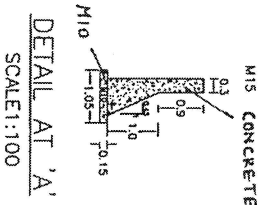
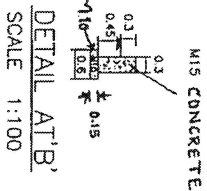


HEIGHT OF DAM 0.0m TO 3.0m
DEPTH OF STORAGE 0.0m TO 1.0m



- Notes:
- The design has been formulated based on the soil parameters furnished by the Exe-Engineer, PWD, W.R.D., Bhavanisagar Dam Division, Bhavanisagar, vide C.E., Coimbatore Region Lr. no: 15/AET/AEZ/ F/NABARD / 2018 dated 16.04.2018
 - The field engineers should ascertain the adequacy of soil for the formation of earth dam before execution.
 - The soil sample suitable for casing and heaving is chosen from the samples furnished and the properties are tabulated below.

Description	Casing Soil	Heaving Soil
Optimum moisture content(%)	12.0	18.0
Cohesion (kg/m ²)	1500	3800
Angle of internal friction(deg)	33	18
Max dry density (kg/m ³)	1930	1720
Moist density(kg/m ³)	2162	2030
Saturated density(kg/m ³)	2199	2070
Submerged density(kg/m ³)	1199	1070

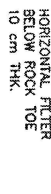
- If the soil parameters differ, the design has to be revised accordingly.
- All dimensions are in metres unless otherwise specified
- This drawing should be read along with Drwg.No.1524/2018 to Drwg.no.1527/2018.

SHEET NO : 1/9

GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT
OFFICE OF THE SUPERINTENDING ENGINEER, PWD,
DESIGNS CIRCLE - WRO, CHENNAI - 600 005

Designed & Drawn	E.T. Annadurai, A.E.	Name of work:	Formation of Tank across Jungle Stream Near Kanakkampalayam Village of Gobi Taluk in Erode District.
Checked by	Er. B. Sangeetha, A.E./M	Designed drawing of:	TYPICAL SECTIONS OF EARTHEN BUND
Verified by	Er. K. Prabakar, DSE(D)	TYPE I	
Recommended by	Er. Amelita Bolfoj, SE(D)	Region :	Bhavanisagar
Approved by	Er. P. Vairavandhan, CE(PF)	Circle :	Erode
T.NO:1524/2018	SCALE 1:100	Communicated in Lr NO.	14/F/1170-N/2018 / DATED: 22.05.2018

SCALE : 1:50



HEIGHT OF DAM 3.0m TO 5.0m

DEPTH OF STORAGE 1.0m TO 3.0m

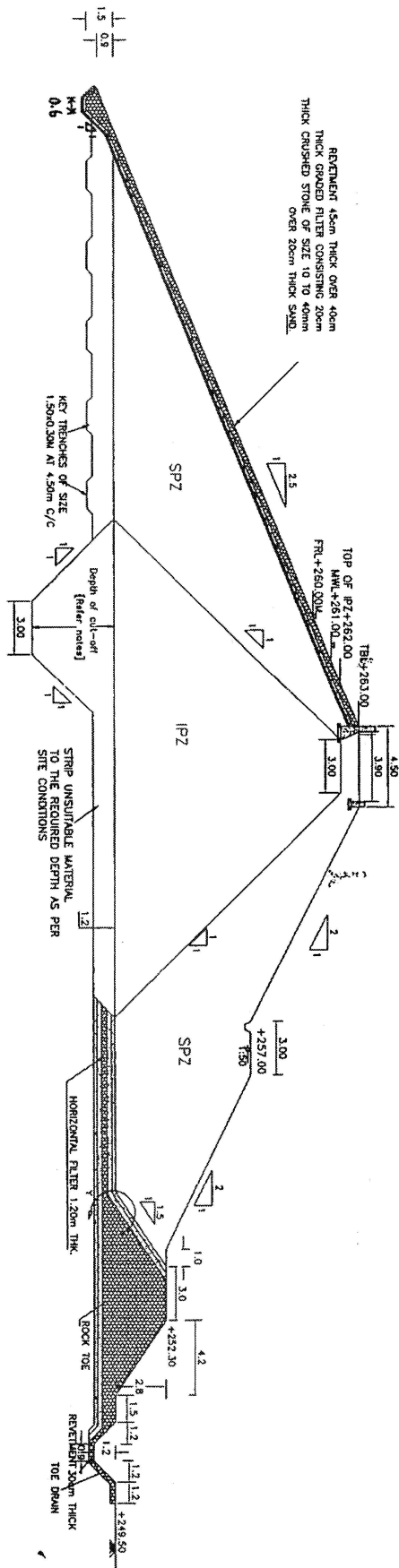
CUT-OFF
The bottom of cut-off shall be placed considering the following aspects

