



ABSTRACT

Mahatma Gandhi National Rural Employment Guarantee Scheme – Announcement made by Hon'ble Minister (Rural Development) for the year 2021-22 – Construction of 10,000 Check Dams, 2,00,500 Soak Pits, 1,500 Individual Dug Wells and 500 Community Group Wells in Rural areas at a total estimated cost of Rs.922.75 Crore under Mahatma Gandhi National Rural Employment Guarantee Scheme during the financial year 2021-22 – Permission accorded – Orders – Issued.

RURAL DEVELOPMENT AND PANCHAYAT RAJ (CGS.1) DEPARTMENT

G.O.(Ms). No.143

Dated: 07.12.2021

பிலவ, கார்த்திகை 21

திருவள்ளூர் ஆண்டு 2052

Read:

1. Announcement made by Hon'ble Minister for Rural Development on the floor of the Tamil Nadu Legislative Assembly on 24.08.2021.
2. From the Director of Rural Development and Panchayat Raj, Letter No.45325/2021/MGNREGS-I-1, Dated:05.09.2021.

ORDER:

The Hon'ble Minister for Rural Development has made the following Announcement on the floor of the Tamil Nadu Legislative Assembly on 24.08.2021:-

"காலநிலை மாற்றங்களை எதிர்கொள்ளக் கூடிய கிராமங்களை உருவாக்குதல் இன்றைய முக்கிய தேவையாகும். இந்நிலையை அடையும் விதமாக ஊரகப்பகுதிகளில் நிலத்தடிநீரை அதிகரிக்க 68 இலட்சம் மரக்கன்றுகள் நடுதல், 10,000 தடுப்பணைகள் கட்டுதல், வீடுகளிலிருந்து வெளியேறும் கழிவுநீரை தூய்மைப்படுத்தி நிலத்தடியில் செலுத்துவதற்காக 25,500 சமுதாய உறிஞ்சுக்குழிகள், 1,75,000 தனிநபர் உறிஞ்சுக்குழிகள் அமைத்தல் போன்ற பணிகள் 948.50 கோடி ரூபாய் மதிப்பீட்டிலும், நீர்பாசன தேவையை நிறைவேற்றுவதற்காக 500 சமுதாய கிணறுகளும், 1500 தனிநபர்

கிணறுகளும் 200.50 கோடி ரூபாய் மதிப்பீட்டிலுமாக மொத்தம் 1,149 கோடி ரூபாய் மதிப்பீட்டில், நிலத்தடிநீரை அதிகரிக்கும் பணிகளும், நீர்பாசன பணிகளும் 2021-22 ஆம் ஆண்டில் மேற்கொள்ளப்படும். "

2. Based on the above announcement, the Director of Rural Development and Panchayat Raj has sent a proposal stating that, as per the Annual Master Circular 2020-21 of Mahatma Gandhi National Rural Employment Guarantee Act Para 7.3 "Works focusing on Agriculture and Allied Activities" "under the list of Mahatma Gandhi National Rural Employment Guarantee Act works directly linked to Agriculture and allied activities and as per the Schedule-I of Mahatma Gandhi NREGA – 'Sl. No. 1. Category A: Public Works Relating to Natural Resource Management: Water conservation and water harvesting structures to augment and improve groundwater like underground dykes, earthen dams, stop dams, Check Dams with special focus on recharging ground water including drinking water sources;" are permissible under Mahatma Gandhi National Rural Employment Guarantee Scheme. In the restructured list of permissible works issued by the Government of India, for Financial Year 2018-19, the Construction of Cement Concrete Check Dams have been listed in Sl. No.76. As per Para 7.2.1 and 7.9. 'Solid Waste Management (SWM) under MGNREGS', of the Annual Master Circular 2020-21, "Paragraph 4(1) (iv) (i) of Schedule-I of the MGNREGA, provides for rural sanitation works under Rural Infrastructure Category, wherein solid and liquid waste management works (SLWM) may be undertaken amongst other listed works. Accordingly, works like construction of soak pits, village drains for disposal of grey water, stabilization ponds for treatment of grey water may be undertaken under MGNREGS as standalone works." Further, as per restructured list of permissible works communicated by Government of India, Construction of Soak Pits for Individual and Community are one among the permissible works in Sl. No. 224 and 225 respectively, under the category "D" Assets".

3. The Mahatma Gandhi National Employment Guarantee Act "Paragraph 4(1) II Category-B: (i) permits the improving productivity of lands of households specified in Paragraph 5 through land development and by providing suitable infrastructure for irrigation including dug wells, farm ponds and other water harvesting structure. The Construction of Dug Well for Individuals and Community is a permissible activity as per Sl.No.110 and 111 of the list of permissible works under Mahatma Gandhi National Rural Employment Guarantee Act. In the "Permissible Works List" communicated by Ministry of Rural Development, Government of India, the construction of Check Dams, Soak Pits and Dug well are approved under Categories "A – NRM Works" "D – Rural Infrastructure" and "A & B– NRM works and Individual assets for vulnerable sections" respectively.

