water table data and type of road		
	surface over the proposed sewers alignments has		
	been mentioned in the L-Section of the proposed		
	sewer		
21. (a)	Whether sewers are planned to be laid below sub-		
	soil water table		
21.	If so, whether justification for the same and the		

Reference is drawn to Para 6.3 of the Manual on Water Supply & Treatment; May 1999 Edition of the CPHEEO, Ministry of Urban Development in this matter.

		ı	
(b)	precautionary measures to be taken during laying		
	of sewer has been mentioned in the DPR		
22.	Whether L-Section of the existing/proposed rising		
	main annexed with the DPR		
23. (a)	Whether economical size of the rising main has		
	arrived at after considering at least 3 diameters of		
	each of pipe materials of PSC, CI & DI etc. <sup>24</sup>		
23. (b)	Whether the chosen diameter of the rising main		
	provide at least 0.60 m/s velocity for the base		
	year average flow		
23. (c)	Whether surge/water hammer analysis for rising		
	main has been calculated and mentioned in the		
	DPR		
23. (d)			
	in the DPR		
23. (e)	Whether rising main accessories, wherever		
	needed, such as thrust blocks, anchor blocks,		
	expansion joints, scour/drain valves, air/vacuum		
	release valves and surge protection devices		
	provided in the DPR <sup>25</sup>		
24.	In case proposed sewer/rising main is crossing		
	railway line/Highway & their bridges (wherever		
	applicable), whether permission of the concerned		
	organization has been obtained and the copies of		
	the permission and their estimate for the same		
27 ()	annexed with the DPR		
25. (a)	Whether re-sectioning/lining of the drain for		
	protection/training purpose has been restricted to		
	30 m upstream and 20 m downstream of tapping		
25 (1)	arrangement		
25. (b)	Whether the cross section at various chainage and		
	L-Section of the drain, in which re-		
	sectioning/lining is to be done, has been indicated		
25 (-)	in the drawing sheet		
25. (c)	Whether the cross section of the drain has been		
	designed on the basis of rainfall data of the area		

MS pipe, due to the corrosive nature of the sewage, is not recommended for sewage conveyance, except after special treatment.

Please mention about them in the REPORT along with reference of page number/item number

of the estimation of the same over here as well.

	and accordingly calculations have been shown in		
	the technical statement of the DPR		
26. (a)	Whether detailed dimensional drawings of nalla		
	tapping & allied works (also showing ground		
	level, bed/invert levels etc.) enclosed		
26. (b)	Whether nalla tapping works need deforestation		
	or rehabilitation of people/properties or		
	encroachments problems? 26		
26. (c)	If so, whether details and solutions have been		
	proposed in the DPR		
26. (d)	Whether arrangements of de-gritting and		
	screening the diverted flow from the tapping		
	arrangement, before joining the sewers/pumping		
	station made		
27. (a)	Whether the capacity of the sump of the pumping		
	station has been calculated on the basis of 3.75		
	Minutes detention period of peak discharge		
	during the ultimate design year		
27. (b)	Whether size of sump of the pumping station has		
	been has been out checked with pump		
	manufacturer for adequacy and so mentioned in		
	the DPR		
27. (c)	Whether scouring depth calculations have been		
	made to arrive at the depth of the pumping station		
	foundation, in case river flow shall affect the		
	structure during normal rainy season		
27. (d)	Whether proposed pumping station houses		
27 ()	submersible pumps		
27. (e)	In the case of 'No' in 27 (d) and where		
	horizontal/vertical motor driven pumps have been		
	provided, whether justification for provision of		
	twin sumps instead of single sump considering		
07 (6)	overall costs of alternatives provided in the DPR		
27. (f)	Whether the calculations to arrive at different		
	invert levels 28 have been mentioned in the		
	technical statement of the DPR and shown in the		

<sup>&</sup>lt;sup>26</sup> In case there is no such requirement, mention so in the DPR.
<sup>27</sup> Scour depth calculation should take into account highest flood flow of the river.
<sup>28</sup> (ground level, sump bed, bottom of submergible pump, top of submersible pump, storage top, incoming sewer etc.)

