

Tel: 011-23018523  
Fax: 011-23019109  
E-mail: diruu3-mes@nic.in

Engineer-in-Chief's Branch  
Military Engineer Services  
Directorate of Works  
Sub Dte of Utility  
Kashmir House, Rajaji Marg  
New Delhi – 110011

86435/Misc/ 168 /E4 (U3)

16 Feb 2021

**E-in-C's Branch List 'A' & 'B'**

**IN-HOUSE DESIGNING OF SEWAGE DISPOSAL SCHEMES**

1. Please refer the following E-in-C's Branch letters No:-
  - (a) 61748/PL/E4 (U) dated 06 Jun 2014 vide which amendments to MES Standing Order have been issued.
  - (b) 86435/Misc/E4 (U3) dated 19 May 2017 vide which guidelines for planning and design of sewer network have been issued.
  - (c) 86440/Misc/Policy/54/E4 (U3) dated 03 Jul 2020 vide which policy for enhancement of capability for designing PHE schemes in-house has been issued.
2. Sewage disposal schemes, due to multi-disciplinary collaboration required, undergo an exceptionally rigorous pre-administrative approval planning phase. The collection of data, design of the sewage disposal scheme and thereafter technical vetting of the proposed scheme prior to sanction of the sewage disposal work needs to be carried out with due diligence.
3. It has been observed, with due concern, that large number of sewage disposal schemes are delayed beyond the stipulated period in military stations. One of the main reason for delay is the time taken for carrying out consultancy of design of sewage disposal schemes and its technical vetting. In-spite of consultancy being carried out for design of the sewage disposal schemes, the designs provided by the consultants are not up to the satisfaction level and lacks codal provisions which leads to the redesign of the scheme, causing time delays.
4. During execution stage, a high degree of synchronization is required to ensure timely completion and commissioning of the sewage disposal scheme. All these factors have to be addressed to ensure timely completion of sewage disposal schemes
5. To overcome delay of works of sewage disposal, the following is instructed:-
  - (a) **Sewage Disposal Schemes Costing Above ₹ 500 lakh for Army Works and ₹ 250 lakh for Air Force and Navy Works.**
    - (i) In-house designing of all sewage disposal schemes will be carried out by E-in-C's Branch.



(ii) CE Zones to provide ground data for designing of sewage disposal scheme by E-in-C's Branch as per procedure given at Para 3 and performa given as Appendix of letter referred at Para 1(c) above.

(b) **Sewage Disposal Schemes Costing Below ₹ 500 lakh for Army Works and ₹ 250 lakh for Air Force and Navy Works.**

Prior technical scrutiny of all sewage disposal schemes will be carried out by concerned CEA as per amendments to E-in-C's Standing Order referred at Para 1(a).

(i) Consultant will provide various proposals for sewage disposal scheme (centralized/ decentralized, technology options, etc) in totality for the station with cost benefit analysis and present it to the CE Zone to facilitate CE to select the most efficient option.

(ii) CE Zone gets validation of ground data by concerned GE and one proposal will be selected for execution.

(iii) DPR for selected proposal will be made and technically vetted from IIT/NIT/ADG D&C/Nominated expert of Command and finalized DPR, incorporating changes by the vetting agency, to be submitted to CE Zone by consultant.

(c) **Post Administrative Planning/ Tender Action.**

(i) Sewage disposal works of the building(s) being constructed will be planned in conjunction with the main work as an integrated tender. An integrated planning of the building work along with sewage disposal to be carried out at planning stage. If requisite details are not available for any portion of the sewage disposal portion of the work, the estimates can be carried out based on ED/ SSR rates. The design can be carried out during post Administrative planning for sewage disposal works when it is planned as part of building work. The tendering will be carried out as per E-in-C's Branch letter No 66546/Manual/PQC/16/E8 dated 27 Jun 2019 as an integrated tender.


(ii) In integrated tender, option of agreement/ joint venture with specialist contractors will be catered for. Un-enlisted contractors meeting the enlisted criteria be allowed to participate in the tendering process.

(iii) To ensure that the STP constructed can function and treat wastewater to the parameters it is designed for, testing and commissioning of STP should be carried out as given in E-in-C's Branch TI No 04/2012: Testing Commissioning and Inspection of Wastewater Treatment Plant. Contract documents to cater for the same.

(d) **Execution.** A commissioning expert be nominated out of the Command PHE expert panel by CE Command as per Para 14 & 15 of TI No 04/2012. In this connection, Para 3(m) of E-in-C's Branch letter No 86435/Misc/E4 (U3) dated 19 May 2017 refers. This officer may also be tasked by CE Command to act as a nodal officer for all sewage disposal works in its Area of Responsibility.

6. Please acknowledge receipt and ensure dissemination of these instructions to lowest level and their implementation.

  
(K V Vinayaka)  
Lt Col  
SO-1, E4 (Utility)  
For E-in-C



**Copy to:-**

QMG's Branch/ DG LW&E  
IHQ of MoD (Navy)/ Dte of Works  
IHQ of MoD (Air Force)/ Dte of AF Works  
HQ IDS/ Works Dte  
HQ SFC  
Coast Guard HQ  
HQ CME Pune  
ADG (D&C) Pune  
DG MAP  
MS-12

**Internal:-**

E2W (PPC)	E2W (TC)	E2W (Army)	E2W (Navy)
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Automation Cell - Please upload this letter on MES website on open domain.