

Full Title of the Project: Diversion of 4.864 ha of forest land in favour of Parkash M/s Bloot Fozal Hydro Pvt. Ltd. Apple Valley Resort, Mohal, Distt. Kullu HP for the c/o of Bloot Fozal Hydro Project (5.0 MW) within the jurisdiction of Kullu Forest Division, Distt. Kullu, HP.
Proposal No.: FP/HP/HYD/38741/2019

DETAIL OF MUCK TO BE GENERATED AND DISPOSED DURING THE CONSTRUCTION OF PROJECT

Component	Qty of Muck/ Debris to be generated (m ³)	Additional quantity of muck due to swell factor @40% (m ³)	Total quantity of muck/ debris (m ³) (1+2)	Estimated quantity of muck/ debris to be utilized (m ³)	Estimated quantity of muck/ debris to be dumped (4-5) (m ³)	Name of Dumping Sites	Area of dumping sites (hectare)	Avg. Height of Dumping Sites (mtr)
1.	2.	3.	4.	5.	6.	7.	8.	9.
Bloot Fozal SHEP (5.0 MW)	14445	5778	20223	9052	11171	MD-I MD-II MD-III MD-IV MD-V MD-VI	0.7835	1.5

Signature of User Agency

Office Seal

Divisional Forest Officer,
Kullu Forest Division, Kullu.

Full Title of the Project: Diversion of 4.864 ha of forest land in favour of Parkash M/s B loot Fozal Hydro Pvt. Ltd. Apple Valley Resort, Mohal, Distt. Kullu HP for the c/o of B loot Fozal Hydro Project (5.0 MW) within the jurisdiction of Kullu Forest Division, Distt. Kullu, HP.

Proposal No.: FP/HP/HYD/38741/2019

Detail of Muck/Debris to be used during construction of project

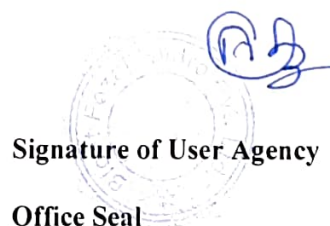
Sr. No.	Description	Quantity (in m ³)
1	For the soling purpose in the project	90% of hard rock for c/o soling, B/wall, R/wall etc.
2	For the wearing of the project	
3	For the retaining/Breast Walls	
4 (i)	Total quantity to be produced	20223
(ii)	Total quantity to be used	9052
(iii)	Net debris/muck to be dumped (i-ii)	11171

Detail of Dumping Sites

Sr. No.	Name of Dumping Site	Dumping Area (hectare)	Height of Dumping Site (mtr)	Capacity of Dumping Site (in m ³)	Quantity of Muck/ Debris to be dumped (m3)
1.	MD-I	(59x40.2) = 0.2372	1.5	3558	3466
2.	MD-II	(60x30) = 0.18	1.5	2700	2530
3.	MD-III	(30x30) = 0.09	1.5	1350	1300
4.	MD-IV	(45x30) = 0.135	1.5	2025	1950
5.	MD-V	(51x10) = 0.051	1.5	765	650
6.	MD-VI	(30x30) = 0.09	1.5	1350	1275
	Total	0.2504		11748	11171



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Detail of Muck/Debris to be generated and disposed during the construction of project

Sr. No.	Description of Item	Quantity (m ³)	Remarks
1.	Pick Work	3520	-
2.	Jumper Work	9550	-
3.	Hard Rock	1375	-
	Total	14445	

1. Total Muck/ Debris to be generated:

- a) Total Muck Dumping Generated = 14445 m³
- b) Applying swelling factor @ 40% of (a) = 5778 m³
- c) Total muck/debris to be generated ((a) + (b)) = 20223 m³

2. Total Muck/Debris to be utilized:

- a) 90% of Hard Rock for c/o soling/ R/wall, B/wall etc. = 1238 m³
- b) 40% of pick work and jumper work to be utilized in project = 5228 m³
- c) Applying swelling factor @ 40% = 2586 m³