	drawing		
27. (g)	•		
	estimate of sump of the pumping station has been		
	made the part of the DPR		
27. (h)	Whether land marks of the surrounding area have		
	been shown in the layout plan of pumping station		
	campus		
27. (i)	In the case where approach road and internal road		
	has been provided inside the campus of pumping		
	station, whether layout of the same has been		
	shown in the layout drawing of the pumping		
28 (a)	station Whether the efficiency of the numb adopted		
28. (a)	Whether the efficiency of the pump adopted, while calculating the BHP, is in conformity with		
	the duties of the pumps proposed <sup>29</sup>		
28. (b)	Whether the configuration of the pumps proposed		
20. (0)	in each pumping station is in conformity with the		
	guidelines of the NRCD		
28. (c)	Whether friction losses inside the pump house as		
, ,	per proposed installation of pumps have been		
	calculated and accounted for while calculating		
	duties of the pump in the DPR		
28. (d)	Whether the provision for required accessories to		
	pumping plants has been made		
28. (e)	Whether the details of specifications of the		
	control panel, starters, pressure gauge etc. have		
20 (f)	been provided in the estimate		
28. (f)	Whether the size of sluice & reflex valves have		
28. (g)	been adopted as per the CPHEEO Manual Whether the details of CI connecting pipes &		
20. (g)	specials inside the pump house have been		
	provided in the DPR and accordingly provisions		
	made		
28. (h)			
	the delivery header of pumping station		
29.	Whether provision for separate electric feeder		
	line to pumping stations (to take care of frequent		
	power failure and voltage fluctuation problem)		
	from HT line has been made in the DPR		

<sup>&</sup>lt;sup>29</sup> Supporting documents are to be attached with the DPR.

30. (a) Whether provision for DG set has been made in the DPR to account for interrupted power supply 30  30. (b) In case provision for DG set has been made in the DPR, whether the calculations to arrive at the capacity of the same has been mentioned in the technical statement  31. (a) Whether the provision for staff quarters made, as per guidelines of the NRCD, in the DPR  31. (b) Whether the ground for adopting a percentage of civil construction cost towards water supply & sanitation and electric fittings has been mentioned in the DPR 31  32. Whether the provision of control and panel room made in the DPR as per specifications of the State Electricity Board 32  33. Whether unit estimates of manholes, gully pits, ventilating columns, boundary wall, gate with pillars, chambers etc. have been annexed with the DPR  34. Whether provision for road restoration has been made as per CPWD/State PWD/Local Body norms & rates  35. Whether provision for 6 months trial run cost for pumping station, after commissioning, has been made  36. Whether the provision of land for pumping station including electric sub-station has been made in the DPR for Land Acquisition, in case it is not available free of cost  37. (a) Whether the sites chosen for I&D scheme are free of flooding?  37. (b) If not, reasons for choosing such alignment and locations and measures, to avoid impact of floods	30. (b) II  30. (c)  31. (a) V  31. (b) V  32. V  33. V  11  34. V  11  35. V  11  36. V  11  36. V  11  37  38  11  38  11  38  11  12  13  13  13  14  15  16  17  18  18  18  18  18  18  18  18  18	n case provision for DG set has been made in the DPR, whether the calculations to arrive at the capacity of the same has been mentioned in the echnical statement.  Whether the provision for staff quarters made, as per guidelines of the NRCD, in the DPR.  Whether the ground for adopting a percentage of civil construction cost towards water supply & canitation and electric fittings has been mentioned in the DPR.  Whether the provision of control and panel room made in the DPR as per specifications of the State Electricity Board.  Whether unit estimates of manholes, gully pits, rentilating columns, boundary wall, gate with billars, chambers etc. have been annexed with the		
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37. (b) If not, reasons for choosing such alignment and	\ /			
locations and measures, to avoid impact of floods				
38. Whether traffic diversion/control arrangements		•		
for public and workers' safety, arising out of	f	for public and workers' safety, arising out of		
construction phase of I&D works, have been	c			
covered in the DPR	C	construction phase of I&D works, have been		

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- 31 In the case where power supply situation is satisfactory in the town, please attach a certified copy of statement of the State Electricity Board regarding the same.
- 32 Please attach a copy with the DPR.
- 33 Please attach the copy of the specification in support with the DPR.

