

## **ABSTRACT**

Schemes – Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) – Formation of Single Layer WBM Road, Construction of Cement Concrete Pavement, Construction of interlocking Paver Block pavement, Construction of Cement Concrete Drainage and Construction of Individual and Community Soak Pits in Rural areas at an estimated cost of Rs.2197.42 crore under MGNREGS 2023-2024 – Permission accorded – Orders – Issued.

## RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS.1) DEPARTMENT

G.O.(Ms.)No.95

Dated: 14.07.2023 சோபகிருது, ஆனி 29 திருவள்ளுவர் ஆண்டு–2054 Read:

- Announcement made by Hon'ble Minister (Rural Development) on the floor of Tamil Nadu Legislative Assembly on 30.03.2023.
- 2. G.O.(Ms.) No.65, Rural Development & Panchayat Raj (CGS1) Department, dated 21.04.2023.
- G.O.(Ms.) No.74, Rural Development & Panchayat Raj (CGS1) Department, dated 05.06.2023.
- 4. The Commissioner of Rural Development and Panchayat Raj, Letter No.64350/ 2023/MGNREGS 1.2, dated 01.06.2023.

## **ORDER:**

While replying to the debate on the demands for grants for Rural Development and Panchayat Raj Department on the floor of the Tamil Nadu Legislative Assembly on 30.03.2023, the Hon'ble Minister (Rural Development), has made the following Announcement:-

"விளிம்பு நிலை மக்களின் வாழ்க்கைத் தரத்தை மேம்படுத்த அவர்கள் வாழும் குடியிருப்புகளில் தேவையென கணடறியப்பட்டுள்ள முக்கியமான உட்கட்டமைப்பு வசதிகளான சாலைகள், கால்வாய்கள், தெரு விளக்குகள், குடிநீர் வசதிகள் போன்றவை பல்வேறு திட்டங்களை ஒருங்கிணைத்து 1500 கோடி ரூபாய் மதிப்பீட்டில் உருவாக்கப்படும். and the State Government respectively. The fund requirement and the Central and the State share for each work is as follows:

(Rupees in Crore)

(i) Formation of Single Layer			•		
	Materia	Component	(84.23%)	Labour Componen	t Grand
Description	Central Share (75%)	State Share (25%)	Total	(15.77%) (Central Share 100%	Total
Construction of Single layer WBM Road to a length of 1km = 25.06 lakhs. Cost for 3000 Km of WBM road =Rs.75180 Lakhs (Rs.751.80 Crores)  (ii) Construction of Cement Company (Construction of Cement Construction (Construction of Cement Construction (Construction of Cement Construction (Construction (Constructio	474.93	158.31	633.24	118.56	751.80
(ii) construction of cement co					
Description	Ma Central Share (75%)	(90.35%) State Share (25%)	Total	Labour Component (9.65%) (Central Share 100%)	Grand Total
Cost of Construction of CC Pavement/km = 46.77 Lakhs. Cost for 1000 km of CC Pavement = Rs.46770.00 Lakhs =(Rs.467.70 Crores)	316.93	105.64	422.57	45.13	467.70
(iii) Construction of Interlock	ing Paver Blo	ck Paveme	nt in Rural A		
Description	Material Central Share (75%)	Component State Share (25%)	(95.15%) Total	Labour Component (4.85%) (Central Share 100%)	Grand Total
Cost of Construction of Interlocking Paver Block Pavement/km = 49.80 Lakhs. Cost for 1000 km of Interlocking Paver Block Pavement = Rs.49800.00 Lakhs = (Rs.498.00 Crores)	355.39	118.46	473.85	24.15	498.00
(iv) Construction of Cement Co	oncrete Drain	age in Rura	l Areas		
		erial Compo (88.07 %)		Labour Component	
Description	Central Share (75%)	State Share (25%)	Total	(11.93 %) (Central Share 100%)	Grand Total
Cost of construction of CC Drain km. is Rs.52.84 lakhs. The cost of 350 km of CC Drain is Rs.18494 lakhs = Rs.184.94	122.16	40.72	162.88	22.06	184.94

crores

5. The details of work selection and Non-Negotiable items during implementation for the sanctioned works in para 3 above shall be as follows:-

## **Work Selection:-**

- 1. All works will be selected as per the GIS plan prepared for each village panchayats.
- The riding surface of the Cement Concrete Pavement/Paver Block Roads should be laid by taking into account the floor levels of the houses in order to ensure that the surface run-off does not enter into the residential units. Dummy duct with a pipe provision may be provided wherever necessary.
- 3. The Paver Block Road/CC Road should be taken up where houses are available on either side.
- The District Collector should document various process of the Scheme implementation starting from selection of works to completion of works, documenting the works with photographs, video etc.,
- 5. The Aspirational Districts Virudhunagar and Ramanathapuram as well as the Backward Districts like Sivagangai, Pudukottai, Dharmapuri, Krishnagiri, Ariyalur and Perambalur shall be given maximum possible number of works.

### Non-Negotiable Items:-

- 1. Citizen Information Board shall be kept at the work site in 3 X 4 feet with all necessary information as per the framework given by the Government of India vide Ref No: K-11023/1/1/2017 MGNREGA (IV), Ministry of Rural Development, Dated 07.04.2017. The cost of Citizen Information Board will be fixed at Rs.4,500/per unit for brick work, Rs.4000/- per unit for precast concrete slab and Rs.1000/- for wall painting. The cost of the Citizen Information Board shall be included in the estimate itself.
- 2. Estimate creation, Administrative sanction and Technical sanction shall be done in SECURE software.
- 3. Geo-Tagging of Assets at all three i.e., before, during and after completion should be ensured.
- 4. The Government of India have notified the wage rate for the Financial Year 2023-24 as Rs.294/- which has been approved in the Government order 2<sup>nd</sup> read above.

#### **ANNEXURE-I**

## G.O.(MS).No.95, RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS-1) DEPARTMENT, DATED: 14.07.2023

## **GUIDELINES FOR SINGLE LAYER WBM ROAD**

## Non - PMGSY (Pradhan Mantri Gram SadakYojna) Roads to be taken-up:

- 1. Single all-weather motorable connectivity to habitations not eligible under PMGSY, but at a standard that enables up-gradation to PMGSY standard in due course (either due to increase in population and/or because of higher traffic making the road eligible for such up-gradation).
- 2. Inter-habitation and link roads of socio economic importance which are not included in PMGSY Core Network on account of being multiple links.
- 3. It has to be ensured that only earthen/gravel surface roads are taken up for upgrading to single layer WBM standard.
- 4. Roads which are eligible under PMGSY in the ensuing phases may be taken up for single layer WBM standard and subsequent up gradation to BT standard has to be ensured under PMGSY scheme.
- 5. The roads which are connecting the unconnected habitations, inter habitation roads, internal roads of habitations and Farm net roads can be improved upto Grade II WBM layer under MGNREGS and subsequent surface up gradation is to be taken up under any of the suitable scheme

Under PMGSY, roads can be constructed only up-to an important location in the habitation which is normally Village Panchayat (VP), Govt. School or community facility. "The remaining part of the road and other streets within the habitation may be taken up under this programme including side drains.

