



# NAGAR PANCHAYAT PATHARIYA, CHHATTISGARH



Ministry of Housing and Urban Affairs  
Government of India



## VOL - II

## Swachh Bharat Mission-Urban 2.0



NAGAR PANCHAYAT REPORT UNDER  
SBM 2.0 FOR SWM, NAGAR PANCHAYAT  
PATHARIYA, CHHATTISGARH

**Cost Estimate For  
Solid Waste Management At  
Nagar Panchayat Pathariya, Bilaspur (C.G.)**

<b>A</b>	<b>PT. SHYAMA PRASAD MUKHERJEE, WARD NO. - 08</b>	
	<b>COST OF SLRM CENTRE</b>	
	<b>Part - I SOR ITEM</b>	
	<b>PROPOSED CIVIL WORK</b>	<b>Amount</b>
<b>1</b>	SLRM Revamping Work	322224.63
<b>2</b>	Bounday Wall Revamping Work	141472.66
<b>3</b>	Rain Water Harvesting	32001.00
<b>4</b>	Plumbing & Sanitary Work	46063.00
	<b>Total - I</b>	<b>541761.29</b>
	<b>Part - II NON-SOR ITEM</b>	
<b>5</b>	Conveyor Belt	155000.00
<b>6</b>	HDPE Wheel Container (10 Nos.)	13750.00
<b>7</b>	Weigh Bridge	225000.00
<b>8</b>	Bale Trolley (03 Nos.)	20400.00
<b>9</b>	Surveillance Camera	17813.00
<b>10</b>	Turbine Vetilator	15000.00
	<b>Total</b>	<b>446963.00</b>
	<b>Total - A (I+II)</b>	<b>988724.29</b>
<b>B</b>	<b>PT. SHYAMA PRASAD MUKHERJEE, WARD NO. - 08</b>	
	<b>COST OF WINDROW COMPOST PLANT</b>	
	<b>Part - I SOR ITEM</b>	
	<b>PROPOSED CIVIL WORK</b>	
<b>1</b>	Windrow Compost Plant 2 TPD	850329.55
<b>2</b>	Storage Room	639658.87
<b>3</b>	Leachate Tank	75225.82
<b>4</b>	C.C. Flooring	70560.00
<b>5</b>	Boundary Wall With Fencing	154690.49
	<b>Total - I</b>	<b>1790464.73</b>
	<b>Part - II NON-SOR ITEM</b>	
<b>6</b>	Wheel Barrow	11000.00
<b>7</b>	Compost Sieve Machine	47500.00
	<b>Total</b>	<b>58500.00</b>
	<b>Total - B (I+II)</b>	<b>1848964.73</b>
	<b>Total Of Part (A+B)</b>	<b>2837689.02</b>
	<b>Or Say</b>	<b>28.37</b>

**SLRM CENTRE AT**  
**PT. SHYAMA PRASAD**  
**MUKHERJEE WARD NO- 08**

<b>DETAILED ESTIMATE FOR PROPOSED WORK OF  " SLRM CENTRE AT PT. SHYAMA PRASAD MUKHERJEE WARD NO - 08 "  NAGAR PANCHAYAT PATHARIYA, MUNGELI (C.G.)</b>		
<b>A</b>	<b>PT. SHYAMA PRASAD MUKHERJEE, WARD NO. - 08</b>	
	<b>COST OF SLRM CENTRE</b>	
	<b>Part - I SOR ITEM</b>	
	<b>CIVIL WORK</b>	
<b>1</b>	SLRM Revamping Work	322224.63
<b>2</b>	Bounday Wall Revamping Work	141472.66
<b>3</b>	Rain Water Harvesting	32001.00
<b>4</b>	Plumbing & Sanitary Work	46063.00
	<b>Total I</b>	<b>541761.29</b>
	<b>Part - III NON-SOR ITEM</b>	
<b>5</b>	Conveyor Belt	155000.00
<b>6</b>	HDPE Wheel Container (10 Nos.)	13750.00
<b>7</b>	Weigh Bridge	225000.00
<b>8</b>	Bale Trolley (03 Nos.)	20400.00
<b>9</b>	Surveillance Camera	17813.00
<b>10</b>	Turbine Vetilator	15000.00
	<b>Total</b>	<b>446963.00</b>
	<b>18% GST</b>	<b>80453.34</b>
	<b>Total -II</b>	<b>527416.34</b>
<b>Total Of Part (I+II)</b>		<b>1069177.63</b>

**DETAILED ESTIMATE FOR PROPOSED WORK OF**  
**" SLRM CENTRE AT PT. SHYAMA PRASAD MUKHERJEE WARD NO - 08 "**  
**NAGAR PANCHAYAT PATHARIYA, MUNGELI (C.G.)**