#### CHECK LIST FOR CORE-SCHEME COMPONENT DETAILED PROJECT REPORTS OF (B) SEWAGE TREATMENT PLANT SCHEMES

S. No.	Question	Resp	onse (F	Please √)
		Yes	Page	If No,
			No.	reasons
1	What at DDD 1 1 1 1 1 1 1 C			thereof
1.	Whether the DPR has been prepared on the basis of			
	detailed survey, investigation & engineering design			
2.	Whether all technical details of the items provided in			
	the project have been mentioned in the REPORT of			
	the DPR			
3.	Whether in economic/financial analysis, different			
	I&D proposals have been considered together with			
	STP (including decentralized STPs) to arrive at the			
	present one in the DPR <sup>33</sup>			
4.	Whether a technical statement has been attached			
	which provides matching of different hydraulic levels			
	of related component of I&D in relation to STP			
	proposed			
5.	Whether a letter from the State Pollution Control			
	Board indicating quantity of treated industrial effluent			
	from ETPs contributing to discharge of drains/sewers			
	covered under the project has been attached with the			
	DPR <sup>34</sup>			
6.	Whether the sewage characteristics (BOD, COD,			
	Nitrogen, Phosphorous, Chlorides, pH, temperature,			
	total suspended solids, volatile suspended solids and			
	faecal coliform) of the drains on a composite basis			
	have been arrived at after testing as per the CPHEEO			
	Manual			
7.	Whether the justification has been provided in the			
	DPR for higher and lower value of BOD parameter in			
	a drain <sup>35</sup>			
8. (a)	Whether a detailed note on performance of existing			
	STP (if considered in the proposal) has been provided			
	in the DPR <sup>36</sup>			

<sup>33</sup> Please include the analysis in the DPR.

<sup>&</sup>lt;sup>34</sup> Please indicate the name of industries in the DPR and linking it to the city index plan showing point of contribution of treated effluent into the drain/sewer.

35 BOD of municipal sewage normally varies in range of 150-200 mg/lt.

8. (b)	Whether reasons for inadequate performance <sup>37</sup> of		
	existing STP (if considered in the proposal) have been		
	provided in the DPR		
9. (a)	Whether the site of the proposed STP has been		
	located as per that earmarked in the Master Plan of the		
	town <sup>38</sup>		
9. (b)	Whether the provision of the land for the STP has		
	been made as per 30 years requirement in the DPR for		
	Land Acquisition		
9. (c)	Whether implementing agency has proposed for		
	stabilization ponds based technology of treatment at		
	the first instance <sup>39</sup>		
9. (d)	Whether the lay out plan of proposed Ponds (or units		
	of other technologies) & future addition of the same		
	has been attached with the DPR		
9. (e)	Whether the STP capacity, to cater for ten years		
	requirement, has been adopted		
9. (f)	Whether modular approach adopted to facilitate "add-		
	on" units to STP at a future date, whenever required		
9. (g)	Whether the sewage treatment process has been		
	adopted on the basis of life cycle cost of different		
	prevalent technologies (including Karnal technology)		
	40		
9. (h)	Whether temperature, elevation and location of the		
	town has been taken into account while designing the		
	process of the STP, wherever required		
9. (i)	Whether detailed process and hydraulic designs		
	enclosed in DPR for units sizing		
9. (j)	Whether hydraulic drawing of the STP has been		
	annexed with the DPR		
9. (k)	Whether the treated effluent shall conform to the		
	standards mentioned in the guidelines of the NRCD,		
	which also includes that of faecal coliform		
9. (1)	Whether parameters of BOD, COD, TSS & Faecal		
	Coliform (at inlet & outlet of the STP) have been		
	indicated in the DPR		

<sup>36</sup> In the case where the STP is existing in the town and not considered in the proposal, justification should be provided in the DPR for the same.

37 In case it is so.

38 Please attach the supporting documents with the DPR.

<sup>&</sup>lt;sup>39</sup> If not, a certificate from the Land Acquisition Officer to the effect that land as per requirement is neither available nor/or it is not possible to change land use pattern at the suitable location for the purpose needed to be annexed with the DPR.

40 Life cycle cost analysis should include capital cost, capitalized annual O&M cost less revenue from resource recovery, and land cost. The summary of the analysis shall form an important

component of the DPR.