The roads that connect unconnected habitations, inter habitation roads, internal roads of habitations and Farm net roads can be improved upto Grade II WBM layer under Rural connectivity category of MGNREGS. The roads thus improved upto Grade II WBM layer may be improved upto BT standard in PMGSY or any other state schemes in the subsequent years.

### Selection of Roads:

The following Guiding Principles and Selection Procedure shall be adopted for the selection of roads under MGNREGS:

- All roads available in the Village Panchayat including roads connecting unconnected habitations, inter habitation roads, internal roads of habitations and Farm net roads shall be identified for every village Panchayat and should be approved from Grama Sabha.
- 2. The roads under Rural Connectivity shall be selected from the approved roads list by the Grama Sabhas of every Village Panchayats.
- 3. Priority shall be given to all unconnected habitations having less than 500 populations based on 2011 census as per PMGSY –I core network.
- Only New Connectivity would be provided under this Scheme and not Upgradation except gravel surface roads having no crust.
- 5. This Scheme would cover only for Village Panchayat Roads (VPR) and Panchayat Union Roads (PUR).

### ANNEXURE-II

# G.O.(Ms).No.95, Rural Development and Panchayat Raj (CGS-1) Department, Dated 14.07.2023 Estimate for Single Layer WBM Road formation (Rural Connectivity) under Mahatma Gandhi NREGS (For 1km length)

#### **Abstract Estimate**

			Estimate amount Rs	250600	0	
SI. No	Quantity	Unit	Description work	Rate	Per	Amount (In Rs.)
1	1200	Sqm	Provition for scrub Jungle Clearance	19.0	7 Sqm	2288
2	900.00	Cum	Earth work excavation and depositing on bank with initial lead and lift in hard gravelly soil, hard stiff clay, black cotton soil, hard red earth, shales, murram, and earth muds with 50% fair sized boulders as per SS 20B for narrow foundation.  KM 0/0-1/0		5 Cum	25254
			Construction of Granular Sub base by providing well graded material (63mm to 26.5mm @35%,26.5mm to 4.75 @45% and 4.75 mm below @ 20%)& spreading in uniform layers with tractor with grader on prepared surface mixing by mix in place method with rotovator at OMC and compacting with three wheel 80-100 KN capacity and finished in accordance with the requirements of the specification and thickness as per approved plans or as directed by the Engineer as per (Mix -in - place method)	200.0	Cum	23234
3	562.50	Cum	KM 0/0-1/0	1630.03	Cum	916892
			Providing and laying the WBM 75mm compacted thickness with Grade-II metal using 1:00 cum of 63-45 mm IRC HBG. Metal with 0.24 cum gravel mix blind age per 10sqm of 75 mm thickness. The value of below 6% including cost and conveyance of materials and stacking them at the site to the departmental gauge for pre measurement, labour charges for spreading metal and gravel hand packing to chamber with all leads for water and compaction by 8-10 tonne power roller including hire charges and fuel charges for power roller water sprinkler and all other tools and plants employed Barricading etc., complete as per clause 404 of MOST specification.			
4	281.25	Cum	KM 0/0-1/0	2428.49	Cum	683013
			Providing and Laying Gravel to 100mm compacted thick including cost & conveyance of gravel from approved sources to work site including labour for spreading, watering and compacting by Power roller to achieve the required Proctor density at 100% compaction (Berms)			
5	450.00	Cum 1	KM 0/0-1/0	537.78	Cum	242001
<u> </u>	1	Nos I	Provision for KM Stone	443.3	Sqm	443.3
_	4 .	Nos I	Provision for HM Stone	226.2		904.8
$\bot$			SUB Total		Rs.	2118678
3	1	Nos I	Provision for Citizen Information Board			4500
			Provision for GST (18%)		L.S	381362
0			Provision for Photographic charges		L.S	-500
1			Contigency and other unforseen items etc.		L.S	960
			Total		Rs.	2506000

4	Providing and Laying Gra conveyance of gravel from spreading, watering and Proctor density at 100% co	n appro	oved s cting b	ources to wo by Power roll	rk si	te includin	g labour for		
	KM 0/0-1/0	1	2	1000.00	1.20	1.00	0.225	450.00	Cum
	Total							450.00	Cum
5	Provision for KM Stone							1	
6	Provision for HM Stone							4	_
7	Provision for Citizen Infor	nation	Board					LS	
8	Provision for Photographic	charg	es				·	LS	
9	Provision for GST 18%				-			18%	
11	Contigency and other unfo	rseen i	tems (	etc.				LS	

P.SENTHILKUMAR PRINCIPAL SECRETARY TO GOVERNMENT

Section officer

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#### **ANNEXURE-III**

## G.O.(MS).No.95, RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS-1) DEPARTMENT, DATED: 14.07.2023

#### **GUIDELINES FOR CEMENT CONCRETE ROAD**

#### **Work Selection:**

- Cement Concrete pavement shall be proposed under MGNREGS in the Street/Lanes
  of the Village Panchayats wherein allocation under 15<sup>th</sup> Finance Commission/State
  Finance Commission Grant is less and specifically streets/lanes/roads which give
  access to SC/ST/Hilly habitations, should be given first priority.
- 2. Priority shall be given to the Village Panchayats selected for the implementation of AnaithuGrama Anna Marumalarchi Thittam-II (AGAMT-II).
- 3. Only those streets and lanes which have residential units on both sides of the pavement should be selected.
- 4. Street and lanes in newly developed layouts should not be selected until the lands of common areas are transferred to the Village panchayats.
- 5. Street and lanes in newly developed layouts /newly formed streets with fewer houses should not be selected.
- 6. Streets and lanes in low-lying areas prone to water logging during rainy seasons should be selected.
- 7. The width of streets/lanes taken-up should preferably be not more than 3.00m in width.
- 8. The site selected should be inspected both by Block Development Officer and Assistant Engineer/Block Engineer.

Deliberately splitting-up of a single work into two or more individual works to avoid higher level Administrative and Technical Scrutiny should never be resorted to. Any such instance will lead to severe disciplinary action.

#### Technical Specifications for execution of works:

- Under Exceptional circumstances and wherever it is warranted, more than 3m width of Cement Concrete Pavementmay be taken-up based on the vehicular traffic and necessity and IRC SP: 62 2004 "Design and Construction of Cement Concrete Pavement for Low Volume Roads" should be strictly adopted for pavement design.
- 2. Existing surface should be cleaned properly, sectioned, levelled and compacted properly. In case of poor/loose soil where CBR is less than 4%, the existing surface should be strengthened adequately.
- 3. The riding surface of the Cement Concrete pavement should be laid by taking into account of the floor levels of the houses in order to ensure that the surface run-off does not enter into the residential units.
- 4. Sand for filling may be substituted with M-Sand wherever river sand is not available.
- 5. Both sides of the Cement Concrete pavement should be filled up with unscreened gravel as this avoids stagnation of water on both sides and prevents breaking of edges apart from preventing skidding of two-wheelers and pedestrians. Gentle camber (2%) may be provided so that the water may drain easily.