4. Therefore, the Director of Rural Development and Panchayat Raj, has proposed to undertake construction of 10,000 Check Dams in rural areas at a cost of Rs.497.00 Crore, construction of 2,00,500 Soak Pits in rural areas at a cost of Rs.228.10 Crore and construction of 500 Community Group wells and 1500 Individual Dug wells in rural areas at a cost of Rs.197.65 Crore during the financial year 2021-22

under Mahatma Gandhi National Rural Employment Guarantee Scheme will be taken up at a total cost of Rs.922.75 Crore.

5. The Director of Rural Development and Panchayat Raj has stated that the above works were approved by the Empowered Committee, Ministry of Rural Development, Government of India during the Empowered committee Meeting held on 12.02.2021. The Guidelines for Planning, selection and execution of above works during the year 2021-22 shall be followed as per the G.Os mentioned below:-

Sl. No.	Name of the Work	Guidelines G.O.
1	10,000 Check Dams	G.O.(Ms).No.419, Rural Development and Panchayat Raj (CGS.1) Department, dated:26.10.2018.
2	2,00,500 Soak Pits (25,500 Community Soak Pits + 1,75,000 Individual Soak Pits)	G.O.(Ms).No.124, Rural Development and Panchayat Raj (CGS.1) Department, Dated:12.09.2018.
3	2000 Dug Wells (1500 Individual Dug Wells + 500 Community Group Wells)	G.O.(Ms).No.157, Rural Development and Panchayat Raj (CGS.1) Department, Dated:29.10.2019.

The Government of India have notified the wage rate for the financial year 2021-22 as Rs.273/- per day in respect of Tamil Nadu.

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:k11023/1/1/2017 – MGNREGA (IV), MORD, Dated:07.04.2017. The cost of Citizen information Board will be fixed at Rs.4,500/- per unit for all community works and assets. For Individual Dug Wells, the Citizen Information Board with wall writing shall be painted on the wall and the cost of Citizen Information Board will be fixed at Rs.1000/- per unit. 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) The Notified Wage Rate as per G.O. (Ms).No.60, Rural Development and Panchayat Raj (CGS.1) Department, Dated:15.04.2021 and the Rural Schedule of Rates finalised in G.O. (Ms).No.74, Rural Development and Panchayat Raj (CGS.1) Department, Dated:07.06.2021 shall be adopted. In case of any revision made in Rural Schedule of Rates in future, the same shall be adopted.

6. The Director of Rural Development and Panchayat Raj has further stated that, in addition to the above said guidelines, the following shall also be adhered during the execution of works;

- Resolution should be obtained for in the Gram Sabha for all the selected works and it should be entered work wise in Register No.2 of Mahatma Gandhi National Rural Employment Guarantee Act of village panchayats concerned.
- Based on the site conditions and hydrological conditions, for ensuring stability in the cement concrete Check dams, steel reinforcement in Body wall, Abutment, Wing wall and Apron portion shall be provided so as to avoid structural failure.

Funding Pattern

The Labour cost is borne 100% by the Government of India and the material cost is shared at the ratio of 75:25 by the Government of India and the State Government.

Construction of 10,000 Check Dams

Construction of 10,000 Cement Concrete Check Dams at a total estimated cost of Rs.497.00 Crore during the year 2021-22 under Mahatma Gandhi National Rural Employment Guarantee Scheme out of which the Labour Component is Rs.54.82 Crore and Material Component is Rs.442.18 Crore with Labour Material ratio of 11.03:88.97.

(Rupees in Crore)

Description	Material Component (88.97%)			Labour Component (11.03%) (Central Share 100%)	Total
	Central Share (75%)	State Share (25%)	Total		
Cost of construction of 10,000 Cement Concrete Check dams 10,000 No's x Rs.4.97 Lakh = Rs.49700.00 Lakh (Rs.497.00 Crore)	331.64	110.54	442.18	54.82	497.00

Construction of 2,00,500 Soak Pits

The Labour and Material component details for construction of 1.75 Lakh No's of individual Household soak pits, 25,000 No's of Community Soak Pits (Type1) and

500 No's of community cluster soak pits (Type 2 - Horizontal filter - 100 No's and Type 3 - Vertical filter - 400 No's) are as below:-

(Rupees in Crore)

Sl. No	Description	Nos.	Unit Cost (in Rs.)	Total Cost (Rs. in Crore)	Labour Component (Rs. in Crore)	Material Component (Rs. in Crore)	Labour & Material Ratio
1	Individual Household Soak Pit	1,75,000	10800	189.00	28.67	160.33	15.17:84.83
2	Community Soak pit Type 1	25,000	13000	32.50	5.46	27.04	16.80:83.20
3	Community(Cluster/Habitation)Type 2 (Horizontal Filter)	100	1,40,000	1.40	0.11	1.29	8.19:91.81
4	Community(Cluster/Habitation)Type 3 (Vertical Filter)	400	1,30,000	5.20	0.78	4.42	14.91:85.09
Total		2,00,500		228.10	35.02	193.08	15.35:84.65

Digging of 1500 Individual Dug Wells and 500 Community Group Wells

The labour and material component details for construction of Individual well and Community well are as below:-

(Rupees in Crore)