**(Building SOR Items) W.E.F. - 01/01/2015**

S NO.	ITEM NO.	DESCRIPTION	NO.	L	B	H/D	QTY	UNIT	RATE	AMOUNT
<b>SLRM FLOORING WORK</b>										
1	(BUILDING SOR ITEM NO.- 16.8/146)	Dismantling flag stone flooring laid in cement/lime mortar including stacking of serviceable material and disposal of unserviceable material within 50 metre lead.								
			1.00	23.40	9.60	-	224.64			
			2.00	3.00	3.00	-	18.00			
			1.00	3.20	3.00	-	9.60			
							<b>252.24</b>	<b>SQ.M</b>	<b>57.00</b>	<b>14377.68</b>
2	(BUILDING SOR ITEM NO.- 12.49/118)	25 mm thick <b>KOTA stone</b> slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 SQ.M and upto 0.50 SQ.M)								
			1.00	23.40	9.60	-	224.64			
			2.00	3.00	3.00	-	18.00			
			1.00	3.20	3.00	-	9.60			
		Add 10% Extra					22.46			
							<b>274.70</b>	<b>SQ.M</b>	<b>897.00</b>	<b>246409.49</b>
<b>SLRM PAINTING WORK</b>										
3	As per Ammendment no 08, 05/05/2025 item no.16.62	Providing and applying Acrylic washable Distemper or lite economy Plastic emulsion paint having VOC content less than 50gms/ lit Minimum two coats up to final finish applied @ 1.25 Kg/ 10Sq.m as per relevant L.S. Code 428:2000 (product such as Tractor Uno, Dulux Duval, Berger Bison, Opus Style/lite economy emulsion product such as Asian Tactor Spark Dulux Pomise sheen, Neroloc Litil Master, Berger Bison Lite, Nippon Superio.) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour complete for the work.								
		Office & Store Area								
			3	9.6		3	86.40			
			6	3	-	3	54.00			
		Door Deduct	-3	0.9	-	2.1	-5.67			
		Window Deduct	-3	1.2	-	1.2	-4.32			
		SLRM Wall	2	23.6	-	1.2	56.64			
			1	9.6	-	1.2	11.52			
		Gate Deduct	-1	3	-	1.2	-3.60			
						<b>Total</b>	<b>194.97</b>	<b>Sqm</b>	<b>64.00</b>	<b>12478.08</b>
4	As per Ammendment no 08, 05/05/2025 item no.14.67	Providing and applying on exterior surface with ECONOMY Exterior Emulsion paint of required shades to give protective and water proof finish minimum three coats applied @ 1.43 lit / 10Sq.m up to final finish as per relevant I.S. Code 15489:2013 Type -2 Class D,C (Glossy /Semi Glossy finish ) (Product such as Asian Ace,Dulux Promise Exterior Berger Wall Masta ,Neroloc Suraksha Plus , Nippon Shogun Opus, One Style Power Bright) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work (With 2 Year Warranty)								
		Office & Store Area	1	10	-	3.1	31.00			
			2	3.4	-	3.1	21.08			
		SLRM Wall	2	23.6	-	1.3	61.36			
			1	10	-	1.3	13.00			
		Gate Deduct	-1	3	-	1.3	-3.90			
						<b>Total</b>	<b>122.54</b>	<b>Sqm</b>	<b>70.00</b>	<b>8577.80</b>
5	As per Ammendment no 08, 05/05/2025 item no.14.74	Providing and applying priming coat on steel work with red Oxide/ zinc phosphate primer applied @ 0.50 lit /Sq.m as per relevant code 3536:1999 ( product such as Asian Zinc phosphate , Dulux Steel primer, Burger Red oxide primer ) with all tools tackles and labour etc. complete for the work								
		Premium synthetic enamel paint								
		On Steel	2.00	27	5.50		297.00			
		SLRM side jali	2.00	23.6	1.20		56.64			
			1.00	9.6	1.20		11.33			
							<b>364.97</b>	<b>Sqm</b>	<b>35.00</b>	<b>12773.88</b>

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**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" SLRM CENTRE AT PT. SHYAMA PRASAD MUKHERJEE WARD NO - 08 "  
NAGAR PANCHAYAT PATHARIYA, MUNGELI (C.G.)**