		1	
10.	Whether contour map of the site has been annexed with the DPR		
1 1			
11.	Whether all items of treatment units ( <i>Intake Chamber</i> ,		
	Screen Chamber, Grit Channel along with		
	proportional flow weir, Conveyance Main from		
	Distribution Chamber to Primary Pond/Inlet to		
	Primary Pond, Interconnections, Outlet of the Pond to		
	Effluent Channel, Effluent Channel etc., in case of		
	Stabilization Ponds) have been designed as per the		
	CPHEEO Manual and detailed drawings and		
	estimates provided in the DPR <sup>41</sup>		
12.	Whether the provision of pretreatment units has been		
	made as per ultimate year discharge of influent so that		
	additional modules could be added as per future		
	requirements		
13.	Whether the screen channel has been provided with		
	medium bar screen having clear opening of 20-30 mm		
	or less to arrest floating materials		
14. (a)	Whether the embankment top width of the ponds is		
, ,	1.5 m to suit cost effectiveness		
14. (b)	Whether the slope of the embankment (in case of		
	ponds) has been adopted on the basis of soil test		
	report 42		
14. (c)	Whether lining of the ponds has been proposed 30cm		
, ,	above and below the water level to control the erosion		
	of the surface due to wave action, as arrives through		
	the NRCD experience		
14. (d)	Whether lining of the ponds has also been proposed at		
, ,	the bottom & embankments to check the percolation		
	to sub-soil water and the justification mentioned in the		
	DPR <sup>43</sup>		
14. (e)			
	ponds has been proposed to be carried out by adopting		
	balancing method		
14. (f)	Whether Inlet & Outlet structure of the Ponds has		
(1)	been provided as per 'Design Manual for Waste		
	Stabilization Ponds in India' of the NRCD		
15.	Whether independent estimation & detailed		
	measurement for ancillary works such as boundary		
	wall/fencing, approach & internal road, external		
	electrification, staff quarters (as per the NRCD)		
	guidelines), water supply & campus drainage, site		
	sumennes), water suppry & campus dramage, site		

Design & drawings of all civil structures are to be annexed with the DPR.

Please attach the copy of the recommendations with the DPR.

Please annex the soil report to this effect along with the recommendations with the DPR.

	development/landscaping etc. has been provided in the DPR		
16.	Whether dimensional layout plan of the site showing plan of the STP, piping, roads, staff quarters, approach & internal roads, boundary wall/fencing,		
	external electrification points etc. along with land marks of surrounding area annexed with the DPR		
17.	Whether provision for establishment of laboratory for		
	analysis of important parameters of sewage/river		
	water has been made in the DPR		
18.	Whether provision for 6 months O&M of the STP for		
10 ()	stabilization purpose has been made in the DPR		
19. (a)	Whether possibilities for utilization of treated effluent		
	for agriculture irrigation, pisciculture, industrial		
10 (1)	process use etc. have been explored		
19. (b)	If so, whether estimated quantities and revenue/year		
10 (a)	as resource recovery has been given in the DPR		
19. (0)	Whether arrangements for storage of bio-gas (in the case of generation in the treatment process) has been		
	made		
19. (d)	If so, whether expected resource recovery has been		
	proposed in the DPR;		
	(i) by distributing the bio-gas to the nearby residents,		
	(ii) through power generation		
20.	Whether disposal of the treated effluent back in the		
	river has been made at the point after which it shall		
	not become the reason for health hazard to the		
	populace and a detailed note about the same has been		
	included in the report part		
21.	Whether it has been mentioned in the DPR that the		
	tender bid for the implementation of works shall also		
	include the O&M of the STP for 10 years		

#### **CHECK LIST**

#### **FOR**

#### LAND ACQUISITION

#### **DETAILED PROJECT REPORTS**

#### **CHECK LIST FOR**

#### DETAILED PROJECT REPORTS OF LAND ACQUISITION SCHEMES

S. No.	Question	Resp	onse (F	Please √)
	-	Yes	Page	If No,
			No.	reasons
				thereof
1.	Whether the purpose of land acquisition along with			
	area in hectare (and cost) of each item has been			
	mentioned in the DPR			
2.	Whether the existing & proposed works of I&D and			
	STP (and other components like LCS, Crematoria)			
	have been shown in the index plan of the town and			
	annexed with the DPR			
3.	Whether location of land proposed to be acquired has			
	been shown in the index plan of the town 44			
4.	Whether the revenue map of plots (proposed for			
	acquisition) enclosed with the DPR			
5.	Whether layout plan of pumping station/STP or any			
	other item as per the proposal has been annexed with			
	the DPR			
6.	Whether types of present land use for each site			
	selected has been mentioned in the DPR			
7.	Whether each site related to schemes proposed in the			
	DPR is free of flooding and devoid of hard rock			
	formation			
8.	Whether it has been ensured that each site (in item 7			
	<i>above</i> ) is free of litigation and/or encroachment			
9.	Whether letter of the Land Acquisition Officer			
	specifying land cost, registration charges etc. (on the			
	basis of which cost of land per hectare adopted) has			
	been enclosed with the DPR			
10.	Whether the consent letter of the owner of the land to			
	the effect of its transfer to the implementing agency			
	has been attached with the DPR, in the case where			
	land is available free of cost <sup>45</sup>			
11.	Whether different year design flows on the basis of			