Total muck/debris to be utilized including swell factor = 9052 m³

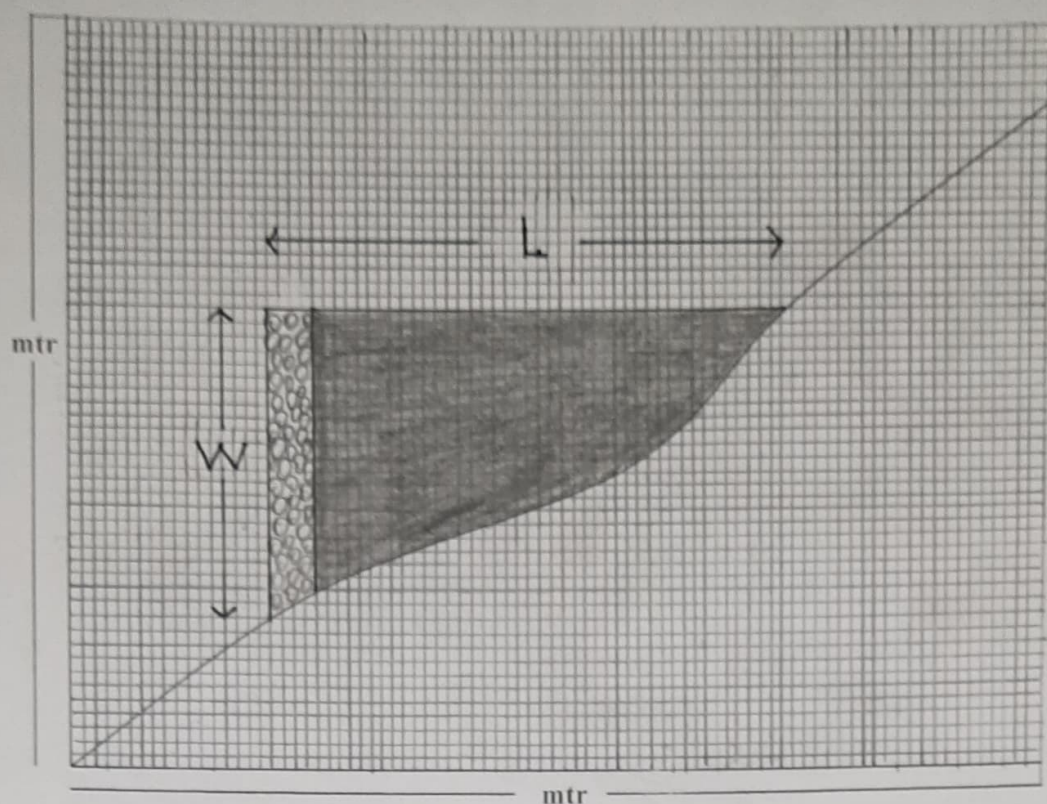
3. Balance muck/debris to be dumped:

- a) Total muck including swelling factor @40% to be generated = 20223 m³
- b) Muck to be used including swelling factor @40% = 9052 m³
- c) Total muck to be dumped ((a) - (b)) = 11171 m³