**" REVAMPING OF BOUNDARY WALL & FENCING - 81.0 M "**

S.No.	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soil								
	<b>Main Wall Along Road</b>	30	0.30	0.30	0.80	2.16			
	<b>PWD S.O.R.-P-09/I-1.1.1</b>					<b>2.16</b>	<b>185.00</b>	<b>cum</b>	<b>399.60</b>
2	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. <b>Building sor 2015Item no. 1.18</b>								
	<b>below pcc</b>	30	0.30	0.30	0.10	<b>0.27</b>	<b>371.00</b>	<b>cum</b>	<b>100.17</b>
	<b>Building sor 2015Item no. 1.18</b>								
3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	<b>Main Wall Along Road</b>	30	0.30	0.30	0.70	1.89			
	<b>PWD S.O.R.-P-23/I-3.1.3</b>					<b>1.89</b>	<b>2970.00</b>	<b>cum</b>	<b>5613.30</b>
4	Steel work in tubular structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.								
	Electric resistance or induction butt welded tubes								
	M S 40X40 x4.00 mm Th. Post @ 4.09kg/ Rmt	30	2.30		4.09	282.21			
	<b>[S.O.R. Page no. 85 I- 9.3.1]</b>								
						<b>282.21</b>	<b>88.50</b>	<b>Kg</b>	<b>24975.59</b>
5	Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide zinc chromate primer and placing the post/ strut in cement concrete block.								
	Vertical- post-	30	2.00	-	-	60.00			
						<b>14.80 KG/MTR</b>	<b>888.00</b>		
	<b>(BUILDING SOR. ITEM NO.- 9.45/85)</b>					<b>888.00</b>	<b>KG</b>	<b>69.50</b>	<b>61716.00</b>
6	Providing and fixing concertina coil fencing with required dia 610 mm (having 50 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-incharge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)								
	<b>(BUILDING SOR. ITEM NO.- 9.40/84)</b>								
		1	88.00			<b>88.00</b>	<b>MTR</b>	<b>164.00</b>	<b>14432.00</b>



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**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" SLRM CENTRE AT PT. SHYAMA PRASAD MUKHERJEE WARD NO - 08 "  
NAGAR PANCHAYAT PATHARIYA, MUNGELI (C.G.)**

<p align="center"><b>" RAIN WATER HARVESTING (1.00X1.00X1.20 M) "</b></p>
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**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" SLRM CENTRE AT PT. SHYAMA PRASAD MUKHERJEE WARD NO - 08 "  
NAGAR PANCHAYAT PATHARIYA, MUNGELI (C.G.)**

**" PLUMBING & SANITARY WORK "**

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
1	Providing and fixing vitreous china water closet ( <b>European type W.C. pan</b> ) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :								
	18.4.2 Coloured pedestal type	1	-	-	-	1.00	EACH	2889.00	2,889.00
	(BUILDING SOR ITEM NO.-18.4/161)								
2	18.1 Providing and fixing water closet squatting pan ( <b>Indian type W.C. pan</b> ), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :								
	Coloured Orissa pattern W.C. pan of size 580x440 mm	1	-	-	-	1.00	EACH	2899.00	2,899.00
	(BUILDING SOR ITEM NO.-18.1/160)								
3	Providing and fixing <b>10 litre capacity P.V.C. low level flushing cistern</b> conforming to IS : 7231, with all fittings and fixtures complete.								
	18.7.2 Coloured	2	-	-	-	2.00	EACH	729.00	1,458.00
	(BUILDING SOR ITEM NO.-18.7/161)								
4	Providing and fixing vitreous china <b>wash basin</b> with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :								
	Coloured Size 550x450 mm	1	-	-	-	1.00	EACH	1894.00	1,894.00
	(BUILDING SOR ITEM NO.-18.17/162)								
5	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.								
	18.76.1 75 mm dia pipe.	1	5.00	-	-	5.00	MTR	182.00	910.00
	18.76.2 110 mm dia pipe.	1	5.00	-	-	5.00	MTR	267.00	1,335.00
	(BUILDING SOR ITEM NO.-18.76/170)								
6	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.								
	Tee/ Tee with door/ Bend 45°/ Bend 90°								
	18.77.1.1 75 mm	5	-	-	-	5.00	EACH	113.00	565.00
	18.77.1.2 110 mm	5	-	-	-	5.00	EACH	154.00	770.00
	Vent covel								
	18.77.3.1 75 mm	4	-	-	-	4.00	EACH	34.00	136.00
	18.77.3.2 110 mm	4	-	-	-	4.00	EACH	44.00	176.00
	Access door cap								
	18.77.4.1 75 mm	10	-	-	-	10.00	EACH	49.50	495.00
	18.77.4.2 110 mm	10	-	-	-	10.00	EACH	59.00	590.00
	18.77.6 Nahani Trap 110	10	-	-	-	10.00	EACH	90.50	905.00
	(BUILDING SOR ITEM NO.-18.77/170)								
7	Providing and fixing UV stabilized Unplasticised <b>PVC pipe</b> clips of approved design to Rigid PVC pipes by means of 50 x 50 x 50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1cement :4 coarse sand ) and making good the wall etc. complete.								
	18.78.1 75 mm	10	-	-	-	10.00	EACH	57.00	570.00
	18.78.2 110 mm	10	-	-	-	10.00	EACH	61.00	610.00
	(BUILDING SOR ITEM NO.-18.78/171)								
8	Providing and fixing Chlorinated Polyvinyl Chloride ( <b>CPVC</b> ) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.CONCEALED WORK including cutting chases and making good the walls etc.,								