Description	Material Component			Labour Component (Central Share 100%)	Grand Total	Labour Material Ratio
	Central Share (75%)	State Share (25%)	Total			
Cost of construction of Individual Dug Wells is Rs.8.58 lakh. The cost of construction of 1,500 Nos of Individual Dug Wells = $1,500 \times 8.58 = \text{Rs.}128.70$ crore	90.80	30.26	121.06	7.64	128.70	5.94:94.06
Cost of construction of Community well/Group Wells is Rs.13.79 lakh. The cost of construction of 500 Nos of Community Group Wells = $500 \times 13.79 = \text{Rs.}68.95$ crore	47.95	15.98	63.93	5.02	68.95	7.28:92.72
Total	138.75	46.24	184.99	12.66	197.65	

The Unit cost for the above works are tabulated based on the Standard Type design and Rural Schedule of Rate (RSOR) 2021-22. However, the actual estimate may

vary according to the site condition and issue of Public Works Department (PWD) Schedule of Rate.

S. No.	Name of the Scheme	Total No. of works taken up	Allocation Amount (Rs. in crore)
01.	Construction of Check Dams	10,000	497.00
02.	Construction of Soak Pits	2,00,500	228.10
03.	Digging of 1500 Individual Dug Wells and 500 Community Group	2,000	197.65
			922.75

7. The Director of Rural Development and Panchayat Raj has therefore requested the Government to accord permission for construction of 10,000 Check Dams, 2,00,500 Soak Pits, 1,500 Individual Dug Wells and 500 Community Group Wells in Rural areas at a total estimated cost of Rs.922.75 Crore under Mahatma Gandhi National Rural Employment Guarantee Scheme during the financial year 2021-22.

8. The Government, after careful examination, have decided to accept the proposal of Director of Rural Development and Panchayat Raj and accord permission for construction of 10,000 Check Dams, 2,00,500 Soak Pits, 1,500 Individual Dug Wells and 500 Community Group Wells in Rural areas at a total estimated cost of Rs.922.75 Crore (Rupees Nine Hundred and Twenty Two Crore Seventy Five lakhs only) under Mahatma Gandhi National Rural Employment Guarantee Scheme during the financial year 2021-22, subject to the condition that the Financial Sanction shall be made only after receipt of Government of India share and the expenditure should be accommodated within the Annual Action Plan.

9. The Model Estimate for construction of Check Dams, Soak Pits, Individual Dug Wells and Community Group Wells are annexed from I to VII to this order.

10. This order is issued with the concurrence of Finance Department vide its U.O.No.54913/RD/2021, dated 03.12.2021.

(BY ORDER OF THE GOVERNOR)

**P. AMUDHA,
PRINCIPAL SECRETARY TO GOVERNMENT**

To
The Director of Rural Development and Panchayat Raj, Chennai-15.
All District Collectors (except Chennai District).
(through the DRD &PR, Chennai-15)

All Project Directors, District Rural Development Agencies
(through the DRD & PR, Chennai-15).

The Accountant General, Chennai-18.

Copy to:

The Pay and Accounts Officer (South), Chennai-35.

The Finance (RD) Department, Chennai-9.

The Chief Minister's Office, Secretariat, Chennai-9.

The Senior Personal Assistant to Hon'ble Minister (Rural Development),
Chennai-9.

The Principal Private Secretary to Principal Secretary to
Government, Rural Development and Panchayat Raj
Department, Chennai-9.

The National Informatics Centre, Secretariat, Chennai-9.
Stock file / Spare copy.

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Annexure - I

G.O.(Ms). No.143, Rural Development and Panchayat Raj (CGS.1) Department, dated 07.12.2021.

Model Estimate for Construction of Cement Concrete Checkdam under Mahatma Gandhi NREGS during 2021-22



Detailed Cum Abstract Estimate

S.No	Description	Estimate Amount						Qty	Amount (In Rs.)
		Rs. 497000							
1	Earth work Excavation for Foundation in all soils and Sub Soil to full depth as may be directed except in hard rock requiring blasting but inclusive of shoring strutting and requiring the sides of foundation.								
	Foundation First Depth								
	Body wall	1	x	2	3.00	1.50	0.30	2.70	
	Abutment	1	x	1	4.60	1.60	0.30	2.21	
	Wing wall(D/S)	1	x	2	6.20	1.40	0.30	5.21	
	Wing wall(U/S)	1	X	2	1.50	1.45	0.30	1.31	
	Apron end Core wall	2	x	1	4.80	0.60	0.30	1.73	
	Apron D/S	1	x	1	3.35	4.80	0.30	4.82	
	Rough Stone Packing	1	x	1	2.50	4.80	0.30	3.60	
	Trench for clay filling	1	x	1	4.80	1.30	0.30	1.87	
					Rs	260.56		23.45	6109
	Foundation Second Depth								
	Body wall	1	x	2	3.00	1.50	0.30	2.70	
	Abutment	1	x	1	4.60	1.60	0.30	2.21	
	Wing wall(D/S)	1	x	2	6.20	1.40	0.30	5.21	
	Wing wall(U/S)	1	x	2	1.50	1.45	0.30	1.31	
	Apron end Core wall	2	x	1	4.80	0.60	0.20	1.15	
	Apron D/s	1	x	1	3.55	5.90	0.30	6.28	
	Trench for clay filling	1	x	1	4.80	1.05	0.10	0.50	
					Rs	321.64		19.36	6227
	Foundation Third Depth								
	Body wall	1	x	2	3.00	1.50	0.40	3.60	
	Abutment	1	x	1	4.60	1.60	0.50	3.68	
	Wing wall(D/S)	1	x	2	6.20	1.40	0.50	8.68	
	Wing wall(U/S)	1	x	2	1.50	1.45	0.50	2.18	
	Apron end Core wall	1	x	1	4.80	0.60	0.20	0.58	
					Rs	334.06		18.71	6251