### ANNEXURE-IV G.O.(Ms).No.95, Rural Development and Panchayat Raj (CGS-1) Department, Dated 14.07.2023

## Estimate for Providing Cement Concrete Pavement (1km Length) under Mahatma Gandhi NREGS **Detailed cum Abstract Estimate**

		т -						nate Amount		1-
SI.	Details of Work		No.		N	Measurement .	in	0	Amou	nt
No.					L.	В.	D.	Contents	(In Rs.	.)
1	Earth work excavation and depositing for narrow foundations, etc,.complete	on ban (Found	ik w latio	ith ini n for	tial lead and Corewall)	lift in hard stiff	clay and ha	rd gravelly soil	as per SS20B	
	core wall	1	x	2	1000.00	0.30	0.300	180.00		
								180.00		T
	180.00			<u> </u>		280.6			5050	8
2	Cement Concrete 1:4:8 (One Cement jelly for foundation including cost and complete as per standard specification	convey	and	and e of n	eight Hard B naterials to s	roken stone) u ite and labour	sing 40 mm charges for l	gauge Hard Br aying, watering	oken Granite s and compacti	tone
	Pavement	1	x	1	1000.00	2.54	0.100	254.00		Τ
	core wali	1	х	2	1000.00	0.30	0.100	60.00		$^{\dagger}$
								314.00	m <sup>3</sup>	T
	314.00 Cement Concrete 1:3:6 ( One Cement		L			4937.75			1550454	
3	stone jelly for foundation including cost compacting etc., complete as per stand	and co	ecif	icatio	n.		1			
$\overline{}$	nara wall									
$\overline{}$	core wall	1	×	2	1000.00	0.23	0.300	138.00		╀
$\overline{}$		1	×	2	1000.00			138.00	m <sup>3</sup>	
	138.00	m³ [wo sa				5646.80	/M <sup>3</sup>	138.00	m³ 779258	
5		Two sa	nd,	Four	Hard Broken	5646.80 stone) using 2	/M³	138.00 machine brok	m³ 779258	1 _
5	138.00 Cement Concrete 1:2:4 (One cement, granite stone jelly fincluding cost conve	Two sa yance	nd,	Four all la	Hard Broken	5646.80 stone) using 2	/M³	138.00 machine brok	m³ 779258 en hard broker complete as p	1 -
5	138.00 Cement Concrete 1:2:4 (One cement, granite stone jelly fincluding cost convestandard specification.	Two sa eyance 1	nd, and	Four all la	Hard Broken	5646.80 stone) using 2 s for laying, wa	/M³ 20 mm guage atering and c	138.00 e machine brok ompacting etc.	m³ 779258 xen hard broker , complete as p	1 _
5	138.00 Cement Concrete 1:2:4 (One cement, granite stone jelly fincluding cost convestandard specification.  Wearing coat	Two sa eyance 1 m <sup>3</sup>	nd, and	Four all la	Hard Broken abour charge: 1000.00	5646.80 stone) using 2 s for laying, wa	/M³ 20 mm guage atering and c	138.00 e machine brok ompacting etc. 225.00	m³ 779258 xen hard broker , complete as p	per
5	138.00 Cement Concrete 1:2:4 (One cement, granite stone jelly fincluding cost convestandard specification Wearing coat	Two saryance  1  m <sup>3</sup> 75mm	nd, and	Four all la	Hard Broken abour charge: 1000.00	5646.80 stone) using 2 s for laying, wa 3.00	/M³ 20 mm guage atering and c	138.00 e machine brok ompacting etc. 225.00 225.00	m³ 779258 sen hard broker , complete as p	per
5	138.00 Cement Concrete 1:2:4 (One cement, granite stone jelly fincluding cost convestandard specification.  . Wearing coat  225.00 Towards expansion joint Bitumen pad (	Two saryance  1  m <sup>3</sup> 75mm	nd, and	Four all la	Hard Broken abour charge: 1000.00	5646.80 stone) using 2 s for laying, wa 3.00 6310.35	/M³ 20 mm guage atering and c 0.075 /M³	138.00 e machine brok ompacting etc. 225.00	m³ 779258 sen hard broker , complete as p  m³ 1419829	per
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5 6 77	Cement Concrete 1:2:4 (One cement, granite stone jelly fincluding cost convestandard specification.  . Wearing coat  225.00  Towards expansion joint Bitumen pad (45.00  Towards centering charges inclusive o	rwo sa eyance 1 m³ 75mm 1	nd, and thick	Four all la 1 kness 200	Hard Broken abour charge: 1000.00 3.00	5646.80 stone) using 2 s for laying, wa 3.00 6310.35	/M³ 20 mm guage atering and c 0.075 /M³ 0.075 /M² plete as per s	138.00 e machine brokompacting etc. 225.00 225.00 45.00 standard specif	m³ 779258 cen hard broker , complete as p m³ 1419829	per
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5 6 7 -	Cement Concrete 1:2:4 (One cement, granite stone jelly fincluding cost convestandard specification.  . Wearing coat  225.00  Towards expansion joint Bitumen pad (45.00  Towards centering charges inclusive of core wall	rwo sa eyance 1 m³ 75mm 1 f all ma	nd, and thic x	Four I all la	Hard Broken abour charge: 1000.00 3.00 3 labour char	5646.80 stone) using 2 s for laying, wa 3.00 6310.35	/M³ 20 mm guage atering and c  0.075  /M³  0.075  /M²  Diete as per s  0.300  0.075	138.00 e machine brokompacting etc. 225.00 225.00 45.00 standard specif 1200.00 150.00	m³ 779258 cen hard broker , complete as p  m³ 1419829  10544 fication.	per
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5 66 77 - G	Cement Concrete 1:2:4 (One cement, granite stone jelly fincluding cost convestandard specification.  Wearing coat  225.00  Towards expansion joint Bitumen pad (  45.00  Towards centering charges inclusive or core wall core wall  2350.00  Provision For Citizen Information Board	1 m³ 75mm 1 f all ma 2 2 with br	nd, and thick	Four lall lall lall lall lall lall lall la	Hard Broken abour charge: 1000.00 3.00 3 labour char	5646.80 stone) using 2 s for laying, wa 3.00 6310.35 234.3 ges etc., comp	/M³ 20 mm guage atering and c  0.075  /M³  0.075  /M²  Diete as per s  0.300  0.075	138.00 e machine brokompacting etc. 225.00 225.00 45.00 standard specif 1200.00 150.00 1350.00	m³ 779258 cen hard broker , complete as p  m³ 1419829  10544 fication.  148500 AL 3959093 4500 3% 712637	per
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PRINCIPAL SECRETARY TO GOVERNMENT
SECTION OFFICER

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#### **ANNEXURE-V**

## G.O.(MS).No.95, RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS-1) DEPARTMENT, DATED: 14.07.2023

#### **GUIDELINES FOR PAVER BLOCK**

## **Work Selection:**

- 1) Interlocking Paver block pavement shall be proposed under MGNREGS in the Street/Lanes of Village Panchayats wherein allocation under 15<sup>th</sup> Finance Commission/State Finance Commission Grant is less and specifically streets/lanes/roads which give access to SC/ST/Hilly habitations, should be given first priority.
- 2) Priority shall be given to the Village Panchayats selected for the implementation of AnaithuGrama Anna Marumalarchi Thittam-II (AGAMT-II).
- 3) Only those street and lanes which have residential units on both sides of the pavement should be selected.
- 4) Street and lanes in newly developed layouts should not be selected until the lands of common areas are transferred to the Village panchayats.
- 5) Street and lanes in newly developed layouts /newly formed streets with few houses or scattered houses should not be selected.
- 6) Street and lanes in low-lying areas prone to water logging during rainy seasons should not be selected.
- 7) The width of street and Lanes taken-up should preferably be not more than 3.00m in width.
- 8) The site selected should be inspected both by Block Development Officer (VPs) and Assistant Engineer/Block Engineer.
- 9) Deliberately splitting-up of a single work into two or more individual works to avoid higher level Administrative and Technical Scrutiny should never be resorted to. Any such instance will lead to severe disciplinary action.