	19.5.1 15 mm nominal outer dia .Pipes.	1	5.00	-	-	5.00	MTR	133.00	665.00
	19.5.2 20 mm nominal outer dia .Pipes.	1	5.00	-	-	5.00	MTR	167.00	835.00
	<b>(BUILDING SOR ITEM NO.-19.5/176)</b>								
9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.INTERNAL WORK - EXPOSED ON WALL.								
	19.4.3 25 mm nominal outer dia .Pipes.	1	5.00	-	-	5.00	MTR	199.00	995.00
	19.4.4 32 mm nominal outer dia .Pipes.	1	5.00	-	-	5.00	MTR	271.00	1,355.00
	19.4.5 40 mm nominal outer dia .Pipes.	1	5.00	-	-	5.00	MTR	362.00	1,810.00
	<b>(BUILDING SOR ITEM NO.-19.5/176)</b>								
10	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:								
	19.7.6 50 mm dia. nominal bore	1	5.00	-	-	5.00	MTR	471.00	2,355.00
	<b>(BUILDING SOR ITEM NO.-19.7/177)</b>								
11	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:								
	19.14.1 Bib cock (400 grams)	2	-	-	-	2.00	EACH	382.00	764.00
	19.14.6 Stop cock (concealed) (600 grams)	2	-	-	-	2.00	EACH	494.00	988.00
	19.14.4 Piller Cock (400 grams)	2	-	-	-	2.00	EACH	398.00	796.00
	19.14.14 Soap dish plate	2	-	-	-	2.00	EACH	163.00	326.00
	<b>(BUILDING SOR ITEM NO.-19.14/179)</b>								
12	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.								
	18.25.2 40 mm dia								
	<b>(BUILDING SOR ITEM NO.-18.25.2/164)</b>	4	-	-	-	4.00	EACH	88.50	354.00
13	Providing and fixing 600x450 mm beveled edge 4mm mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.								
	<b>(BUILDING SOR ITEM NO.-18.29/164)</b>	2	-	-	-	2.00	EACH	599.00	1,198.00
14	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :								
	18.30.1 5mm thick mirror								
	<b>(BUILDING SOR ITEM NO.-18.30/164)</b>	2	0.60	0.60	-	0.72	SQ.M	2016.00	1,452.00
15	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (dia of main line to be measured)								
	19.10.4 50 mm nominal bore	5	-	-	-	5.00	EACH	347.00	1,735.00
	<b>(BUILDING SOR ITEM NO.-19.10/178)</b>								
16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):								
	19.16.4 50 mm nominal bore	2	-	-	-	2.00	EACH	762.00	1,524.00
	<b>(BUILDING SOR ITEM NO.-19.16/179)</b>								
17	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :								
	20.1.1 100 mm diameter	1	10.00	-	-	10.00	MTR	162.00	1,620.00
	<b>(BUILDING SOR ITEM NO.-20.1/189)</b>								
18	Providing and constructing brick masonry chamber for underground pipe and and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm2 in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :								
	20.28.1 Inside dimensions 455x610 mm and 45 cm deep for single pipe line :	1	-	-	-	1.00	EACH	3796.00	3,796.00
	<b>(BUILDING SOR ITEM NO.-20.28/194)</b>								

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**WINDROW COMPOST PLANT**  
**AT PT. SHYAMA PRASAD**  
**MUKHERJEE WARD NO- 08**

**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" WINDROW COMPOST PLANT AT PT. SHYAMA PRASAD  
MUKHERJI WARD NO - 08 "  
NAGAR PANCHAYA PATHARIYA, MUNGELI (C.G.)**

<b>B</b>	<b>PT. SHYAMA PRASAD MUKHERJEE, WARD NO. - 08</b>	
	<b>COST OF WINDROW COMPOST PLANT</b>	
	<b>Part - I SOR ITEM</b>	
	<b>CIVIL INFRASTRUCTURE</b>	
<b>1</b>	Windrow Compost Plant 2 TPD	850329.55
<b>2</b>	Storage Room	639658.87
<b>3</b>	Leachate Tank	75225.82
<b>4</b>	C.C. Flooring	70560.00
<b>5</b>	Boundary Wall With Fencing	154690.49
	<b>Total - I</b>	<b>1790464.73</b>
	<b>Part - II NON-SOR ITEM</b>	
<b>6</b>	Wheel Barrow	11000.00
<b>7</b>	Compost Sieve Machine	47500.00
	<b>Total</b>	<b>58500.00</b>
	<b>18% GST</b>	<b>10530.00</b>
	<b>Total -II</b>	<b>69030.00</b>
	<b>Total Of Part (I+II)</b>	<b>1859494.73</b>