Land for I&D and STP works should be proposed for acquisition on the basis of 30 years requirement, as per the NRCD guidelines.

45 It is to be complied with in those cases also where the owner is the local body.

	population projection, rate of water supply, interception factor etc. has been mentioned in a		
	tabular form in the DPR		
12.	Whether the sewage treatment process has been		
	adopted on the basis of life cycle cost of different		
	prevalent technologies (including Karnal technology)		
13.	Whether time taken in each activity of the acquisition		
	has been mentioned in the DPR		
14.	Whether start of work of each item of I&D and STP is		
	matching with date of possession of land for the		
	purpose		
15. (a)	Whether trial pits/ bore-whole data and other relevant		
	investigation/surveys 46 carried out at the proposed		
	sites		
15. (b)	If so, whether details of soil bearing capacity and	_	
	other technical data enclosed with the DPR		

<sup>46</sup> It would be needed for design of relevant items of works.

#### **CHECK LIST**

#### **FOR**

# LOW COST SANITATION (COMMUNITY TOILET COMPLEX) DETAILED PROJECT REPORTS

#### **CHECK LIST FOR**

#### DETAILED PROJECT REPORTS OF LOW COST SANITATION (COMMUNITY TOILET COMPLEX) **SCHEMES**

S. No.	Question	Resp	onse (F	Please $\sqrt{\ }$
		Yes	Page	If No,
			No.	reasons
1	Wileyday 'day'' and and and an all and Comment			thereof
1.	Whether identification and marking of space used			
	for open defecation on city index plan has been			
	annexed with the DPR			
2.	Whether location of each of existing LCS units in			
	the town along with their present condition <sup>47</sup> and			
	O&M arrangements, level of utilization during last			
	one year have mentioned in the REPORT of the			
	DPR and the location shown in the index plan of			
	the town			
3.	Whether details of activities already taken up by			
	the local body or the Social Welfare Department			
	& other State Govt. agency have been indicated in			
	the DPR			
4.	Whether proposed LCS units in the town have			
	been mentioned in the DPR and shown in the			
	index plan of the town			
5.	Whether basis for selection of location of each			
	proposed LCS unit, its seating capacity (on the			
	basis of expected number of users) has been			
	mentioned in the DPR <sup>48</sup>			
6.	Whether renovation of existing LCS units or			
	increasing its capacity, if applicable/required, has			
	been provided in the DPR			
7. (a)	Whether the copy of the consent letter of the			
	owner of the land has been attached with the DPR,			
	in the case where land is available free of cost <sup>49</sup>			
		L		

Please indicate number of seats against each existing LCS also.

48 LCS/Community toilets of 10, 15 and 20 seat capacity may be provided depending upon the space and number of expected users.

49 It is to be complied with in those cases also where the owner is the local body.

7. (b)	In the case where land is to be purchased, whether		
	provision for it has been made in the Land		
	Acquisition DPR		
7. (c)	In case land is to be purchased, whether the type		
	of present land use for each proposed unit has		
	been mentioned in tabular form in the DPR		
8.	Whether layout plan of each LCS complex along		
	with land marks of surrounding area has been		
	annexed with the DPR		
9.	Whether detailed drawing of LCS complex has		
	been annexed		
10.	Whether soil test report of those sites, where		
	foundation of the building is to be laid in soil		
	other than normal soil, has been annexed with the		
	DPR <sup>50</sup>		
11. (a)	Whether the proposed LCS unit has been		
	connected to the nearest sewer and provision made		
	accordingly		
11. (b)			
	and septic tank provided, whether cost comparison		
	of both alternatives for <u>each case</u> mentioned in the		
10	DPR		
12.	Whether size of the soak pit & septic tank is in		
	conformity with the seating capacity of the LCS		
1.0	unit and its design annexed with the DPR		
13.	Whether provision for proper lighting of the LCS		
1.4	complex made in the DPR		
14.	Whether provision for boundary wall along with		
1.7	gate, if applicable, has been made in the DPR		
15.	Whether provision for adequate number of urinals,		
	located outside the front part of the building, has		
1.0	been made in the DPR		
16.	Whether provision for adequate water supply by		
	municipal main, shallow depth tubewell or jet		
17	pump (as per the site conditions) has been made		
17.	Whether estimate of State Electricity Board for		
	power connection for each LCS unit has been		
	annexed with the DPR		