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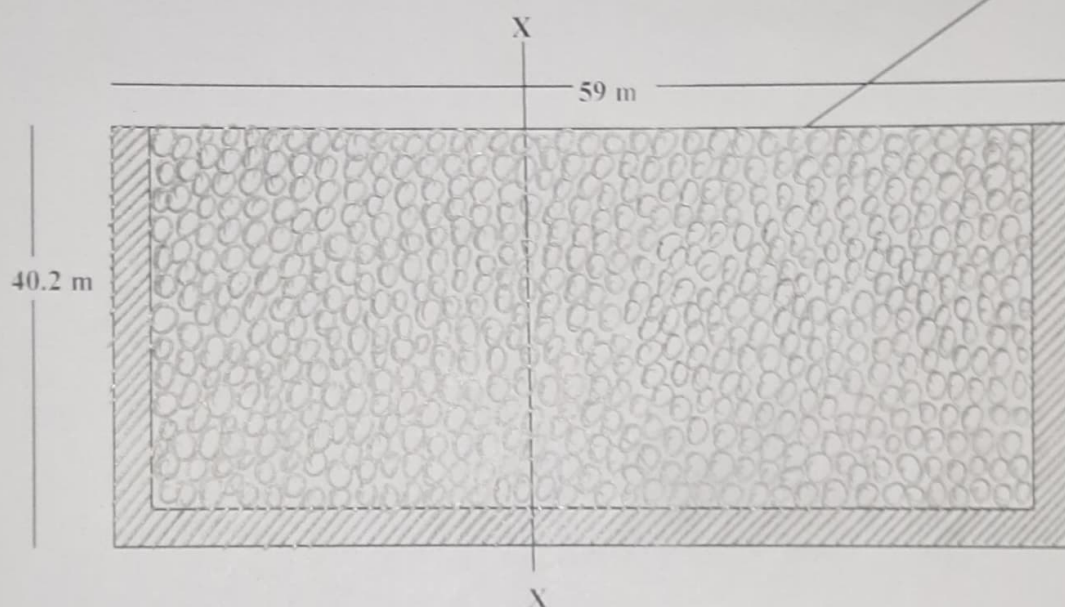
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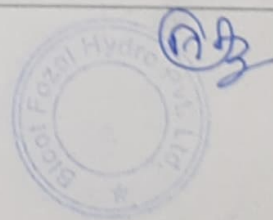
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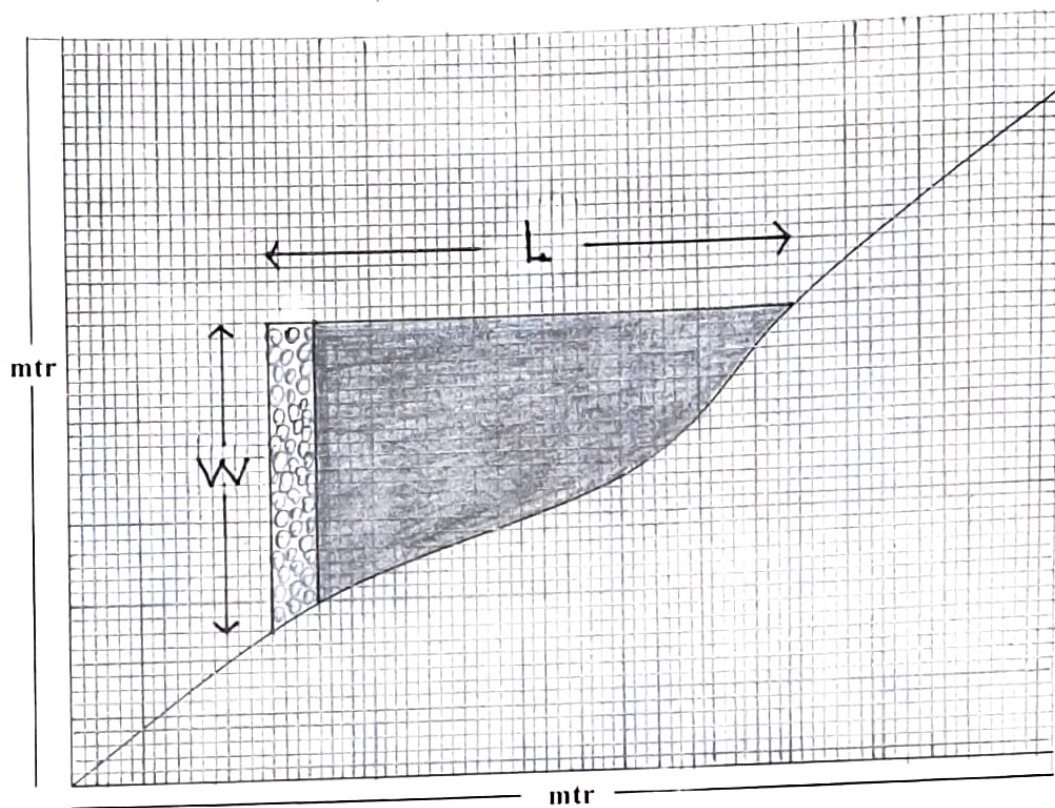
Boulders



