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86440/Misc/Policy/ 5 /E4 (U3)

08 Oct 2020

E-in-C's Branch List 'A' and 'B'

ADVISORY: PACKAGE TYPE SEWAGE TREATMENT PLANT (STP)

1. Refer E-in-C's Branch letter No 86435/Misc/E4 (U3) dated 19 May 2017.
2. Selection of centralized/ decentralized sewage disposal system is based upon various factors which includes lay of the ground, density of population, availability of land, water usage pattern/ habits and ground water table etc. Use of cost-benefit analysis for various options of sewage disposal prior to selection of most efficient sewage disposal system has already been elaborated at Para 3(k) of letter referred above.
3. For decentralized sewage disposal schemes, requiring less sewage treatment capacity, Package Type treatment units (screens, primary treatment units, secondary treatment units and tertiary treatment units) are available. Presently Package Type treatment units/ STPs are available up to 300 KLD. For additional load, the package type units are placed as modular units and capacity increased.
4. Certain Package Type treatment units available in the market have following deficiencies which need to be taken into consideration during planning placement:-
 - (a) Life of Package Type STPs/ treatment unit provided off the shelf by various firms is being quoted as five to seven years due to corrosive nature of sewage. The life can be increased to the mandated 15 years by usage of correct construction material as given in Para 5.3.15 of Manual on Sewerage and sewage treatment system (CPHEEO), 2013.



(b) Package Type STP/ treatment units require construction of remaining structures based on the design of treatment process like collection sump, screens, oil and grease traps, equalization tank and treated water tanks, etc.


5. In view of the above, the following are instructed:-

(a) Design life of the Package Type STPs/ treatment units during planning be minimum 15 years.

(b) STP/ treatment unit be designed for correct input parameters of sewage to be treated, after collection of samples as given at Para 2 of Appendix 'A' to letter referred above. It is reiterated that in the absence of outfall parameters, the parameters tabulated in Appendix 'A' of letter under reference are to be assumed. However, design be re-verified once the actual data is available.

(c) Cater for the cost and space of remaining structures along with the cost and space required for Package Type STP/ treatment units.

6. Please acknowledge receipt and ensure compliance.


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

Copy to:-

DG MAP

Internal:

E2W (PPC)

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Automation Cell - Please upload this letter on MES website on open domain.