1. Permeability test at change in strata or at every 1.50m depth interval may be conducted upto 'D'. Depth of storage at every 100m longitudinal interval.
2. Based on the permeability values, the cutoff may be terminated where the permeability is less than $1 \times 10^5 \text{ cm}^2/\text{sec}$. That permeability value should extend at least to a depth of 1.50m. However the minimum depth of cutoff shall be $D/2$.
3. In case, the permeability value is more than $1 \times 10^5 \text{ cm}^2/\text{sec}$ throughout the depth equal to 'D', the cutoff may be terminated at 'D'. However if the subsoil below the level is highly pervious, suitable treatment to arrest the sub surface flow should be given in consultation with CE(PF).
4. Depending on the substrata Type 1, 2 & 3 given in sheet 9/1 shall be adopted.

SHEET NO : 2/9

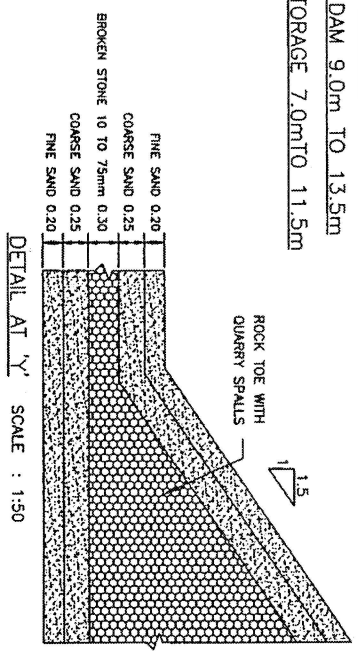
1. All dimensions are in metres unless otherwise specified
2. This drawing should be read along with Dwg.No.s/52-I/2018 to Dwg.no.152-I/2018.

GOVERNMENT OF TAMIL NADU PUBLIC WORKS DEPARTMENT OFFICE OF THE SUPERINTENDING ENGINEER, PWD, DESIGNS CIRCLE, WRO, CHENNAI - 600 005		
Designed & Drawn	<i>S. Jeyaraj</i> E.T. Annadurai, A.E.	
Checked by	<i>S. Jeyaraj</i> E. B. S. Srinivasan, A.E., P/I	
Verified by	<i>Chinn</i> Er. K. Probakar, DSE(O)	
Recommended by	<i>S. Jeyaraj</i> Er. Amelia Balraj, SE(D)	
Approved by	<i>S. Jeyaraj</i> Er. P. Vairamohan, CE(PF)	
T.N.O:-15/2/6/2018	SCALE 1:200	Name of work : Formation of Tank across Jungle Stream Near Kanakkampalayam Village of Gobi Taluk in Erode District.
Assigned drawing of : TYPICAL SECTIONS OF EARTHEN BUND TYPE II		
Region :	Circle :	SE(D) / Communicated in U. NO. 14/P/170-M/2018 / DATED 22.05.2018
Sub Region :	Erode	



HEIGHT OF DAM 9.0m TO 13.5m
 TYPE VII
 DEPTH OF STORAGE 7.0m TO 11.5m

- CUT-OFF
- The bottom of cut-off shall be placed considering the following aspects.
1. Permeability test at change in strata or at every 1.50m depth interval may be conducted upto 'D' the 'Depth of storage' at every 100m longitudinal interval.
 2. Based on the permeability values, the cutoff may be terminated where the permeability is less than 1×10^{-6} cm/sec. That permeability value should extend at least to a depth of 1.50m. However the minimum depth of cutoff shall be $D/2$ cm/sec throughout the depth.
 3. In case the permeability value is more than 1×10^{-6} cm/sec throughout the depth equal to 'D' the cutoff may be terminated at 'D'. However if the subsoil below the 'D' level is highly pervious, suitable treatment to arrest the sub surface flow should be given in consultation with CE(PF).
 4. Depending on the substrate Type I, 2 & 3 given in sheet 6/4 shall be adopted