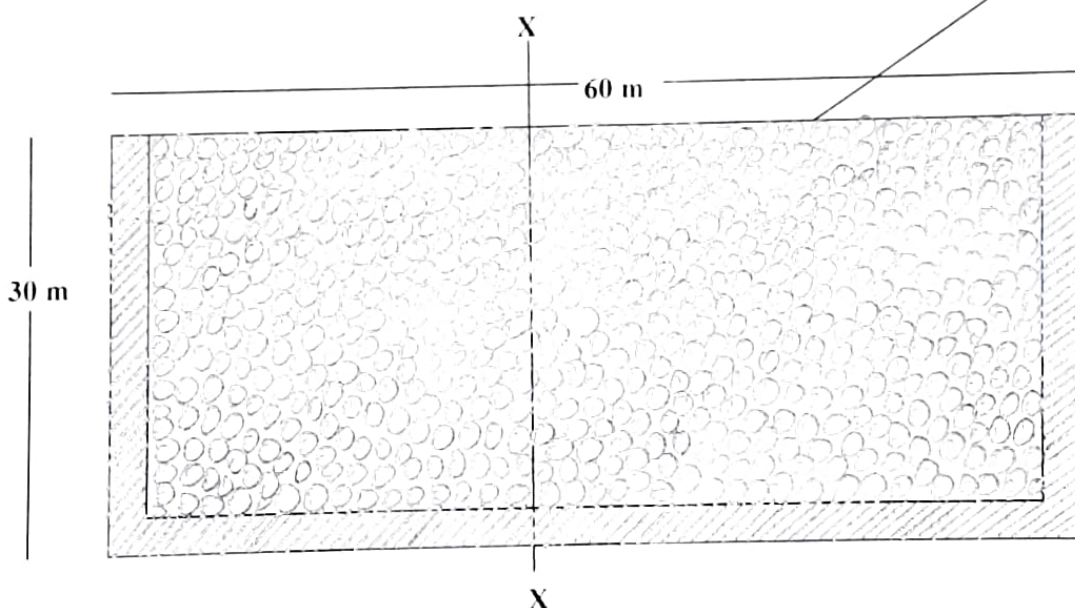
Particular	Qty	Unit	Muck Dumping Site-I C/o Bloot Fozal SHEP (5.0 MW)
Area	$59 \times 40.2 = 0.2372$	Hectare	
Avg. Height	1.5	Metre	
Capacity	3558	cum	

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X-Section

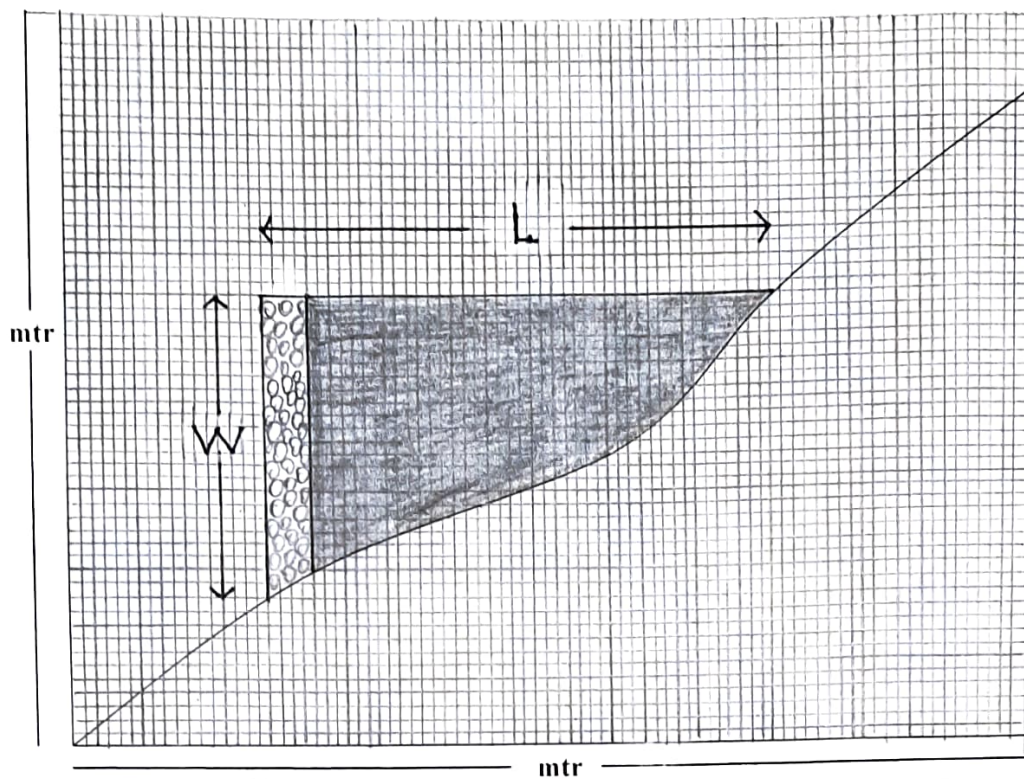


Particular	Qty	Unit	Muck Dumping Site-II C/o Bloot Fozal SHEP (5.0 MW)
Area	60x30=0.18	Hectare	
Avg. Height	1.5	Metre	
Capacity	2700	cum	