## **Technical Specifications for execution of works**

- Under Exceptional circumstances and wherever it is warranted, more than 3m width
  of Interlocking paver block may be taken-up based on the vehicular traffic and
  necessity and IRC SP: 63 2004 "Guidelines for the use of Interlocking Concrete
  Block Pavement" should be strictly adopted for pavement design.
- 2. Existing Surface surface should be cleaned properly, sectioned, levelled and compacted properly. In case of poor/loose soil where CBR is less than 4%, the existing surface should be strengthened adequately.
- Side Wall The edges of the pavement should be provided with kerb wall (or) core wall using Cement Concrete mix in the ratio 1:3:6 for 15cm thickness with a foundation depth of 30cm. The construction of core wall should be completed before laying of sand.
- Cross-drainage provision must be given so as to avoid water logging on both sides of the pavement. The Cross drainage structures essentially required for these street/lanes shall be constructed and provisions may be incorporated in the estimates prepared under MGNREGS in the FY 2023-24.
- 3. Bedding course A GSB layer of 150mm thickness shall be laid uniformly and compacted with proper level and 2% camber should be maintained throughout the surface.

#### ANNEXURE-VI

## G.O.(Ms).No.95, Rural Development and Panchayat Raj (CGS-1) Department, Dated 14.07.2023 Estimate for Providing Interlocking Paver Block (1 Km length) under Mahatma Gandhi NREGS

## ABSTRACT CUM DETAILED ESTIMATE

SI.	T	Т			T		ate Amou	nt : Ks.	498	80000
No.	Details of Work		No	).	L.	Measuremen B.	D.	Contents		Amount (In Rs.)
	Earth work excavation and depositing on bar as per SS20B for narrow foundations etcco	nk w	ith ir ete a	nitial Is pe	lead and lift i	in hard stiff cla		gravelly soil		
	Core wall	1	x	2	1000	0.3	0.2	120	m <sup>3</sup>	
	120	m³	:			280.6			Ť	3367
2	Cement Concrete 1:4:8 (One Cement Four s Hard Broken Granite stone jelly for foundatio labour charges at site, including curing etc., o	sanc n ind	l and	na co	ost and conv	en Granite store	ne) usina 4	10 mm gauge site and all	9	
	Core wall	1	lix	2	1000	0.3	0.1	60	) m <sup>3</sup>	
	60	m <sup>3</sup>		_		4937.75	/M³			29626
3	Cement Concrete 1:3:6 (One Cement three Hard Broken Granite stone jelly for foundation labour charges at site, including curing etc., or	n înc	cludio	ng co	st and conv	Granite stone	e) usina 20	mm gauge site and all		
	core wall	1	x	2	1000	0.23	0.35	161	12	
	161	m³				5646.80	/M <sup>3</sup>		-	909135
									1	
7	Towards centering charges inclusive of all m	_		_					T = T	on.
	core wall	2	X	2	1000.00		0.350	1400.00	1	
			_					1400.00		
	1400.00		<u> </u>	L		476.5	/M²			667100
5	Providing GSB Grade III from approved quan- conveyance of all materials to site and all labo standard specification.	ry ar	nd st charg	aking ges a	g them at site t site, includ	e to dept. gauging watering a	ge for pre-n nd compac	neasuremen tion etc., cor	t inclu	uding cost and e as per
	For pavement	1	x	1	1000	2.54	0.15	381	m <sup>3</sup>	<u> </u>
	381					1630.03		301		621041
6	Flooring with paver blocks using interlocking of layer of 25mm thickness and joints shall be fill to site and all labour charges at site, including For the road ( 6 cm thick block)	conc cos	by fin	e sa	nd of specific	ickness 60mn ed grading in and watering 2.54	n and comp cluding cos etc., comple	t and convey	ance andai	bedding sand of all materials of specification.
	2540	un.	7	$\dashv$	]	664.70	-	Cub Tatal	+	1688338
7	Provision for Citizen Information Board		1		i			Sub Total		4215551
-4	1 Toylston for Citizen Hilotination Board	I					ļi	LS		4500
8	Provision for GST(18%)							LS		758799
10	Provision for Photographic charges							S		500
11	Contingencies							_S		650
								TOTAL F	s.:	4980000

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#### ANNEXURE-VII

## G.O.(MS).No.95, RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS-1) DEPARTMENT, DATED: 14.07.2023

#### **GUIDELINES FOR CEMENT CONCRETE DRAINAGE**

## **General Instructions:**

- Streets where grey water is stagnating and causing nuisance to public shall be taken.
- Streets with comparatively more number of households and without space for providing soakpits at individual household level, should be given priority.
- Sewage water from households should never get mixed with the grey water that is let out into the street drain.
- The drain constructed should end at a proper disposal point so as to drain out the collected grey water.
- Based on the space availability, at the end point of disposal, either Horizontal filter soak pit or Vertical filter soak pit shall be constructed. The filtered grey water can be used for irrigation purposes.
- The drain should have proper bed slope.
- The size of the drain should be designed properly to cater the quantity of grey water generated in the selected area.

### **Work Selection**

- Priority shall be given to the Village Panchayats selected for the implementation of Anaithu Grama Anna Marumalarchi Thittam-II (AGAMT-II)
- Drain shall be constructed along with Paver Block/CC Road based on the quantity of grey water generated in the selected area.
- Selection of sites shall be based on descending order of population.

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## ANNEXURE-VIII G.O.(Ms).No.95, Rural Development and Panchayat Raj (CGS-1) Department, Dated 14.07.2023 Estimate for construction of CC Drain under Mahatma Gandhi NREGS