**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" WINDROW COMPOST PLANT AT PT. SHYAMA PRASAD  
MUKHERJI WARD NO - 08 "  
NAGAR PANCHAYA PATHARIYA, MUNGELI (C.G.)**

Based on C. G. P.W.D BUILDING S.O.R. IN FORCE FROM 1 JAN 2015

**WINDROW COMPOST PLANT - 2 TPD**

SN	DESCRIPTION OF ITEM	NO	MEASUREMENT			QTY	RATE	UNIT	AMOUNT
			L	B	H/D				
I	II	III	IV	V	VI	VII	VIII	IX	X
1	1.1 Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and level								
	1.1.1 In all types of soils.								
	F1(1500X1500)	12	1.50	1.50	1.70	45.90			
	For Beam	1	51.80	0.40	0.20	4.14			
	<b>total</b>					<b>50.04</b>	<b>185.00</b>	<b>cum</b>	<b>9258.14</b>
2	1.18 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc complete.								
	<b>Footing</b>								
	F1(1500X1500)	12	1.50	1.50	0.10	2.70			
	For Beam	1	51.80	0.40	0.10	2.07			
	<b>total</b>					<b>4.77</b>	<b>371.00</b>	<b>cum</b>	<b>1770.41</b>
3	3.1 Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	<b>Footing</b>								
	F1(1500X1500)	12	1.50	1.50	0.10	2.70			
	For Beam	1	51.80	0.40	0.10	2.07			
	<b>total</b>					<b>4.77</b>	<b>2970.00</b>	<b>cum</b>	<b>14172.84</b>
4	3.2 Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works up to plinth level excluding cost of form work								
	3.2.1 1:1 ½ :3 (1 cement : 1 ½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	<b>F1(1500X1500)</b>	12	1.30	1.30	0.30	6.08			
	<b>Subtotal a</b>					<b>6.08</b>			
	<b>Column upto G L</b>								
	C1(300X300)	12	0.30	0.30	1.20	1.30			
	<b>Subtotal b</b>					<b>1.30</b>			
	<b>Column above G L</b>								
	C1(300X300)	12	0.30	0.30	0.75	0.81			
	<b>Subtotal c</b>					<b>0.81</b>			
	<b>Plinth Beam</b>								
		1	51.80	0.30	0.40	6.22			
	<b>Subtotal d</b>					<b>6.22</b>			
	<b>total</b>					<b>14.41</b>	<b>4163.00</b>	<b>cum</b>	<b>59972.18</b>
5	2.1 Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal								
	2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	<b>Footings</b>								
	F1(1500X1500)	1	12	5.20	0.30	18.72			
	<b>Column upto G L</b>								
	C1(300X300)	1	12	1.20	1.20	17.28			
	<b>Column above G L</b>								
	C1(300X300)	1	12	1.20	0.75	10.80			
	<b>Plinth Beam</b>								
		1	2	51.80	0.40	41.44			



SN	DESCRIPTION OF ITEM	NO	MEASUREMENT			QTY	RATE	UNIT	AMOUNT
			L	B	H/D				
I	II	III	IV	V	VI	VII	VIII	IX	X
	<b>total</b>					<b>88.24</b>	<b>139.00</b>	<b>sqm</b>	<b>12265.36</b>
6	3.12 Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.1 Thermo-Mechanically treated bars FE 415								
	Footing		6.08		80.00	486.72			
	Column		2.11		80.00	168.48			
	Plinth Beam		6.22		80.00	497.28			
	<b>total</b>					<b>1152.48</b>	<b>54.50</b>	<b>Kg</b>	<b>62810.16</b>
7	1.17 Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M.								
	60% of excavated Qty.					30.03			
	<b>total</b>					<b>30.03</b>	<b>65.00</b>	<b>cum</b>	<b>1951.72</b>
8	1.18 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc complete.								
	Windrow Shed and Wet Tipping Platform	1	20.90	6.20	0.30	38.87			
	<b>total</b>					<b>38.87</b>	<b>371.00</b>	<b>cum</b>	<b>14422.25</b>
9	12.4 52 mm thick cement concrete flooring with under layer of 40mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer of 12 mm thick cement metallic hardener concrete mix 1:2 (1 cement hardener mix : 2 stone aggregate of 6 mm size by volume) with metallic hardening compound of approved quality mixed with cement in ratio of 4:1 (4 cement : 1 metallic floor hardening compound by weight) including finishing etc.								
	Windrow Shed and Wet Tipping Platform	1	20.90	6.20		129.58			
	<b>total</b>					<b>129.58</b>	<b>441.00</b>	<b>cum</b>	<b>57144.78</b>
10	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.3 Cement Mortar 1:4 (1 cement : 4 coarse sand)								
	Wall	1	51.80	0.20	0.35	3.63			
	<b>Subtotal</b>					<b>3.63</b>			
	<b>Deductions</b>								
	Opening	2	6.20	0.20	0.35	0.87			
	<b>Subtotal</b>					<b>0.87</b>			
	<b>total</b>					<b>2.76</b>	<b>3384.00</b>	<b>cum</b>	<b>9333.07</b>
11	11.2 Providing and making 12mm thick cement plaster of mix:								
	11.2.4 In Cement Mortar 1:6 (1 cement : 6 fine sand)								
	Internal wall	1	51.80		0.35	18.13			
	C1(300X300)	1	12	0.30	0.35	1.26			
	<b>Subtotal</b>					<b>19.39</b>			
	<b>Openings</b>								
	Opening	2	6.20		0.35	4.34			
	<b>Subtotal</b>					<b>4.34</b>			
	<b>total</b>					<b>15.05</b>	<b>91.50</b>	<b>sqm</b>	<b>1377.08</b>
12	11.3 Providing and making 15mm thick cement plaster on the rough side of single or half brick wall								
	11.3.3 In Cement Mortar 1:5 (1 cement : 5 fine sand)								
	External Wall	1	51.80		0.35	18.13			
	C1(300X300)	1	12	0.30	0.35	1.26			
	<b>total</b>					<b>19.39</b>	<b>113.00</b>	<b>sqm</b>	<b>2191.07</b>

