

## Site selection and design criteria for Deep Row Entrenchment (DRE)

Sl. No.	Activity	Yes/No	Remarks
<b>1</b>	<b>Site Selection Criteria</b>		
a)	Identification of possible sites with <i>Patwari</i>		(No. of sites identified)
b)	Site above high flood level (HFL)		
c)	Site not prone to water-logging		
d)	Water table deeper than 15ft from bottom level of the trench		If not refer point 2f
e)	Surface water body minimum distance - 45ft		If not refer point 2f and 2g
f)	Soil type – porous		
g)	Site terrain – flat		
h)	Distance between nearest habitation and site - 200m minimum		
i)	All weather road accessibility for cesspool emptier vehicle		
j)	Compatible to adjacent and neighbouring properties usage		
k)	Distance of site from town centre < 15km		
l)	GPS tagging of DRE site		
<b>2</b>	<b>Trench Design</b>		
a)	Top width of the trench - 3.00m		
b)	Bottom width of the trench - 1.50m		
c)	Height/depth of the trench - 1.5m		
d)	Length of the trench – 10.0m		
e)	Distance between two trenches - 3.50m		
f)	Lining of trench bottom with 1ft of sand		Only in case of noncompliance to point 1d & 1e
g)	Lining sides of trench with agri-film/thick PVC sheet		Only in case of noncompliance to point 1e

**Note:** In case the DRE site is chosen to be co-located with the municipal solid waste (MSW) site, essential to ensure distance between MSW and DRE is minimum of 90 ft.

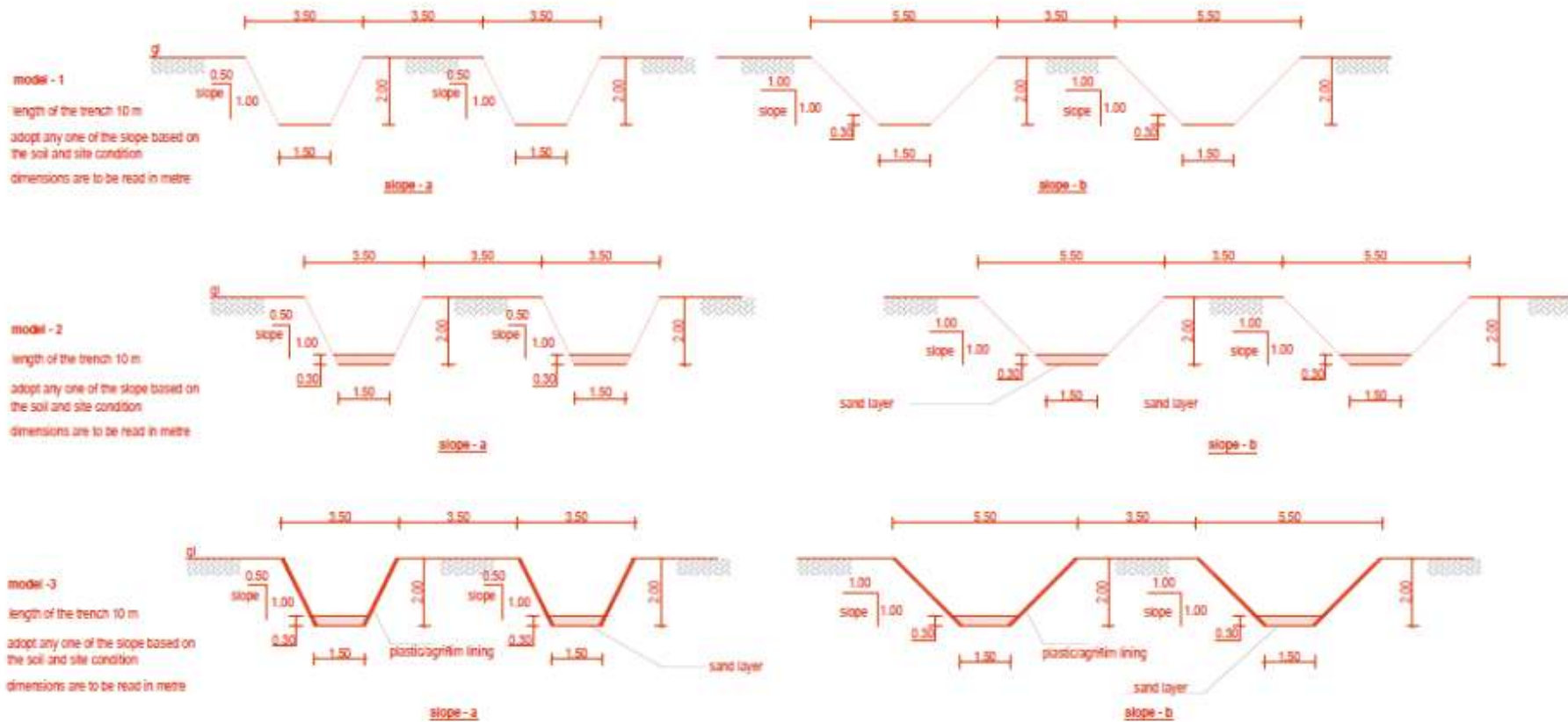


Figure 1: Different model cross-sections of DREs

<sup>1</sup> Image Courtesy: WASHi