S.No	Description	Nos			L (m)	B (m)	D (m)	Qty	Amount (In Rs.)
9	Supplying and Fabricating and placing in position MS steel or ribbed for steel for all reinforced cement concrete works as per the design given including cost of steel and binding wire in all floors etc, Complete complying with standard specification.								
	Surface Reinforcement for Bodywall 8mm dia @150 spacing bothways	1	x	1	0.09	MT	68875.45	Rs.	6199
	For Apron	1	x	1	0.12	MT	68875.45	Rs.	7921
	For Abutment ,Wingwall	1	x	1	0.15	MT	68875.45	Rs.	10331
10	Provision for Citizen Information Board							Ls	4500
11	Provision for Photographic Charges							Ls	1000
12	Provision for GST (12%)							Ls	48155
13	Provision for Escalation Cost (7%)							Ls	28090
14	Contingencies & other unforeseen item							Ls	878
								Total	497000

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ANNEXURE-II

G.O.(Ms). No.143, Rural Development and Panchayat Raj (CGS.1) Department, dated 07.12.2021.
Model Estimate for Construction of Soak pits(for Individual House Holds) under Mahatma Gandhi NREGS
during 2021-22

Detailed Cum Abstract Estimate

Estimate Rs. 10,800

Sl. No	Details of work	No	Measurements in m			Quantity	Rate per unit	Amount (in Rs.)
			L	B	D			
1	Earth work excavation and depositing on bank with initial lead and lift in hard gravelly soil as per SS20 B for foundation etc complete							
a	Upto 0.3m depth							
	Soak pit	1	1.2	1.2	0.3	0.43		
	Chamber	1	0.45	0.45	0.3	0.06		
	Platform	1	1.5	1.5	0.1	0.23		
						0.49		
			0.49	Cum	at Rs.	260.56	Cum	128
b	From 0.3m - 0.6m depth							
	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.	321.64	Cum	148
c	Above 0.60m depth							
	Soak pit	1	1.2	1.2	1.2	1.73		
						1.73		
			1.73	Cum	at Rs.	334.06	Cum	578
2	Cement concret 1:4:8 with 40mm HBG Metal etc. complete							
	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.	4123.59	Cum	1031
3	Brick work in cm 1:5 mix using country bricks etc. complete							

	Platform Kerb wall	1	5.73	0.115	0.075	0.05		
	Chamber	1	1.48	0.115	0.35	0.06		
						0.11		
		0.11	Cum		at Rs.	4948.44	Cum	544
4	Filling the Soak pit with following materials as per specification							
a	225mm metal/Boulders	1	1.2	1.2	0.45	0.65		
						0.65		
			0.65	Cum	at Rs.	686.05	Cum	446
b	65 mm/63mm metal	1	1.2	1.2	0.45	0.65		
						0.65		
			0.65	Cum	at Rs.	864.05	Cum	562
c	20 mm metal	1	1.2	1.2	0.9	1.3		
	Deduct cement tank	-0.786	0.6	0.6	0.9	-0.25		
						1.05		
			1.05	Cum	at Rs.	1706.05	Cum	1791
5	Supply of 0.60m dia cement tank with top cover including cost etc							
	Cement tank	1				1 No		
							1 No	at Rs.
							1200	No
								1200
6	Filling of metal aggregate, in the soak pit including the labour charges etc., complete							
	unskilled labour	1				1 No		
							1 No	at Rs.
							273	No
								273
7	Plastering with cement mortar 1:5 mix to 12mm thick including including the cost and conveyance etc complete							
	Platform	1	1.5	1.5		2.25		
	Kerb wall alround	1	5.73		0.15	0.8595		
	Chamber	1	0.45	0.45		0.2025		
		1	1.8	0.35		0.63		
						3.94		
			3.94		at Rs.	192.10	No	757

8	Supply of PVC pipes 50mm dia including necessary joints for inspection chamber to the soak pit etc.,						
	PVC pipes 50mm dia 4 Ksc	1	5			5	
			5 m	at Rs.	55.10	RM	276
9	Supplying and fixing PVC Rain water down fall pipes of following dia meter etc., cor						
	110mm dia PVC Rain water downfall Pipe	1	3			3	
			3 m	at Rs.	476.71	RM	1430
10	Photo Charges						100
11	GST 12%						964
12	Escalation charges 7%						563
13	Contingencies and Citizen information Board					LS	9
					TOTAL	Rs.	10800