SN	DESCRIPTION OF ITEM	NO	MEASUREMENT			QTY	RATE	UNIT	AMOUNT
			L	B	H/D				
I	II	III	IV	V	VI	VII	VIII	IX	X
13	Providing and applying Acrylic washable Distemper or lite economy Plastic emulsion paint having VOC content less than 50gms/ lit Minimum two coats up to final finish applied @ 1.25 Kg/ 10Sqm as per relevant L.S. Code 428:2000 (product such as Tractor Uno, Dulux Duval, Berger Bison, Opus Style/lite economy emulsion product such as Asian Tactor Spark Dulux Pomise sheen, Neroloc Lital Master, Berger Bison Lite, Nippon Superio.) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour complete for the work.								
	As per Ammendment no 08, 05/05/2025 item no.16.62								
	<b>Area of Internal Plaster</b>		15.05			15.05			
	<b>total</b>					<b>15.05</b>	<b>64.00</b>	<b>sqm</b>	<b>963.20</b>
14	Providing and applying on exterior surface with ECONOMY Exterior Emulsion paint of required shades to give protective and water proof finish minimum three coats applied @ 1.43 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -2 Class D,C (Glossy /Semi Glossy finish ) (Product such as Asian Ace,Dulux Promise Exterior Berger Wall Masta ,Nerolac Suraksha Plus , Nippon Shogun Opus, One Style Power Bright) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work (With 2 Year Warranty)								
	As per Ammendment no 08, 05/05/2025 item no.14.67								
	<b>Area of External Wall</b>								
			19.39			19.39			
	<b>total</b>					<b>19.39</b>	<b>70.00</b>	<b>sqm</b>	<b>1357.30</b>
15	9.3 Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc								
	9.3.1 Electric resistance or induction butt welded tubes Grade-250								
	<b>PWD S.O.R.-P-80/I-9.3.1</b>								
	Pole @38.90kg/meter	1	12	4.00	38.90	-	1867.20		
	Truss On Processing Shed								
	Tie Beam 50mm dia @6.19Kg/meter	6	1	7.60	6.19	-	282.26		
	Rafter 50mm dia @6.19Kg/meter	6	2	3.80	6.19	-	282.26		
	Intermediate members 50mm dia @6.19Kg/meter	6	2	7.10	6.19	-	527.39		
	Purlins 40mm dia @ 4.37Kg/meter ( On Top)	3	2	22.30	4.37	-	584.71		
							3543.82		
	Gusset Plate, Fixing Bolt and Base Plate Etc	10%					354.38		
	<b>total</b>					<b>3898.20</b>	<b>88.50</b>	<b>Kg</b>	<b>344990.88</b>
16	10.12 Supply and fixing of polymer precoated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.								
	<b>PWD S.O.R.-P-91/I-10.11</b>								
	Roofing		2	22.30	3.80		169.48		
	<b>total</b>					<b>169.48</b>	<b>693.00</b>	<b>sqm</b>	<b>117449.64</b>

[illegible]

**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" WINDROW COMPOST PLANT AT PT. SHYAMA PRASAD  
MUKHERJI WARD NO - 08 "  
NAGAR PANCHAYA PATHARIYA, MUNGELI (C.G.)**