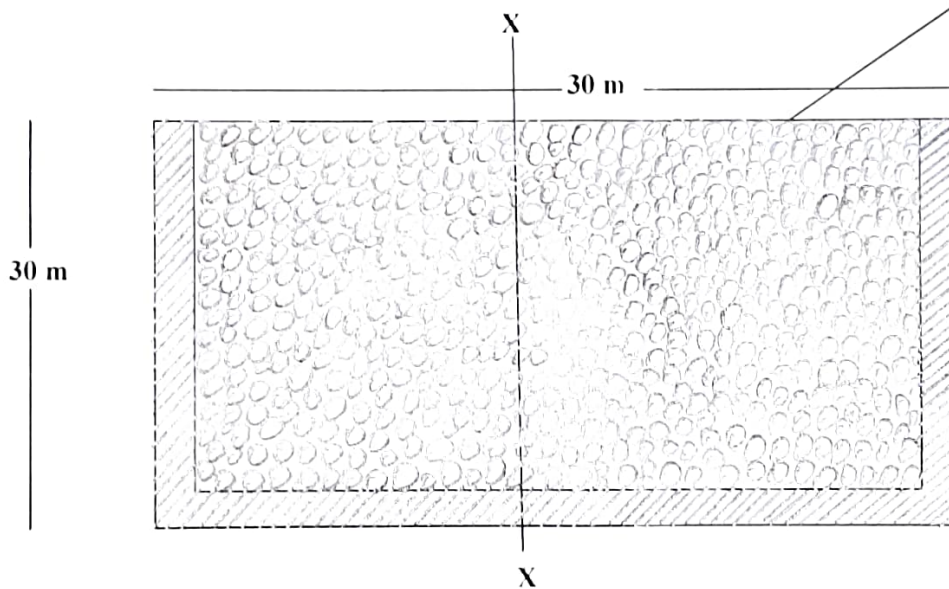

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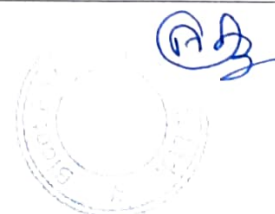