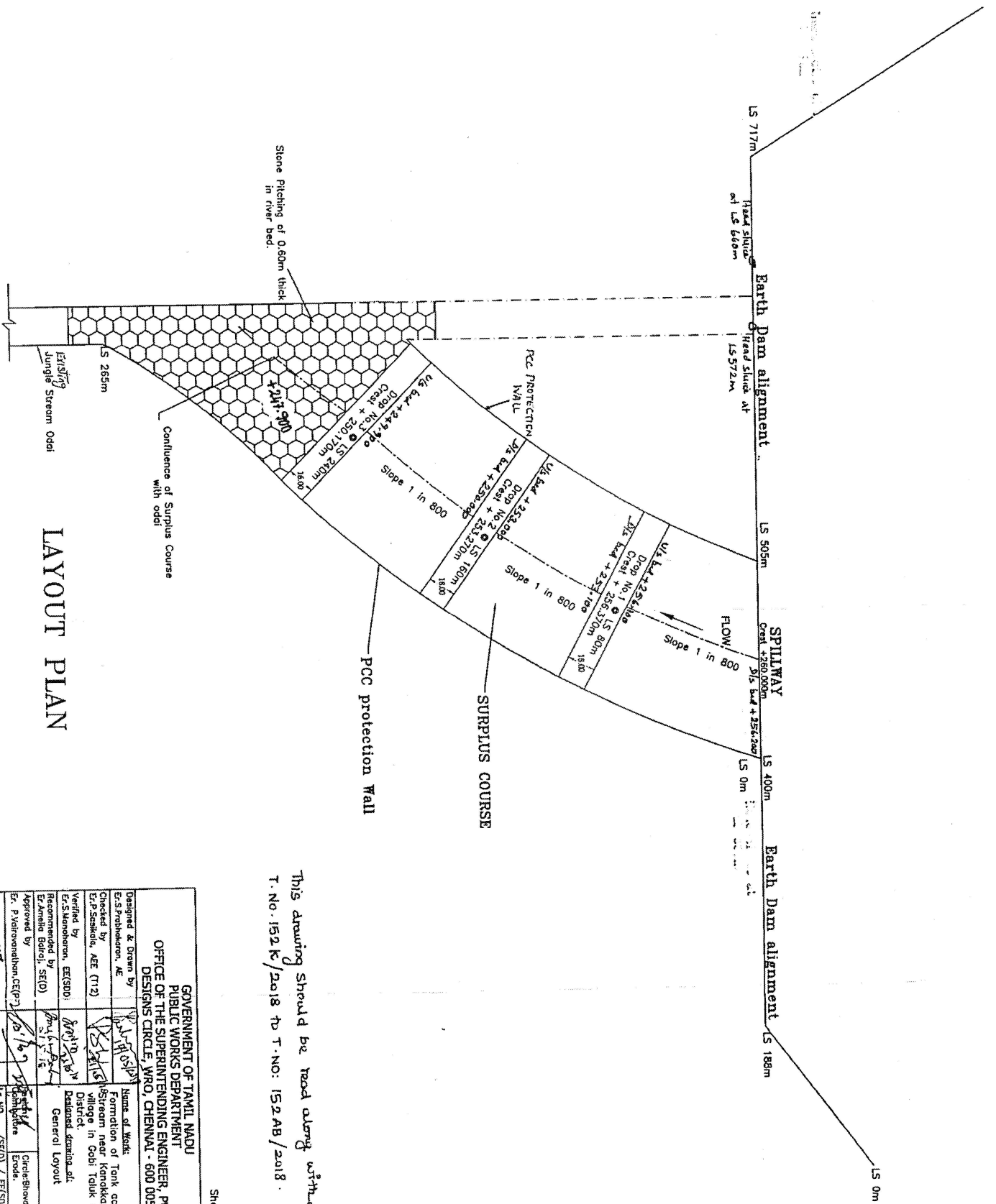


DETAIL AT 'Y' SCALE : 1:50

1. All dimensions are in metres unless otherwise specified
2. This drawing should be read along with Dwg.No.1524/2018 to Dwg.No.1524/2018.