** 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/-.

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			0.23	m3 @ Rs.	4123.59	/m3		949
4	Brickwork in CM 1:5 mix using II class bricks of size 23 x 11.5 x 7.5 cm for the following including curing etc., complete as per standard specifications							
	Platform alround	1	X	1	5.73	0.115	0.075	0.05
								0.05
			0.05	m3 @ Rs.	4948.44	/m3		248
5	Plastering with cement mortar 1:5 mix to 12 mm thick including cost and conveyance of all materials to site and all labour charges etc., complete as per standard specifications							
	Platform side wall 2 sides	1	X	2	5.73		0.075	0.86
	Platform top	1	X	1	1.5	1.5		2.25
								3.11
			3.11	m3 @ Rs.	192.10	/m3		598
6	Supply of 0.60m dia cement tank with top cover including cost etc., complete as per standard specifications							
	Cement tank						1 no	
			1	No	@	1200.00	No	1200
7	Supply of 0.45m x 0.45m x 0.45m size cement tank with cost etc., complete as per standard specifications							
	Cement tank						1 no	
			1	No	@	500.00	No	500
8	Supply of PVC pipes 50mm dia as per standard specifications							
	PVC pipes 50 mm dia 4 Ksc						10 no	
			10	No	@	55.10	No	551
9	Towards labour charges for filling metal into the pipe and fixing PVC pipe							
							LS	273
10	Citizen Information Board							
								500
11	Photo Charges							
								100
12	GST 12%							
								1036
13	Escalation charges 7%							
								738
14	Contingencies							
								333
							Rs.	13000

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ANNEXURE-IV

G.O.(Ms). No.143, Rural Development and Panchayat Raj (CGS.1) Department, dated 07.12.2021.

Model Estimate for Construction of Community Soak Pit - Type 2 (Horizontal Filter) under Mahatma Gandhi NREGS during 2021-22**ABSTRACT ESTIMATE**

Sl. No.	Description of Work	Estimate Amount			Rs. 140,000	
		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 as per standard specifications					
	Earth work 0.00m to 0.30m Depth :-	6.00	cum	260.56	cum	1563
	Earth work 0.30m to 0.60m Depth :-	3.68	cum	321.64	cum	1184
	Earth work 0.60m Above Depth :-	0.79	cum	334.06	cum	264
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 as per standard specifications	5.31	cum	4123.59	cum	21896
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 as per standard specifications	7.31	cum	5432.85	cum	39714
4	Centering charges for all concrete works including cost and conveyance of all materials and all labour charges etc., complete as per standard specifications	42.81	cum	376.00	cum	16097
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 as per standard specifications	0.78	cum	4948.44	cum	3860
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 as per standard specifications	4.53	Sqm	192.10	Sqm	870
7	Supplying and filling with Filling sand from an approved quarry including all cost and conveyance materials and all labour charges etc., complete as per standard specifications	1.50	cum	891.00	cum	1337
8	Supplying and filling with 40mm metal from an approved quarry including all cost and conveyance materials and all labour charges etc., complete as per standard specifications	7.50	cum	1312.05	cum	9840
9	Supplying and filling with Red Gravel from an approved quarry including all cost and conveyance materials and all labour charges etc., complete as per standard specifications	1.50	cum	403.00	cum	605
10	Exterior Emulsion Paint two coats using with approved colour including cost and conveyance of all materials to site and all labour charges etc complete.	42.55	Sqm	190.55	Sqm	8108

Sl. No.	Description of Work	Qty	Unit	Rate	Per	Amount
11	Supplying and Delivery of 180mm Dia 6Ksc PVC Pipe including cost and conveyance to the site and all labour charges for filling etc., complete as per standard specifications	2.45	m	489.00	m	1198
12	Supplying and Delivery of 63mm Dia 4Ksc PVC Pipe including cost and conveyance to the site and all labour charges for filling etc., complete as per standard specifications	6.40	m	79.80	m	511
13	Supplying and filling with Charcoal including all cost and conveyance materials and all labour charges etc., complete as per standard specifications		LS	200.00	LS	1000
14	Supply and fixing of MS Weld mesh including cost and conveyance to the site and all labour charges for filling etc., complete as per standard specifications		LS		LS	500
15	Provision for Conducting Lab. Test etc., complete.,				LS	5500
16	Provision for Citizen Information Board					4500
17	Provision for 12% GST				LS	13324
18	Provision for Escalation Charges 7%				LS	7773
19	Provision for Photographic charges				LS	300
20	Contingencies and other unforeseen items				LS	56
	TOTAL				Rs.	140000

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ANNEXURE-V


G.O.(Ms). No.143, Rural Development and Panchayat Raj (CGS.1) Department, dated 07.12.2021.