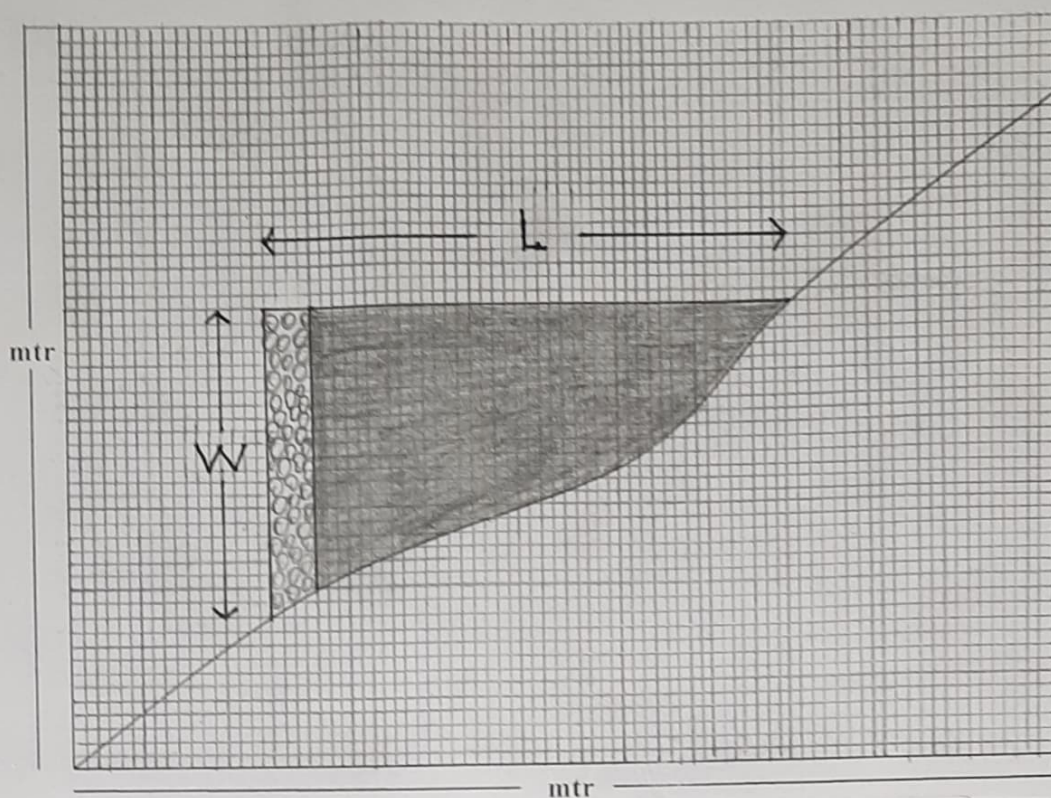
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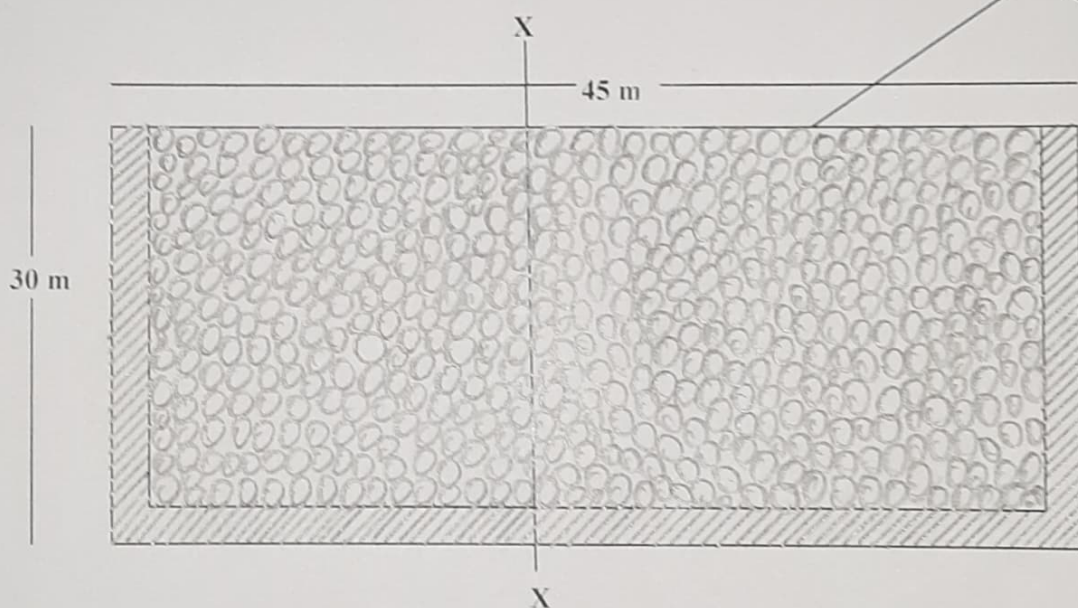
Particular	Qty	Unit	Muck Dumping Site-III C/o Bloot Fozal SHEP (5.0 MW)
Area	30x30=0.09	Hectare	
Avg. Height	1.5	Metre	
Capacity	1350	cum	