Rs. 5284000

### DETAILED AND ABSTRACT ESTIMATE

SI.	Description of work	T	١	los	L	В	D	Quant	ity	Rate	Per	Amount
No.	Earth work excavation and	den		iting	on bank v	with an initia	lord of	Om and life	of 2	m in sond	ailt a	
•	other loose soil, wet sand o	ıc bi	US It	not u	nder wate	wiiii an miii ar light blac	k cotton e	oil candy li	01 Z	m in sano, and ordina	SIII O	
	including excavated earth et					a, agait biac	K COROTI S	on, sandy n	Jaili	and ordina	iy Sui	1
		·., .	-									
		T	Т	-	1	T	T -	T	T	T		-
		$^{\dagger}$	t		+				+	+	+	<del> </del>
_	I Depth	1	×	1	1,000.00	1.26	0.30	378.00	) M³			
		+	T				1	378.00		<del></del>		
		$\top$	Ť		<del>                                     </del>		Say	+	_	280.60	1M <sup>2</sup>	106067
		T	Т									
	II Depth	1	×	1	1,000.00	1.26	0.30	378.00	M <sup>3</sup>			
		]						378.00	M <sup>3</sup>			
	180	I	Ι				Say	378.00	$M^3$	346.39	1M <sup>3</sup>	130935
2	Cement concrete 1:4:8 mix	llei	n	1 40r	nm ISS si	ize HRG m	etal includ	ling all cos	t and	CORVEYOR	00.01	
_	materials from approved sou	uo.	2	לה זאנ	rksite incl	udina cost i	otal includ	to he emnol	i and d	l conveyant	ally of	
	section stores including han											
	out water labour charges fo											
	including hire and fuel charge											
	complying with standard spe	cific	al	ion	rai cinp	noyeu and	an outer a	iolucinai G	large	o elc. con	ibiete	
		T	П		F	1	T		Υ-		_	
		1	×	1	1,000.00	1.26	0.20	252.00	8.83		+	
$\dashv$	·	+-	Ĥ	1	1,000.00	1.20	0.20	252.00			<b>∔</b>	
$\dashv$		⊢	Н	-	-		Cour	252.00		4007.75	4 1 43	4044040
+			Н				Say:	<u>252.00</u>	IVI	4937.75	1M <sup>3</sup>	1244313
3	Company to a series de 2.0.0 milio	_	Н		100	LUDO	<del>                                     </del>				<u>.                                    </u>	
٥	Cement concrete 1:3:6 mix	usi	ng	20n	nm 155 si	ze HBG m	etal includ	ing all cost	and	conveyan	ce of	
	materials from approved sou											
	section stores including hand out water labour charges for											
	including hire and fuel charg	1111	fo	rall	TSD omn	ying compa	all other in	ig willi ali i	eaus	for good v	water	
l.	complying with standard spec	jes Sific	ot.	ion	roce emp	noyed and	ali other li	icidental cr	arge	s etc. com	piete	
		1	×	2	1,000.00	0.23	0.60	276.00	М³			
$\perp$							TOTAL =	276.00	М³			
_		Ш					Say:	276.00	M <sup>3</sup>	5646.80	$1M^3$	1558517
T	,	$\Box$	7									
. +		Щ					<u></u>		L			
4	Supplying and erecting cent	erir	ng	for	sides for	all cement	concrete	works usir	ıg Mi	ld steel sh	neets	
1	stiffened with Mild steel Angl	es	ine	cludir	ng removii	ng the sam	e after spe	ecified perio	od wi	thout dama	aging	
	vorks etc., complete											
a) [	or drain wall sides											
		2	×۱	2	1,000.00		0.60	2,400.00	M <sup>2</sup>			
-		H	t				Say =	2400.00	B/12	476.50	11/12	1143600
十			t				Oay =	<u> 2400.00</u>	IAI	470.50	111/1	1143000
十		$\vdash \vdash$	†		-							-
5 F	Plastering with cement morta	r 1	:4	(On	e of ceme	ent and four	of sand)	20mm thic	k inc	ludina finis	hina	
	mooth, scaffolding, setting, o										9	
	,		Ö	J	Join proto	ac an oolou	J nio uc	Paramornal	JIIIOC			j
		Т	Т			- 1					- $+$	
	Orain Vent	1 >	1		1,000.00	0.60		600.00	NA2		<b>  </b>	
	ZIGHT VOIL	<u>'''</u>	1		1,000.00	0.00		600.00	tVIT			

#### **ANNEXURE-IX**

## G.O.(MS).No.95, RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS-1) DEPARTMENT, DATED: 14.07.2023

## GUIDELINES FOR INDIVIDUAL AND COMMUNITY SOAK PITS SELECTION PROCEDURE

- Model 1 Individual Household Soak Pit
- Model 2 Common Soak Pit (Can be located at Public Fountains, Hand Pumps, OHTs etc.,)
- Model 3 Horizontal Soak Pit (Suitable at locations where the Ground water table is high)
- Model 4 Vertical Soak Pit (Suitable at locations where the Ground water table is low)
- 1. Priority shall be given to the Village Panchayats selected for the implementation of Anaithu Grama Anna Marumalarchi Thittam-II (AGAMT-II)
- 2. Other than Mission AGAMT-II Villages, priority shall be given to villages where the quantum of liquid waste generated is more and stagnation of grey water is rampant.
- 3. The nature of soil at site chosen should be of permeable nature.
- 4. Rocky stratum should be avoided.
- 5. The soak pits may not be taken up in the flood prone areas or where the groundwater table is high.

## Technical guidelines for the construction of soak pits

#### **Construction Procedure**

The liquid waste management technologies should be environmental friendly, low cost, affordable and manageable at village level. If grey water is managed at source by each household, it becomes a more appropriate solution and after exploring many possibilities, finally it is decided to provide a soak pit in each household. The soak pit proposed not only prevents water stagnation on the streets but also acts as a Water Harvesting Structure.

#### Construction Methodology

In Individual soak pit, the household grey water from the bathroom and the kitchen should be collected through inlet pipe to the inspection chamber where the grey water is screened and the water is then led to the Soak Pit where the water passes through the filter media and soaks to the ground.

In **community soak pit,** the grey water from the public fountain, hand pump, OHT etc., should be collected from the platform and filtered in the inspection chamber to screen the floating material and then led into the soak pit where the water passes through the filter media and soaks to the ground.

## **Individual Soak Pit**

- 1. The grey water from the Kitchen and Bathroom should be collected through inlet pipe to the inspection chamber ensuring proper gradient.
- 2. The Inspection chamber of size 0.45m X 0.45m X 0.45m is constructed so that the debris collected through the inlet pipe along with the sullage water may be allowed to settle and the filtered water will pass through the outlet pipe of the inspection chamber to the soak pit.

- 8. The joints of the pipe, chamber and soak pit should be leak proof.
- 9. Over the top of metal layer at ground level in soak pit, a cement bag sheet shall be placed before filling with earth.
- 10. According to the prevailing Ground Water Table level, either Horizontal filter soak pits or Vertical filter soak pits shall be adopted, wherein the sullage water will be collected from all households in the locality through drainage and let into the soak pit.
- 11. In the case of horizontal filter soak pit, cleansed water from the soak pit can be used for watering the crops.
- 12. As far as Vertical filter soak pits are concerned, it should be strictly ensured that sewage water does not get mixed with sullage collected from the households, as there are possibilities for traces of E-Coli bacteria in sewage water, generally.
- 13. In the case of vertical filter soak pit, cleansed water from the soak pit will be let into the ground for the purpose of recharge of Ground water table. Hence, mixing of sewage water with sullage will lead to Ground water contamination and so, *utmost care and supervision are necessary*.