Model Estimate for Construction of Community Soak Pit - Type 3 (Vertical Filter) under Mahatma Gandhi NREGS during 2021-22						
ABSTRACT ESTIMATE						
			Estimate Amount			130,000
Sl. No.	Description of Work	Qty	Unit	Rate	Per	Amount (In Rs.)
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 :-	6.36	cum	260.56	cum	1657
	Earth work 0.30m to 0.60m Depth :-	6.36	cum	321.64	cum	2046
	Earth work 0.60m Above Depth :-	33.51	cum	334.06	cum	11194
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.	1.40	cum	4123.59	cum	5773
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.	0.14	cum	5432.85	cum	761
4	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.	2.10	cum	4948.44	cum	10392
5	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.	23.50	Sqm	192.10	Sqm	4514
6	Supplying and filling with Rough Stone to a Height of 0.75m from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standard Specification.	8.91	cum	745.05	cum	6638
7	Supplying and filling with 40mm metal from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standard Specification.	20.74	cum	1312.1	cum	27212
8	Supplying and filling with 20mm metal from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standard Specification.	14.45	cum	1706.1	cum	24652
9	Supplying and filling with Char coal including all cost and conveyance materials and all labour charges etc., complete with Standard Specification.	0.19	cum	200	cum	38
10	Supplying and filling with 20mm Brick Jally from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standard Specification.	0.19	cum	881.60	cum	168
11	Supplying and filling with Red Gravel from an approved quarry including all cost and conveyance materials and all labour charges etc., complete with Standard Specification.	0.19	cum	403.00	cum	77

12	Exterior Emulsion Paint two coats using with approved colour including cost and conveyance of all materials to site and all labour charges etc complete.	15.54	Sqm	190.55	Sqm	2961
13	Supplying and Delivery of 180mm Dia 6Ksc PVC Pipe including cost and conveyance to the site and all labour charges for filling etc., complete.	5	m	489.00	m	2445
14	Supplying and Delivery of 1.00m Dia ring to a thick 0.05m including cost and conveyance to the site and all labour charges for fixing charges etc., complete.				LS	2000
15	Provision for Lab Test etc., complete.,				LS	5500
16	Provision for Citizen Information Board					4500
17	Provision for GST 12%				LS	10820
18	Provision for Escalation Cost 7%				LS	6312
19	Provision for Photographic charges				LS	300
20	Contingencies and other unforeseen items				LS	40
	TOTAL				Rs.	130000

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ANNEXURE - VI
G.O.(Ms). No.143, Rural Development and Panchayat Raj (CGS.1) Department, dated 07.12.2021.
Model Estimate for Construction of Dug Well(Individual) under Mahatma Gandhi NREGS
Detailed Cum Abstract Estimate during 2021-22

Estimate Amount: Rs. 858,000

SI no	Details of work			Measurement			Content	Amount
				NO	L	B		
1. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in Hard Soil not requiring Blasting.								
	First Depth 0-2m							
	First Depth 0-30m	0.79	6	6	0.3	8.532		
		8.532	cum @ RS	260.56	/cum			2223
	First Depth 0.30-0.60m	0.79	6	6	0.3	8.532		
		8.532	cum @ RS	321.64	/cum			2744
	First Depth 0-60-2.00m	0.79	6	6	1.4	39.816		
		39.816	cum @ RS	334.06	/cum			13301
2. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in SDR not requiring Blasting.								
	Second Depth 2.00-4.00							
	Second Depth 2.00-3.00	0.79	4	4	1	12.64		
	(499.99+15.5) = 515.49	12.64	cum @ RS	515.49	/cum			6516
	Second Depth 3.00-4.00	0.79	4	4	1	12.64		
	(499.99+30.8) = 530.79	12.64	cum @ RS	530.79	/cum			6709
	PWD Rate - 2018-19							
3. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.								
	Third Depth 4-6m	0.79	4	4	2	25.28		
		25.28	cum @ RS	623.40	/cum			15760
4. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.								
	Fourth Depth 6-8m	0.79	4	4	2	25.28		
		25.28	cum @ RS	831.20	/cum			21013
5. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.								
	Fifth Depth 8-10m	0.79	4	4	2	25.28		
		25.28	cum @ RS	1039.00	/cum			26266
6. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.								
	Sixth Depth 10-12.00	0.79	4	4	2	25.28		
		25.28	cum @ RS	1246.80	/cum			31519

7. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.							
12.00-14.00			0.79	4	4	2	25.28
			25.28	cum @ RS	1662.40	/cum	42025
8. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.							
14.00-16.00			0.79	4	4	2	25.28
			25.28	cum @ RS	2078.00	/cum	52532
9. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock requiring Blasting.							
16.00-18.00			0.79	4	4	2	25.28
			25.28	cum @ RS	3739.20	/cum	94527
10. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in hard rock requiring blasting.							
18.00-20.00			0.79	4	4	2	25.28
			25.28	cum @ RS	8533.00	/cum	215714
Steining Wall							
11. Centering for RCC Ring Beam - Towards centering charges inclusive of all material and labour charges etc., complete as per standard specification.							
Inner 4.00 m dia			1	12.56		0.3	3.77
Outer 6.00 m dia			1	18.84		0.3	5.65
							9.42
			9.42	sqm @ RS	376.00	/sqm	3542
12. RCC Ring Beam - Reinforced Cement concrete 1:11/2:3 mix using 20mm HBG metal for foundation and basement etc. complete as per standard specification.							
			1	15.7	0.9	0.3	4.239
			4.24	cum @ RS	7233.41	/cum	30662
13. Fabrication of steel for Ring Beam - Supplying and fabrication of steel including cost and conveyance of steel to site and all labour charges for straightening, cutting to length, bending to shape and tying in position and forming grills for all R.C.C works as per standard specification.							
			0.5	MT @ RS	68875.45	/MT	34438
14. RR Masonry in CM 1:4 for steining wall & Parapet wall including cost and conveyance of material and all other labour charges etc., complete as per standard specifications							
Steining wall-1.00m base width and 0.45m top width bottom C/L 5.00m top C/L 4.45m			1	14.85	0.725	1	10.76625
			1	14.85	0.6	0.7	6.237
Parapet wall	4.45m C/L		1	13.97	0.34	1	4.7498
							21.75
			21.75	cum @ RS	4479.74	/cum	97448