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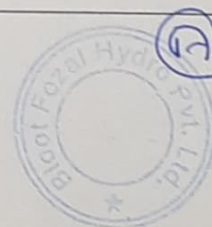
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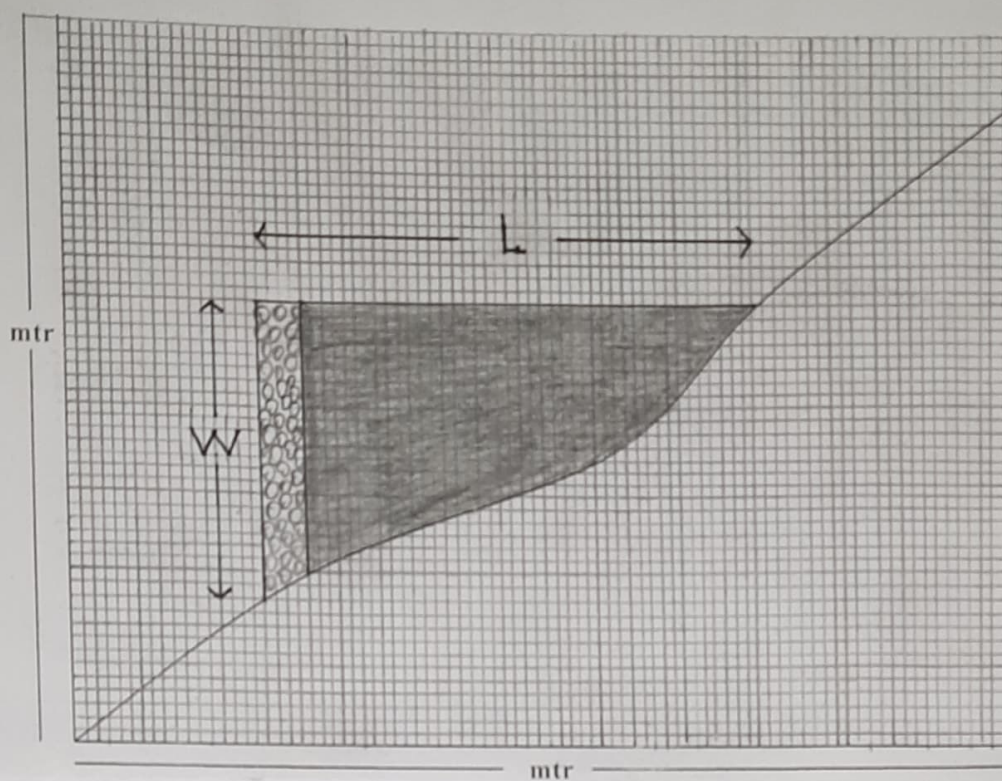


Boulders

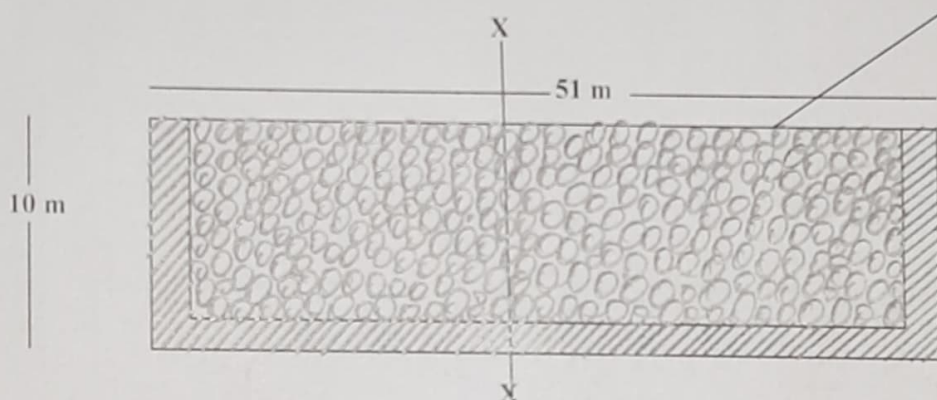
Particular	Qty	Unit	Muck Dumping Site-IV C/o Bloot Fozal SHEP (5.0 MW)
Area	45x30=0.135	Hectare	
Avg. Height	1.5	Metre	
Capacity	2025	cum	