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## ANNEXURE-X G.O.(Ms).No.95, Rural Development and Panchayat Raj (CGS-1) Department, Dated 14.07.2023 Estimate for Construction of Soak pits for Individual House Holds under Mahatma Gandhi NREGS

Detailed Cum Abstract Estimate

		<del></del>	T				Estimate Rs.	14,000
SI. No	Details of work	No		asurement	s in m	Quantity	Rate per	Amount
	:		L	В	D	-	unit	(in Rs.)
1	Earth work excavation and gravelly soil as per SS20 B	depositing on for foundation	bank with in	itial lead and te	d lift in hard			
а	Upto 0.3m depth							
	Soak pit		1 1.	2 1.:	2 0.3	0.43	3	
	Chamber		1 0.4	5 0.4	5 0.3	0.06	3	
	washing platform		0 1.4	3 1.4	3 0.1		)	
	Platform		1 1.	2 1.2	0.1	0.14	1	
		_	-			0.63	3	
			0.6	3 Cum	at Rs.	280.6	Cum	177
b	From 0.3m - 0.6m depth		T					
	Soak pit		1 1.2	1.2	0.3	0.43		
	Chamber	1	0.45	0.45	0.15	0.03		
_						0.46		
			0.46	Cum	at Rs.	346.39	Cum	159
c .	Above 0.60m depth		<del></del>					
	Soak pit	1	1.2	1.2	1.2	1.73		
$\dashv$						<u>1.73</u>		
4					at Rs.	359.76	Cum	622
2	Cement concret 1:4:8 with 40	mm HBG Me	tal etc. comp	olete				
F	Platform	1	1.2	1.2	0.1	0.14		
	Chamber	1	0.45	0.45	0.1	0.02		
1						0.16		
		0.16425	Cum		at Rs.	4937.75	Cum	811

8	Supply of PVC pipes 75mm dia in pit etc,	cluding neces	sary joints fo	r inspection cha	amber to the soak		
	PVC pipes 75mm dia 4 Ksc	1	8		8		
			8 m	at Rs.	335.81	RM	2686
9	Provision for Nani Trap	1	1		591	No	591
					Sub Total		11601
10	Photo Charges				9		100
11	GST 18%						2088
12	Citizen information Board						90
13	Contingencies and					LS	211
					TOTAL	Rs.	14000

<sup>\*\*</sup> As per G.O.(Ms) No. 124, dated 12.09.2018, it is mentioned that for individual soak pits, one citizen information board shall be provided for one habitation/cluster.

Assuming, 50 soakpits per habitation/cluster are constructed, approximate cost to be included in the estimate will be Rs. 90/-, calculating for one community Citizen Information Board as Rs.4500/-.

## Estimate for Community Soak pit (for Public Fountain, Hand Pump, OHT etc.,) under Mahatma Gandhi NREGS Detailed Cum Abstract Estimate

SI.			Me	asurement	s in m		Estimate Rs.	
No	I Dotaile of work	No	L	В	D	Quantity	Rate per unit	Amoun (in Rs.)
1	Earth work excavation and gravelly soil as per SS20 B	depositing on to	ank with inietc complet	tial lead and e	l lift in hard			
а	Upto 0.3m depth							
	Soak pit	1	1.9	5 1.5	5 0.3	0.68		
	Chamber	1	_		_	0.06	1	
	Platform	1		1	1	0.23		
						0.97	+	
	=		0.97	Cum	at Rs.	280.6	Cum	27
b	From 0.3m - 0.6m depth					_	2	
	Soak pit	1	1.5	1.5	0.3	0.68		
	Chamber	1	0.45		1	0.03		
						0.71		
			0.71	Cum	at Rs.	346.39	Cum	24
С	Above 0.60m depth							
	Soak pit	1	1.5	1.5	1.2	2.7		
						2.7		
			2.7	Cum	at Rs.	359.76	Cum	971
2	Cement concret 1:4:8 with 4	Omm HBG Met	al etc. comp	olete	-			
	Dlatform							
	Platform	1	1.5	1.5	0.1	0.23		
	Chamber	1	0.45	0.45	0.1	0.02		
						0.25		
		0.25	Cum		at Rs.	4937.75	Cum	1234
3	Brick work in cm 1:5 mix using	g country brick	s etc. compl	ete		# 11 		
	Platform Kerb wall	1	5.08	0.115	0.15	0.09		-
	Chamber	1	1.34					
			1.04	0.115	0.35	0.05		
+		0.14 0	·		of Do			
		0.14	,uiti	i	at Rs.	5660.28	um	801

. 8	pit etc,							
	PVC pipes 75mm dia 4 Ksc	1	3		41	3		
			3	m	at Rs.	335.81	RM	1007
9	Provision for Nahini trap	1	1			1.00	no	591
						Sub Total		13171
10	Photo Charges							200
11	GST 18%							2371
12	Citizen information Board							1000
13	Contingencies					in .	LS	258
						TOTAL	Rs.	17000

<sup>\*\*</sup> As per G.O.(Ms) No. 124, dated 12.09.2018, it is mentioned that for individual soak pits, one citizen information board shall be provided for one habitation/cluster.

Assuming, 50 soakpits per habitation/cluster are constructed, approximate cost to be included in the estimate will be Rs. 90/-, calculating for one community Citizen Information Board as Rs.4500/-.

## **ABSTRACT**

SI. No.	Description of Work	Qty	Unit	Rate	Per	Amount
1	Earth work excavation in all clauses of soil with initial lead and lift except hard rock requiring blasting as per SS 20B for foundation etc., complete.				·	
	Earth work 0.00m to 0.30m Depth :-	6.26	cum	280.60	cum	1757
	Earth work 0.30m to 0.60m Depth :-	6.26	cum	346.39	cum	2168
	Earth work 0.60m Above Depth :-	6.37	cum	359.76	cum	2292
2	Cement concrete 1:4:8 mix using 40mm ISS HBG metal including cost and conveyance of all materials and all labour charges etc., complete.	3.07	cum	4937.75	cum	15159
3	Cement concrete 1:2:4 mix using 20mm ISS HBG metal including cost and conveyance of all materials and all labour charges etc., complete.		cum	6310.35	cum	48842
4	Centering charges for all concrete works including cost and conveyance of all materials and all labour charges etc., complete.	47.19	cum	476.50	cum	22486
ا	Brick work in cement mortar 1:5 mix using country bricks 83/4"x4 1/4"x2 3/4" and conveyance of all materials to site and all labour charges etc complete.	0.74	cum	5660.28	cum	4189
6	Plastering with cement mortar 1:5 mix to 12mm thick including cost and conveyance of all materials to site and all labour charges etc complete.	6.55	Sqm	238.59	Sqm	1563
7	Supplying and filling with Filling sand from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standared Specification.	1.50	cum	1716.85	cum	2575
8	Supplying and filling with 20mm metal from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standared Specification.	7.50	cum	1833.65	cum	13752
9	Supplying and filling with Red Gravel from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standared Specification.	1.50	cum	438.80	cum	547
10 0	Supplying and filling with Char coal from an approved quarry including all cost and conveyance materials and all abour charges etc., complete with Standared Specification.	1.50	cum	1000		1500
11 0	Colour washing two coats using with approved colour including cost and conveyance of all materials o site and all labour charges etc complete.	16.83	Sqm	45.82	Sqm	771
12 ji	Supplying and Delivery of 160mm Dia 6Ksc PVC Pipe ncluding cost and conveyance to the site and all abour charges for filling etc., complete.	3.00	m	735.31	m	2206
13 ir	Supplying and Delivery of 63mm Dia 6Ksc PVC Pipe ncluding cost and conveyance to the site and all abour charges for filling etc., complete.	3.00	m	275.60	m	827