15. Plastering with cement mortar 1:4 mix 20mm thickness including cost and conveyance of material and all other labour charges etc., complete as per standard specifications								
Parapet wall-Top		1	13.97	0.34	0	4.7498		
		4.7498	sqm @ RS	393.74	/sqm		1870	
Platform Construction								
16. Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in Hard Soil not requiring Blasting.								
First Depth								
30m		0.79	6.67	0.3	0.3	0.474237		
		0.47424	cum @ RS	260.56	/cum	0.474237	124	
17. Supplying and filling of good river sand including cost and conveyance of to site and all labour charges etc., complete as per standard specifications								
Plat Form		0.79	5.67	0.77	0.1	0.344906		
		0.34491	cum @ RS	891.00	/cum	0.344906	307	
18. PCC 1:4:8 mix using 40mm ISS HBG Metal including cost and conveyance of to site and all labour charges etc., complete as per standard specifications								
alround		0.79	6.67	0.3	0.1	0.079		
Plat Form		0.79	5.67	0.77	0.1	0.079		
		0.158	cum @ RS	4123.59	/cum	0.158	652	
19. Brick work Cm 1:5 mix using country bricks of size 83/4x 43/8 x23/4 including cost and conveyance of to site and all labour charges etc., complete as per standard specifications								
alround		0.79	6.67	0.23	0.4	0.484776		
		0.48478	cum @ RS	5007.64	/cum	0.484776	2428	
20. PCC 1:2:4 mix using 20mm ISS HBG Metal including cost and conveyance of to site and all labour charges etc., complete as per standard specifications								
Plat Form		0.79	6.9	1	0.075	0.408825		
		0.40883	cum @ RS	5432.85	/Sqm	0.408825	2221	
21. Plastering with cement mortar 1:5 mix 12mm thickness including cost and conveyance of material and all other labour charges etc., complete as per standard specifications								
Kerb wall side		0.79	6.9	0.45		2.45295		
		2.45295	sqm @ RS	192.10	/sqm	2.45295	471	
22. Charges for Bailing out water							LS	5000
23. Provision for geophysical investigation charges							LS	3000
24. Provision for Name board								1000
Sub Total Rs.							714012	
25. GST 12%								85918
26. Escalation for SoR-7%								56133
27. Provision for Photo charges							LS	500
28. P.S Charges and contingencies etc.,							LS	1437
Total Estimate Amount Rs.							858000	

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ANNEXURE-VII

G.O.(Ms) No.143, Rural Development and Panchayat Raj (CGS.1) Department, dated 07.12.2021

Model Estimate for Construction of Dug Well (Group well) under Mahatma Gandhi NREGS during 2021-22								
DETAILED CUM ABSTRACT ESTIMATE								
Estimate Amount: Rs.							1,379,000	
SI.No	Details of work		Nos	Measurement			Qty	Amount (In Rs.)
1	2	3	L	B	D	7	8	
4	5	6	7	8	9	10	11	
1	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in Hard gravelly Soil							
	First Depth 0-2m							
	I st Depth 0-0.30m		0.785	7	7	0.3	11.54	
			11.54	cum @ RS	260.56	/cum		3006.73
	I st Depth 0.30-0.60m		0.785	7	7	0.3	11.54	
			11.5395	cum @ RS	321.64	/cum		3711.56
	I st Depth 0-60-2.00m		0.785	7	7	1.4	53.851	
			53.851	cum @ RS	334.06	/cum		17989.46
	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in SDR not requiring Blasting.							
	Second Depth 2.00-4.00							
	II nd Depth 2.00-3.00		0.785	7	7	1	38.465	
	(499.99+15.5) = 515.49		38.465	cum @ RS	515.49	/cum		19828.32
	II nd Depth 3.00-4.00		0.785	7	7	1	38.465	
	(499.99+30.8) = 530.79		38.465	cum @ RS	530.79	/cum		20416.83
	PWD Rate - 2017-18							
	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.							
	III rd Depth 4.00-6.00		0.785	5	5	2	39.25	
			39.25	cum @ RS	623.40	/cum		24468.45
	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.							
	IVth Depth 6.00-8.00		0.785	5	5	2	39.25	
			39.25	cum @ RS	831.20	/cum		32624.6