GOVERNMENT OF TAMIL NADU PUBLIC WORKS DEPARTMENT OFFICE OF THE SUPERINTENDING ENGINEER, PWD, DESIGNS CIRCLE, WRO, CHENNAI - 600 005			
Designed & Drawn	E.T. Annadurai, A.E.	Scale of work:	
Checked by	E.B. Sankaralingam, A.E.	Formation of Tank across Jungle Stream Near	
Verified by	E.R. Prabhakar, DSE(D)	Kanakkampalayam Village of Cobi Taluk in	
Recommended by	E. Aravindan, SE(D)	Erode District	
Approved by	E.P. Varadachandran, CE(PF)	Typical sections of earthen bund	
T.N.O.1524/2018	SCALE: 1:250	Region: Erode	Circle: Erode
		Checked in by: ERO	SE(D) /
		14/11/2018 / DATED 22.03.2018	

SHEET NO : 7/9

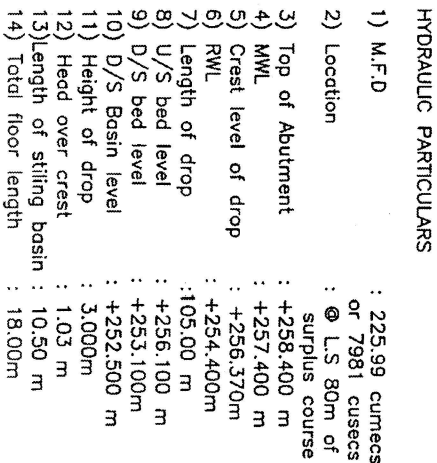


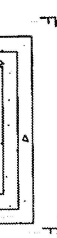
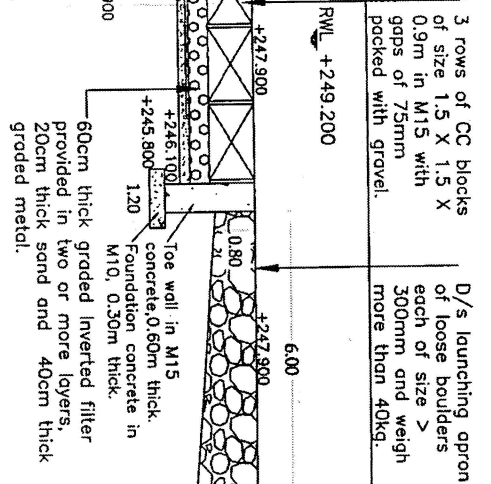
LAYOUT PLAN

This drawing should be read along with drawings
T. No. 152 k/2018 to T. No. 152 AB/2018.

Sheet No 1/7

GOVERNMENT OF TAMIL NADU PUBLIC WORKS DEPARTMENT OFFICE OF THE SUPERINTENDING ENGINEER, PMD, DESIGNS CIRCLE, WRO, CHENNAI - 600 005			
Designed & Drawn by	<i>[Signature]</i>	Name of Work	Formation of Tank across jungle
Checked by	<i>[Signature]</i>	Location	Formation near Kanakkampalayam
Verified by	<i>[Signature]</i>	District	Village in Gobi Taluk of Erode
Recommended by	<i>[Signature]</i>	Divisional Engineer	General Layout
Approved by	<i>[Signature]</i>	Circle Engineer	Circle Engineer Basin Circle,
		T. No. 152 k/2018 to T. No. 152 AB/2018	





HALF PLAN AT TOP

M.F.D : 225.99 cumecs

Location : @ Ls 240m of

Top of abutment : +252.200 m

MWL : +251.200 m

Crest level of drop : +250.170 m

BMI +249 200 m

Length of drop

structure : 105.00 m

U/s bed level : +249.900 m

D/s bed level : +247.900 m

D/s basin level : +247.400 m

Height of drop : 2.000 m

Head over crest : 1.03 m

.00
Total floor length : 16.00 m

1. All dimensions are in metres unless specified.

2. This drawing should be read along with drawings T. No.

1525/ 2018 to T. No. 15245/ 2018.

3. The proposed M15 concrete shall be of design mix.

[illegible]