<sup>&</sup>lt;sup>50</sup> Please attach the report with the DPR.

18.	Whether proper size of water storage tank and its		
	basis, as per requirement of the LCS unit, has been		
	provided in the DPR		
19.	Whether the calculations to arrive at the O&M		
	cost has been annexed with the DPR		
20. (a)	Whether envisaged resource recovery (on the		
	basis of user's payment) has been mentioned in		
	the DPR		
20. (b)	Whether institutional mechanism for proper O&M		
	of the proposed LCS units has been mentioned in		
	the DPR		

#### **CHECK LIST**

#### **FOR**

#### **CREMATORIA**

#### **DETAILED PROJECT REPORTS**

#### **CHECK LIST FOR**

#### DETAILED PROJECT REPORTS OF **CREMATORIA SCHEMES**

1. Whether a note on existing cremation ghats of the town, mode of cremation, number & type of crematoria installed at each ghat, their condition at present, their level of utilization etc. has been provided in the DPR s1  2. In the case where electric/wood based crematoria have been established under GAP or NRAP in the town, whether performance and acceptance of different type of crematoria has been indicated in the DPR  3. Whether number & type of crematoria approved at PFR stage has been mentioned  4. Whether the justification for proposing Electric Crematoria in place of Improved Wood Crematoria (in case Improved Wood Crematoria approved by CCEA) has been mentioned in the report s2  5. Whether number of cremation taking place during the last 5 years as per the records at the particular ghat/site proposed for the town has been mentioned in the DPR  6. In the case where improved wood crematoria have been proposed in the town, whether design with latest modification/improvement based on the study on those installed under	S. No.	Question	Resp	onse (F	Please √)
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based on the study on those installed under					
		_			
Ganga Action Plan and NRAP has been		Ganga Action Plan and NRAP has been			
adopted in the DPR in order to conserve more					
wood					

Location of existing cremation ghats is to be shown on city index plan.

Electric Crematoria should be proposed in those towns only where its acceptability and subsequent utilization is anticipated.

7.	Whether the justification of proposing the		
	number of cremation beds/units at the		
	particular ghat/site proposed of the town has		
	been mentioned in the DPR		
8.	Whether the location of the crematoria has		
	been marked on the city index plan		
9. (a)	Whether the land for crematoria is available		
	free of cost <sup>53</sup>		
9. (b)	In the case where land is to be purchased,		
	whether the provision for same has been made		
	in the DPR for Land Acquisition		
10.	Whether basis for sizing of furnace hall,		
	waiting hall, office, caretaker room, electric		
	switch room, generator room etc. (in case of		
	electric crematoria) has been mentioned in the		
	DPR		
11.	Whether justification for providing mortuary		
	room, record room (in case of electric		
	crematoria) has been provided in the DPR		
12.	Whether the basis for selected size of water		
	storage tank has been mentioned in the DPR		
13.	Whether the provision of the tube-well for		
	water supply has been made as per		
	requirement and sub-soil water strata at the		
	site 54		
14.	Whether plan of the site showing the lay-		
	out/location of the crematoria building, roads,		
	boundary wall/gate, external lighting etc.		
	along with landmarks of surrounding area has		
	been annexed with the DPR		
15.	Whether detailed drawing of the crematoria		
4 -	building/shed has been annexed		
16.	Whether the calculations to arrive at the		
	capacities of the transformer & generator (in		
	case of electric crematoria) have been shown		
	in the DPR		

<sup>&</sup>lt;sup>53</sup> In the case where land is available free of cost, letter of the owner of the land for the same is to be annexed with the DPR <sup>54</sup> In order to limit the O&M cost.