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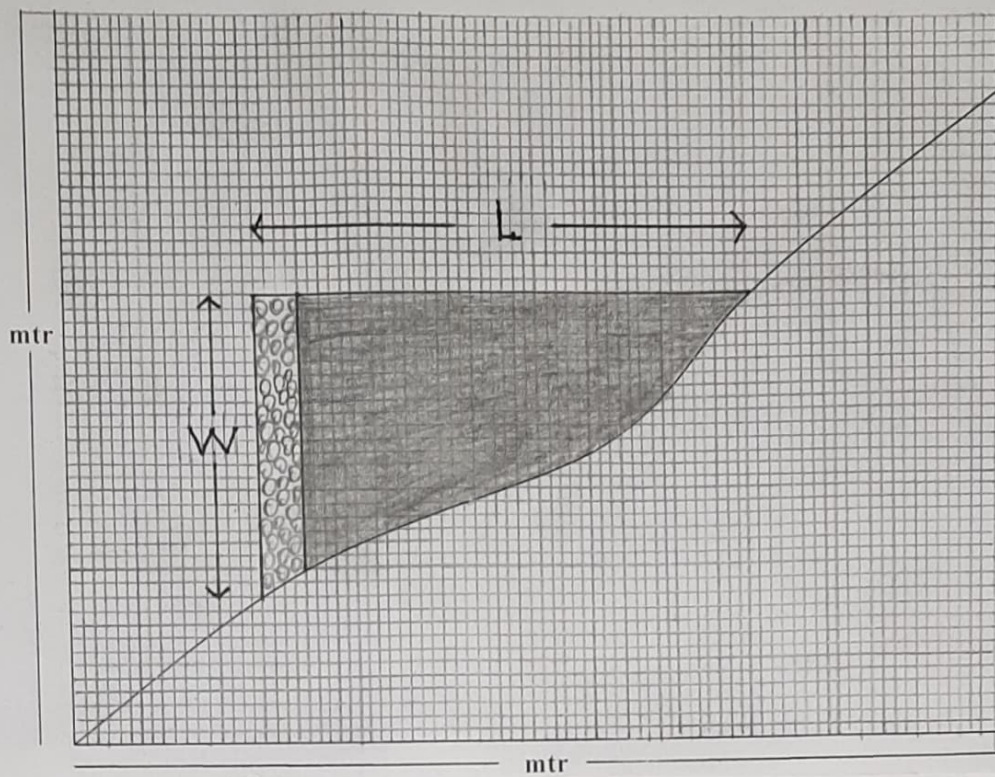
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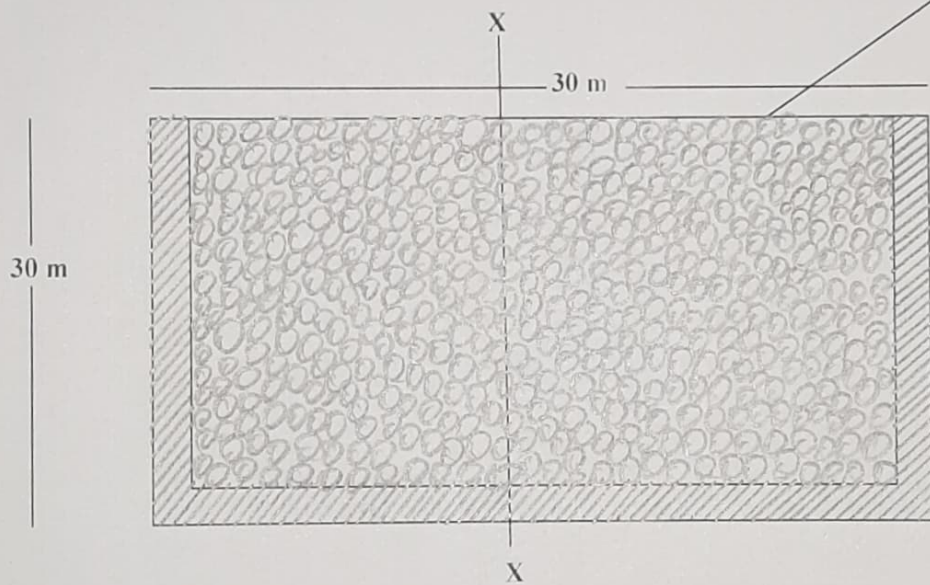
Particular	Qty	Unit	Muck Dumping Site-V C/o Bloot Fozal SHEP (5.0 MW)
Area	51x10=0.09	Hectare	
Avg. Height	1.5	Metre	
Capacity	765	cum	

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X-Section



Particular	Qty	Unit	Muck Dumping Site-VI C/o Bloot Fozal SHEP (5.0 MW)
Area	30x30=0.09	Hectare	
Avg. Height	1.5	Metre	
Capacity	1350	cum	

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