**" STORAGE ROOM "**

S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).								
		Plot Area	1	13.50	7.00	-	94.50			
						<b>Total</b>	<b>94.50</b>	<b>Sqm</b>	<b>7.20</b>	<b>680.00</b>
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soil								
		Footing								
		F1	8	1.50	1.50	1.80	32.40			
		Below Plinth								
		Long Wall	2	10.70	0.40	0.20	1.71			
		Short Wall	2	4.40	0.40	0.20	0.70			
		step	1	1.20	1.00	0.20	0.24			
						<b>Total</b>	<b>35.05</b>	<b>Cum</b>	<b>185.00</b>	<b>6484.00</b>
3	2	Extra for every additional lift of 1.5 m or part thereof.								
	1.6.1	All types of soil								
		F1	8	1.50	1.50	0.30	5.40			
						<b>Total</b>	<b>5.40</b>	<b>Cum</b>	<b>26.50</b>	<b>143.00</b>
4	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		Filling At Side 60%					21.03			
						<b>Total</b>	<b>21.03</b>	<b>Cum</b>	<b>65.00</b>	<b>1367.00</b>
5	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		F1	8	1.50	1.50	0.10	1.80			
		Floor	1	11.10	4.60	0.50	25.53			
		step	1	1.20	1.00	0.20	0.24			
		Long Wall	2	10.70	0.40	0.10	0.86			
		Short Wall	2	4.40	0.40	0.10	0.35			
						<b>Total</b>	<b>28.78</b>	<b>Cum</b>	<b>371.00</b>	<b>10677.00</b>
6	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								

S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
		Below Footing								
		F1	8	1.50	1.50	0.10	1.80			
		Floor Area	1	10.70	4.40	0.10	4.71			
		Below Plinth Beam								
		Long Wall	2	10.70	0.30	0.10	0.64			
		Short Wall	2	4.40	0.30	0.10	0.26			
		step	1	1.20	1.00	0.10	0.12			
						<b>Total</b>	<b>7.53</b>	<b>Cum</b>	<b>2970.00</b>	<b>22364.00</b>
7	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.								
		Long Wall	2	10.70	0.20	0.05	0.21			
		Short Wall	2	4.40	0.20	0.05	0.09			
						<b>Total</b>	<b>0.30</b>	<b>Cum</b>	<b>4237.00</b>	<b>1271.00</b>
8	3.15	Applying a coat of hot bitumen VG-10 using @ 1.7kg/ sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.								
		Long Wall	2	10.70	0.20	-	4.28			
		Short Wall	2	4.40	0.20	-	1.76			
						<b>Total</b>	<b>6.04</b>	<b>Sqm</b>	<b>93.50</b>	<b>565.00</b>
9	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		<b>Footing</b>								
		F1	8	1.20	1.20	0.30	3.46			
		<b>Column (Upto Ground Level)</b>								
		C1	8	0.20	0.30	1.30	0.62	<b>2.15</b>		
		<b>Column(Ground Lvl to Plinth Lvl)</b>								
		C1	8	0.20	0.30	0.60	0.29			
		<b>Column (Abv. Plinth Top to GF Slab Top)</b>								
		C1	8	0.20	0.30	3.10	1.49			
		<b>Plinth Beams</b>								
		Outer at Ground Lvl								
		Long Wall	2	10.70	0.20	0.45	1.93			
		Short Wall	2	4.40	0.20	0.45	0.79			
		<b>Lintel Beam</b>								
		Long Wall	1	10.70	0.20	0.15	0.32			
		<b>Chajja</b>								
		Long Wall	1	11.50	0.60	0.075	0.52			
		<b>Slab Beam</b>								
		Long Wall	2	10.70	0.20	0.45	1.93			
		Short Wall	4	4.40	0.20	0.45	1.58			
		<b>Slab</b>								
		All Area	1	10.90	4.80	0.125	6.54			
						<b>Total</b>	<b>19.47</b>	<b>Cum</b>	<b>4163.00</b>	<b>81054.00</b>
10	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.1	Thermo-Mechanically treated bars FE 415								
		As per Item No-	1	19.47	-	-	19.47			