## **DETAILED ESTIMATE**

Name of the Work: Construction of Horizontal Soak Pit

lo.	Describtion of work		No	).		Measurements		Contents
					<u> </u>	В	D or H	
1	Earth work excavation in all cla 20B for foundation etc., comple	te.		il with	initial lead and li	ft except hard rock	requiring blast	ing as per S
	Earth work 0.00m to 0.30m	Dept	<u>h :-</u>		1			
	Soak Pit Inspection Chamber :-	1	×	1	4.46	3.46	0.30	4.6
	Chamber Drainage:-	1	X	1	1.23	0.83	0.30	0.3
	Drainage	1	Х	1	3.50	1.26	0.30	1.3 <b>6.2</b>
	Earth work 0.30m to 0.60m	Dept	h :-		1			-
	Soak Pit Inspection Chamber :-	1	x	1	4.46	3.46	0.30	4.6
	Chamber  Drainage:-	1	X	1	1.23	0.83	0.30	0.3
	Drainage	1	X	1	3.50	1.26	0.30	1.3 <b>6.2</b>
ĺ	Earth work 0.60m Above De	pth :	=		,			
	Inspection Chamber :- Soak Pit	1	х	1	4.46	3.46	0.40	6.1
	Chamber	1	X	1	1.23	0.83	0.40	0.2
	Chamber	-	A	_	1,23	0.03	0.20	6.3
	Cement concrete 1:4:8 mix usi labour charges etc., complete.	ng 40	mm	ISS HB	G metal includin	g cost and convey	ance of all mat	erials and a
	Soak pit foundation  Inspection Chamber:-	1	x	1	4.46	3.46	0.15	2.3
	Chamber Drainage:-	1	X	1	1.23	0.83	0.10	0.1
- 1	Drainage	1	X	1	3.50	1.26	0.15	0.6 3.0
$\dashv$	Cement concrete 1:2:4 mix using labour charges etc., complete.	ng 20i	mm	ISS HB	G metal includin	g cost and conveya	ance of all mat	
	induction charges etc., completer							enais anu a
3	Soak pit foundation Soak pit alround	1 1	×		4.46 14.92	3.46 0.23	0.15 1.30	2.31
3	Soak pit foundation							2.33 4.46
3	Soak pit foundation Soak pit alround <b>Drainage:</b>	1	X	1	14.92	0.23	1.30	2.31 4.46 0.97
3	Soak pit foundation Soak pit alround <b>Drainage:</b>	1	X X	2	14.92 3.50	0.23 0.23	0.600	2.31 4.46 0.97
4	Soak pit foundation Soak pit alround Drainage:- Both side Drain wall  Centering charges for all concret complete.  Soak pit inner	1	X X	2	14.92 3.50 cost and conveyo	0.23 0.23	1.30 0.600 s and all labour	2.31 4.46 0.97 7.74 charges etc.
4	Soak pit foundation Soak pit alround <b>Drainage :-</b> Both side Drain wall  Centering charges for all concret complete.	1 1 e worl	X X ks ind	1 2 cluding	3.50 cost and convey	0.23 0.23	1.30 0.600 s and all labour	2.3 4.46 0.9 7.74 charges etc.
4	Soak pit foundation Soak pit alround Drainage:- Both side Drain wall  Centering charges for all concret complete.  Soak pit inner Soak pit outer alround Drainage:-	1 1 e worl	X X ks ind X X	1 2 cluding	14.92 3.50 cost and conveyor 14.00 15.84	0.23 0.23	1.30 0.600 s and all labour 1.30 1.30	2.3: 4.46 0.9: 7.74 charges etc. 18.20 20.59
4 4 6	Soak pit foundation Soak pit alround Drainage:- Both side Drain wall  Centering charges for all concret complete.  Soak pit inner Soak pit outer alround Drainage:-	1 1 1 1 2 i mix u	X X ks ind X X X using	1 2 cluding 1 1 2	14.92 3.50 cost and conveyond 14.00 15.84 3.50	0.23 0.23 ance of all materials	1.30 0.600 5 and all labour 1.30 1.30 0.60	2.31 4.46 0.97 7.74 charges etc. 18.20 20.59 8.40 47.19
4 0 5 5 5	Soak pit foundation Soak pit alround Drainage:- Both side Drain wall  Centering charges for all concret complete.  Soak pit inner Soak pit outer alround Drainage:- Both side Drain wall  Brick work in cement mortar 1:5 site and all labour charges etc co	1 1 2 5 mix tomplete	X X ks inc X X x using e.	cluding  1 1 2 countr	14.92 3.50 cost and conveyor 14.00 15.84 3.50 y bricks 83/4"x4	0.23 0.23 ance of all materials 1/4"x2 3/4" and co	1.30 0.600 s and all labour 1.30 1.30 0.60 onveyance of all	2.31 4.46 0.97 7.74 charges etc. 18.20 20.59 8.40 47.19
5 5	Soak pit foundation Soak pit alround Drainage:- Both side Drain wall  Centering charges for all concret complete.  Soak pit inner Soak pit outer alround Drainage:- Both side Drain wall  Brick work in cement mortar 1:5 site and all labour charges etc co	1 1 1 1 2 i mix u	X X ks ind X X X using	1 2 cluding 1 1 2	14.92 3.50 cost and conveyond 14.00 15.84 3.50	0.23 0.23 ance of all materials	1.30 0.600 5 and all labour 1.30 1.30 0.60	2.31 4.46 0.97 7.74 charges etc. 18.20 20.59 8.40 47.19

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-	•		

						14-			
S		Describtion of work	No.			-	Cantanta		
N	0.					<u> </u>	В	D or H	Contents
1	13	Supply and fixing of MS Weld netc., complete.	nesh i	includ	ing c	ost and conveyan	ce to the site and	d all labour cha	rges for filling
		weld mesh in drain	1	X	10	0.60		0.90	5.40
		Weld mesh in Filter Chamber	1	x	4	3.00		1.00	12.00
$\vdash$	$\dashv$	· · · · · · · · · · · · · · · · · · ·						1	17.40
1	ι4	Supplying and Delivery of 63mr charges for filling etc., complete.	n Dia	6Ksc	PVC	Pipe including co	ost and conveyand	e to the site a	and all labour
		63mm dia 6Ksc PVC Pipe	1	X	1	3.00			3.00
									3.00
1	5	Provision for Conducting Lab	Tect	etc	COD	anlete			
		5 Provision for Conducting Lab. Test etc., complete.,							LS
1	Provision for Citizen Name Board						LS		
1	7	Provision for Photographic charge	25						LS
1	8	Provision for 18% GST							LS
1	9	Contingencies and other unforese	en ite	ms					LS