	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.							
5	V th Depth 8.00-10.00			0.785	5	5	2	39.25
				39.25	cum @ RS	1039.00	/cum	40780.75
	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.							
6	VI th Depth 10.00-12.00			0.785	5	5	2	39.25
				39.25	cum @ RS	1246.80	/cum	48936.9
	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.							
7	VIII th Depth 12.00-14.00			0.785	5	5	2	39.25
				39.25	cum @ RS	1662.40	/cum	65249.2
	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock not requiring Blasting.							
8	X th Depth 14.00-16.00			0.785	5	5	2	39.25
				39.25	cum @ RS	2078.00	/cum	81561.5
	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in medium rock and dense medium rock requiring Blasting.							
9	XII th Depth 16.00-18.00			0.785	5	5	2	39.25
	(271x9th Depth)			39.25	cum @ RS	3739.20	/cum	146763.6
	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in hard rock requiring blasting.							
10	XIV th Depth 18.00-20.00			0.785	5	5	2	39.25
	(530x10th Depth)			39.25	cum @ RS	8533.00	/cum	334920.25
11	CC 1:4:8 mix using 40mm ISS HBG Metal including cost and conveyance of to site and all labour charges etc., complete as per standard specifications							
	C/L (6.50m Dia)			1	20.41	1	0.15	3.0615
				3.0615	cum @ RS	4123.59	/cum	8981
12	Centering for RCC Ring Beam - Towards centering charges inclusive of all material and labour charges etc., complete as per standard specification.							
13	Inner 5.0 m dia			1	15.7		0.3	4.71

	Outer 7.0 m dia		1	21.98		0.3	6.594	
							11.304	
			11.304	sqm @ RS	376.00	/sqm		4250.304
14	RCC Ring Beam - Reinforced Cement concrete 1:11/2:3 mix using 20mm HBG metal for foundation and basement etc. complete as per standard specification.							
	C/L (6.50m Dia)		1	18.84	0.9	0.3	5.0868	
			5.0868	cum @ RS	7233.41	/cum		36794.91
15	Fabrication of steel for Ring Beam - Supplying and fabrication of steel including cost and conveyance of steel to site and all labour charges for straightening, cutting to length, bending to shape and tying in position and forming grills for all R.C.C works as per standard specification.							
			0.745	MT @ RS	68875.45	/MT		51312.21
16	RR Masonry in CM 1:4 for steining wall & Parapet wall including cost and conveyance of material and all other labour charges etc., complete as per standard specifications							
			1	19.154	0.725	1	13.89	
	Steining wall-1.00m base width and 0.45m top width bottom C/L 6.50m top C/L 5.95m (Average 6.23 dia)		1	19.15	0.6	0.7	8.04	
	Parapet wall	5.95m C/L	1	17.427	0.45	3	23.53	
							45.46	
			45.46	cum @ RS	4479.74	/cum		203631.5
17	Plastering with cement mortar 1:4 mix 20mm thickness including cost and conveyance of material and all other labour charges etc., complete							
	Parapet -Top (C/L 5.95m dia)		1	18.68	0.45	0	8.406	
			8.406	sqm @ RS	393.74	/sqm		3309.77844
18	Earth work open well excavation complying with relevant classes of T.N.D.S.S well sinking and with lead upto 10m in Hard Soil not requiring Blasting.							
	First Depth							
	First Depth 0-30m		0.785	8.17	0.3	0.3	0.5772	
	(6.40+1.00+1.00-0.23 = 8.17)						0.5772	
			0.57721	cum @ RS	260.56	/cum		150.39
19	Supplying and filling of good river sand including cost and conveyance to site and all labour charges etc., complete							
	Plat Form		0.785	7.17	0.77	0.1	0.4334	
	(6.40+0.77=7.17)						0.4334	
			0.43339	cum @ RS	891.00	/cum		242
20	PCC 1:4:8 mix using 40mm ISS HBG Metal including cost and conveyance of to site and all labour charges etc., complete							
	Kerb wall around		0.785	8.17	0.3	0.1	0.1924	
	Plat Form		0.785	7.17	0.77	0.1	0.4334	

								0.62		
			0.62	cum @ RS	4123.59	/cum			2556.62	
21	Brick work Cm 1:5 mix using country bricks of size 83/4x 43/8 x23/4 including cost and conveyance of to site and all labour charges etc., complete									
	Kerb wall alround		0.785	8.17	0.23	0.4	0.59			
							0.59			
			0.59004	cum @ RS	5007.64	/cum			2954.69	
22	PCC 1:2:4 mix using 20mm ISS HBG Metal including cost and conveyance of to site and all labour charges etc., complete									
	Plat Form		0.785	7.4	1	0.075	0.44			
	(6.40+1.00=7.40m)						0.44			
			0.44	cum @ RS	5432.85	/Sqm			1775	
23	Plastering with cement mortor 1:5 mix 12mm thickness including cost and conveyance of material and all other labour charges etc., complete									
	Kerb wall side		0.785	8.4	0.45		2.97			
	(6.40+1.00+1.00=8.40 m)						2.97			
			2.97	sqm @ RS	192.10	/sqm			383	
24	Charges for Bailing out water									
									5000	
25	Geophysical investigation charges									
									3000	
26	Provision for Name board									
									4500	
									Sub Total Rs.	1169100
27	GST 12%									
									131940	
28	Escalation charges 7%									
									76965	
29	Provision for Photo charges									
									500	
30	Contingencies									
									496	
									Total Rs.	1379000

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