17.	Whether the height of the chimney proposed for dispersal of gases is 9 meters (in case of electric crematoria) <sup>55</sup>		
18.	Whether the provision for land development and landscaping, if provided, has been made as per detailed survey and actual site requirements		
19.	Whether institutional mechanism for proper O&M of the proposed crematoria has been mentioned in the DPR		

<sup>&</sup>lt;sup>55</sup> Height of the chimney is to be adopted taking into consideration the surrounding area of the location of the site, so that the dispersed gases do not affect the environment of nearby residents.

#### **CHECK LIST**

#### **FOR**

RIVER FRONT DEVELOPMENT

**DETAILED PROJECT REPORTS** 

**CHECK LIST FOR** 

## DETAILED PROJECT REPORTS OF RIVER FRONT DEVELOPMENT SCHEMES

S. No.	Question	Resp	onse (F	Please √)
		Yes	Page	If No,
			No.	reasons
				thereof
1.	Whether justification for proposing river front			
	development for a town has been mentioned in the DPR			
2.	Whether identification of improvements required in			
	each bathing ghats has been indicated in the DPR			
3.	Whether the basis for adopting a particular length of			
	river front development has been mentioned in the DPR			
4.	Whether location of proposed development of river			
	front has been shown in the city index plan			
5.	Whether the DPR has been prepared in consultation			
	with the Irrigation Department of the State (on items			
	relevant to the Irrigation Department) and the copy of			
	their approval annexed with the DPR			
6.	In the case where illumination has been proposed in the			
	area, whether illumination points have been earmarked			
	on the layout plan of the works			
7.	Whether detailed design, drawing and estimation of all			
	the items (wherever applicable) has been provided in			
	the DPR			

#### **CHECK LIST**

**FOR** 

**AFFORESTATION** 

**DETAILED PROJECT REPORTS** 

#### **CHECK LIST FOR**

#### DETAILED PROJECT REPORTS OF AFFORESTATION SCHEMES

S. No.	Question	Resp	Response (Please $\sqrt{}$	
		Yes	Page	If No,
			No.	reasons
				thereof
1.	Whether layout plan of the area proposed for plantation			
	annexed with the DPR			
2.	Whether the provisions of trees has been made for			
	block plantation			
3.	Whether the provision of planting avenue/aesthetic/			
	environment friendly <sup>56</sup> trees has been made along the			
	boundary walls of the STP and pumping station			
4.	Whether provision for dense foliage plantation around			
	pumping station, STP has been made in the DPR			
5.	Whether plantation of revenue earning trees has been			
	made, as resource recovery, in the area of STP meant			
	for future expansion			
6.	Whether appropriate mechanism for maintenance &			
	protection of plantation for a period of three years has			
	been indicated in the DPR			

The afforestation schemes are prepared for planting trees in the NRCP work schemes of Interception & Diversion, Sewage Treatment Plant, Low Cost Sanitation Complex (or Community Toilet Complex), River Front Development & crematoria in order to improve the aesthetics of the project area. <sup>56</sup> e.g., Neem etc.

#### **CHECK LIST**

#### **FOR**

# MUNICIPAL SOLID WASTE MANAGEMENT DETAILED PROJECT REPORTS

#### **CHECK LIST FOR**

#### DETAILED PROJECT REPORTS OF MUNICPAL SOLID WASTE MANAGEMENT SCHEMES

S. No.	Question	Response (Please		
		Yes	Page	If No,
			No.	reasons
				thereof
1.	Whether link establishing municipal solid waste vis-			
	à-vis pollution of the river has been established in the			
	DPR			
2.	Whether the provision to regulate the management			
	and handling of the municipal solid wastes covering			
	collection, segregation, storage, transportation,			
	processing and disposal of municipal solid wastes			
	has been made as per the Municipal Solid Wastes			
	(Management and Handling) Rules, 2000 of the			
	Ministry of Environment & Forests			
3.	Whether an undertaking of the local body to the			
	effect that bio-medical waste and hazardous waste			
	will be managed separately from the Municipal Solid			
	Waste as per the Bio-Medical (Management and			
	Handling) Rules, 1998 & the Hazardous Waste			
	(Management and Handling) Rules, 1989			
	respectively has been attached with the DPR			
4.	Whether proposal has been prepared on the basis of			
	decentralized management as a measure of economy			
	and justified in the REPORT of the DPR			
5.	Whether the scheme caters to for present requirement			
J.	of solid waste generation and management			
6.	Whether a study, to assess the present actual			
0.	_			
	generation of the municipal waste in the town, has			
	been carried out and accordingly mentioned in the DPR <sup>57</sup>			
7				
7.	Whether a provision for segregation of bio-			
	degradable & non-bio-degradable waste at the point			
	of collection has been made in the DPR			
8.	Whether appropriate technologies for waste			
	processing & disposal facilities have been considered			

<sup>57</sup> Please attach a copy of the Study with the DPR.