## **ABSTRACT**

SI. No.	Description of Work	Qty	Unit	Rate	Per	Amount
1	Earth work excavation in all clauses of soil with initial lead and lift except hard rock requiring blasting as per SS 20B for foundation etc., complete.					
	Earth work 0.00m to 0.30m Depth :-	8.86	5 cum	280.60	cum	2486
	Earth work 0.30m to 0.60m Depth :-	8.86	5 cum	346.39	cum	3069
	Earth work 0.60m Above Depth :-	32.87	7 cum	359.76	cum	11825
2	Cement concrete 1:4:8 mix using 40mm ISS HBG metal including cost and conveyance of all materials and all labour charges etc., complete.		cum	4937.75		3753
3	Cement concrete 1:2:4 mix using 20mm ISS HBG metal including cost and conveyance of all materials and all labour charges etc., complete.	0.97	cum	6310.35	cum	6121
4	Centering charges for all concrete works including cost and conveyance of all materials and all labour charges etc., complete.	8.40	cum	476.50	cum	4003
5	Brick work in cement mortar 1:5 mix using country bricks 83/4"x4 1/4"x2 3/4" and conveyance of all materials to site and all labour charges etc complete.	4.62	cum	5660.28	cum	<b>26</b> 122
	Plastering with cement mortar 1:5 mix to 12mm thick including cost and conveyance of all materials to site and all labour charges etc complete.	45.86	Sqm	238.59	Sqm	10942
7	Supplying and filling with 225 mm metal from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standared Specification.	8.91	cum	794.15	cum	7076
8	Supplying and filling with40mm metal from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standared Specification	20.63	cum	1414.45	cum	29180
9	Supplying and filling with 20mm metal from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standared Specification.	1.50	cum	1833.65	cum	2486
10	Supplying and filling with Char coal from an approved quarry including all cost and conveyance materials and all abour charges etc., complete with Standared Specification.	0.11	cum	1000	cum	108
11	Supplying and filling with red Gravel from an approved quarry including all cost and conveyance materials and all abour charges etc., complete with Standared Specification.	0.08	cum	438.8	cum	37
12	Colour washing two coats using with approved colour including cost and conveyance of all materials to site and all labour charges etc complete.	32.53	Sqm	45.82	Sqm	1491
13 i	Supplying and Delivery of 160mm Dia 6Ksc PVC Pipe ncluding cost and conveyance to the site and all abour charges for filling etc., complete.	3.00	m	735.31	m	2206

## **DETAILED ESTIMATE**

Name of the Work: Construction of Vertical Soak Pit

SI.	Describtion of work	1	No			Measurements		Contoni
lo.	Describtion of work	<u> </u>	No	•	L	В	D or H	Content
1	Earth work excavation in all cla 20B for foundation etc., complete		of soi	l with	initial lead and li	ft except hard rock	requiring blast	ing as per
	Earth work 0.00m to 0.30m	Depti	1;:					
	Soak Pit Inspection Chamber :-	1	x	1	4.91	4.91	0.30	7
	Chamber Drainage:-	1	X	1	1.23	0.83	0.30	0.
	Drainage	1	X	1	3.50	1.26	0.30	1. 8.
	Earth work 0.30m to 0.60m	Depti	1:-					
	Soak Pit Inspection Chamber :-	1	x	1	4.91	4.91	0.30	7.
	Chamber Drainage:-	1	X	1	1.23	0.83	0.30	0
	Drainage	1	X	1	3.50	1.26	0.30	8.
	Earth work 0.60m Above De	pth :-	=		,			
	Inspection Chamber :- Soak Pit	1	×	1	4.45	4.45	1.65	32.
	Soak pit free board	1	х	1	18.72	0.30	0.30	
	Chamber	1	x	1	1.23	0.83	0.20	0.: <b>32.</b> :
	labour charges etc., complete.  Soak pit free board Inspection Chamber:- Chamber Drainage:- Drainage	1 1 1	x x x	1 1 1	18.72 1.23 3.50	0.23 0.83 1.26	0.10 0.10 0.15	0. 0. 0.
	or an age			-	3.50	1,20	0.20	٠.
7								0.
3	Cement concrete 1:2:4 mix using labour charges etc., complete.	ng 20r	nm I	SS HB	G metal includin	g cost and convey	ance of all mat	
3		ng 20r	nm I	SS HB	G metal including	g cost and convey	ance of all mat	
		ng 20r	nm I	SS HB	G metal including	g cost and conveyo	ance of all mat	erials and
	Drainage:- Both side Drain wall	1	х	2	3.50	0.23	0.600	0. <b>0.</b> !
4	labour charges etc., complete.  Drainage:-	1	х	2	3.50	0.23	0.600	erials and  0.
4	Drainage:- Both side Drain wall  Centering charges for all concret complete.  Drainage:-	1 re work	X ks inc	2 cluding	3.50 cost and conveyo	0.23	0.600 s and all labour	erials and  0.  charges et
4	Drainage:- Both side Drain wall  Centering charges for all concret complete.	1	х	2	3.50	0.23	0.600	0. O.s. charges et
4	Drainage:- Both side Drain wall  Centering charges for all concret complete.  Drainage:- Both side Drain wall  Brick work in cement mortar 1:5	1 2 o mix u	X ks inc	2 cluding 2	3.50 cost and conveys	0.23 ance of all materials	0.600 s and all labour 0.60	0. Charges et
4	Drainage:- Both side Drain wall  Centering charges for all concret complete.  Drainage:- Both side Drain wall	1 2 o mix u	X ks inc	2 cluding 2	3.50 cost and conveys	0.23 ance of all materials	0.600 s and all labour 0.60	0. 0. charges et
4	Drainage:- Both side Drain wall  Centering charges for all concret complete.  Drainage:- Both side Drain wall  Brick work in cement mortar 1:5 site and all labour charges etc co Soak Pit Free Board  Inspection Chamber:-	1 2 mix upomplete	X  X  xs income  xx  xx	2 countri	3.50 cost and conveyor 3.50 ry bricks 83/4"x4	0.23 ance of all materials 1/4"x2 3/4" and co	0.600 s and all labour 0.60 onveyance of al	0. 0.scharges et 8. 8.assassassassassassassassassassassassass
4	Drainage:- Both side Drain wall  Centering charges for all concret complete.  Drainage:- Both side Drain wall  Brick work in cement mortar 1:5 site and all labour charges etc co	1 2 mix u	X  xs inc  X  using	2 cluding 2 count	3.50 cost and conveys 3.50 ry bricks 83/4"x4	0.23 ance of all materials 1/4"x2 3/4" and co	0.600 s and all labour 0.60 onveyance of al	0. Charges et

SI.	Describtion of work					Contents		
No.			No.		L	В	D or H	Contents
13	Supplying and Delivery of 160 charges for filling etc., complet	mm Dia e.	6Ks	c PVC	Pipe including o	ost and conveyand	e to the site a	ınd all laboui
	160mm dia 6Ksc PVC Pipe	1	X	1	3.00			3.00
								3.00
14	Supply and fixing of MS Weld etc., complete.	mesh ir	nclud	ing co	st and conveyan	ce to the site and	all labour char	
	weld mesh at drain	1	X	10	0.60		0.90	5.40
					·			
	<u> </u>							5.40
15	Supplying and Delivery of 63i charges for filling etc., complet	mm Dia æ.	6Ksc	PVC	Pipe including co	ost and conveyand	e to the site a	and all labou
	63mm dia 6Ksc PVC Pipe	1	X	1	3.00			3.00
		59						3.00
16	Provision for Conducting La	b. Test	t etc.	., con	nplete.,			LS
17	Provision for Citizen Name	Board				e 1		LS
18	Provision for Photographic cha	rges						LS
19	Provision for 18% GST							LS

P.SENTHILKUMAR
PRINCIPAL SECRETARY TO GOVERNMENT

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