9. (a)	Whether an assessment of the assets required for the		
	scheme has been undertaken for the whole town <sup>58</sup>		
9. (b)	Whether detailed estimation of the assets to be		
	created has been made in the DPR		
9. (c)	Whether unit estimates of each construction item and		
	its drawing has been annexed with the DPR		
10. (a)	Whether the provision for the land for 30 years has		
	been made in the DPR for Land Acquisition, in case		
	it is not available free of cost		
10. (b)	Whether the consent letter of the owner of the land to		
	the effect of its transfer to the implementing agency		
	has been attached with the DPR, in the case where		
	land (for 30 years requirement) is available free of		
	cost <sup>59</sup>		
10. (c)	Whether land for disposal is located in such a way		
	that it shall not affect the health of the residents of		
	the town <sup>60</sup>		
10. (d)	Whether the proposed land is located in Non-flood		
	prone area and easily accessible during rains		
11.	Whether the location <sup>61</sup> and layout plan of the land		
	proposed for processing & disposal has been annexed		

<sup>58</sup> Please specify and justify in the DPR.
59 It is to be complied with in those cases also where the owner is the local body.
60 Please justify in the REPORT of the DPR.
61 On the city index plan.

#### **CHECK LIST**

#### **FOR**

**CATTLESHED AND BIOGAS PLANTS** 

DETAILED PROJECT REPORTS NATIONAL RIVER CONSERVATION PLAN

#### **CHECK LIST FOR**

## DETAILED PROJECT REPORTS OF CATTLESHED \* AND BIOGAS PLANTS SCHEMES

S. No.	Question	Response (Please		Please √)
		Yes	Page	If No,
			No.	reasons
				thereof
1.	Whether the purpose of construction of cattle shed in			
	reference to river pollution abatement has been			
	justified in the DPR			
2.	Whether quantification details of dairy waste have			
	been provided in the DPR			
3.	Whether present location of dairy & disposal points			
	of dairy waste have been given in the REPORT of			
	the DPR and marked on the city index plan <sup>61</sup>			
4.	Whether the resolution by the local body to the effect			
	that it agrees with the proposal made in the DPR &			
	that the assets created for the purpose would not			
	remained unutilized has been indicated in the DPR <sup>61</sup>			
5.	Whether the copy of the consent letters of the diary			
	owners who shall be displaced has been attached			
	with the DPR (to avoid litigation etc. and delay in			
	implementation)			
6.	Whether the number of the sheds and its capacity has			
	been adopted on the basis of present number of cattle			
	population in the town <sup>61</sup>			
7.	Whether proposed location of the cattle shed has			
	been marked on the city index plan			
8.	In the case where land is available free of cost,			
	whether consent letter of the owner of the land for			
	the same is annexed with the DPR			
9.	In the case where land is to be purchased, whether			
	provision for the same has been made in the DPR for			
	Land Acquisition			
10. (a)	Whether the basis for arriving at the capacity of			
	biogas plant has been given in the DPR			
10. (b)	Whether detailed drawing of the biogas plant has			
	been annexed with the DPR			
10. (c)	Whether revenue generation through utilization of			
	biogas generated is envisaged, if yes, whether it has			
	been mentioned in the DPR			
	occii mentioned in the DI K			

12.	Whether a note on feasibility, planning & marketing strategy for resource recovery by ways of recycling, energy generation, sale of manure and reclaiming the dumping site has been included in the REPORT of the DPR		

11.	Whether other alternatives like steel trusses with		
	GI/Asbestos sheets for cattle shed, as an alternative		
	to concrete structure, have also been considered <sup>61</sup>		
12.	Whether the basis for adopting the layout plan of the		
	cattle shed and provision of related sub-items has		
	been given in the DPR		
13.	Whether the details & basis of estimate of cartage of		
	required materials have been given in the DPR		