S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
						<b>Total</b>	<b>19.47</b>	<b>Cum</b>		
		@ 100kg /Cum of Concrete	1	19.47	x	100.00	1947.00			
						<b>Total</b>	<b>1947.00</b>	<b>Kg</b>	<b>54.50</b>	<b>106112.00</b>
11	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		<b>Footing</b>								
		F1	8	4.80	-	0.30	11.52			
		<b>Column (Upto Ground Level)</b>								
		C1	8	1.00	-	1.30	10.40			
		<b>Column(Ground Lvl to Plinth Lvl)</b>								
		C1	8	1.00	-	0.60	4.80			
		<b>Plinth Beams</b>								
		Outer at Ground Lvl								
		Long Wall	2	10.70	-	0.90	19.26			
		Short Wall	2	4.40	-	0.90	7.92			
						<b>Total</b>	<b>53.90</b>	<b>Sqm</b>	<b>139.00</b>	<b>7492.00</b>
	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		Column (Abv. Plinth Top to GF Slab Top)								
		C1	8	1.00	-	3.10	24.80			
						<b>Total</b>	<b>24.80</b>	<b>Sqm</b>	<b>297.00</b>	<b>7366.00</b>
	2.1.13	Weather shade, chhajja, Cornices and mouldings								
		Long Wall	1	11.50	0.60	-	6.90			
		Side	1	12.70	-	0.10	1.27			
						<b>Total</b>	<b>8.17</b>	<b>Sqm</b>	<b>294.00</b>	<b>2402.00</b>
	2.1.8	Beams, lintels, cantilevers & walls								
		<b>Lintel Beam</b>								
		Long Wall	2	10.70	-	0.15	3.21			
		<b>Slab Beam</b>								
		Long Wall	4	10.70	-	0.45	19.26			
		Short Wall	8	4.40	-	0.45	15.84	<b>35.10</b>		
						<b>Total</b>	<b>38.31</b>	<b>Sqm</b>	<b>202.00</b>	<b>7739.00</b>
	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Slab								
		All Area	1	11.30	4.80	-	54.24			
						<b>Total</b>	<b>54.24</b>	<b>Sqm</b>	<b>235.00</b>	<b>12746.00</b>
	2.1.4	Edge of slab, breaks in floor and walls upto 200mm								
		Slab Edges at Slab Lvl	1	32.20	-	-	32.20			
						<b>Total</b>	<b>32.20</b>	<b>Rm</b>	<b>34.00</b>	<b>1095.00</b>
12	7.5	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		step	1	1.20	0.90	0.15	0.16			
		step	1	1.20	0.60	0.15	0.11			
		step	1	1.20	0.30	0.15	0.05			
						<b>Total</b>	<b>0.32</b>	<b>Cum</b>	<b>3263.00</b>	<b>1057.00</b>

S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
13	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Above Plinth								
		Long Wall	2	10.70	0.20	2.95	12.63			
		Short Wall	2	4.40	0.20	2.95	5.19			
		Parapet	2	11.50	0.20	0.60	2.76			
			2	4.60	0.20	0.60	1.10			
		Deduction								
		D	2	1.20	0.20	2.10	-1.01			
		W	2	1.50	0.20	1.20	-0.72			
						<b>Total</b>	<b>19.95</b>	<b>Cum</b>	<b>3384.00</b>	<b>67511.00</b>
14	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								
	9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).								
		W	2	1.50	-	1.20	3.60			
						<b>Total</b>	<b>3.60</b>	<b>Sqm</b>		
		For Weight	1	3.60	x	15.00	54.00	<b>Kg</b>		
						<b>Total</b>	<b>54.00</b>	<b>Kg</b>	<b>338.00</b>	<b>18252.00</b>
15	12.79.1 AS PER AMMEN DMENT	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.								
		12.79.1 Size 600x600mm								
		area								
			1	11.10	4.60		51.06			
						<b>Total</b>	<b>51.06</b>	<b>Sqm</b>	<b>1082.00</b>	<b>55247.00</b>



S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
11	12.50	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (Average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the height of skirting/ dado up to length of 1.0 M.)								
		Steps	4.00	1.20	0.75		3.60			
							<b>3.60</b>	<b>sqm</b>	<b>990.00</b>	<b>3564.00</b>
16	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
							24.80			
							8.17			
							35.10			
							54.24			
			1	32.20		0.125	4.03			
						<b>Total</b>	<b>126.34</b>	<b>Sqm</b>	<b>87.00</b>	<b>10991.00</b>
17	11.2	Providing and making 12mm thick cement plaster of mix:								
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
			2	11.10		3.00	66.60			
			2	4.60		3.00	27.60			
		Deduction								
		D	2	1.20		2.10	-5.04			
		W	2	1.50		1.20	-3.60			
						<b>Total</b>	<b>85.56</b>	<b>Sqm</b>	<b>91.50</b>	<b>7829.00</b>
18	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	11.3.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
		Outer Plaster								
		Long Wall	2	11.50	-	5.10	117.30			
		Short Wall	2	5.00	-	5.10	51.00			
		Deduction								
		D	2	1.20		2.10	-5.04			
		W	2	1.50		1.20	-3.60			
						<b>Total</b>	<b>159.66</b>	<b>Sqm</b>	<b>107.00</b>	<b>17084.00</b>
19	As per Ammendment no 08, 05/05/2025 item no.14.57	Providing and applying 2mm thick white cement based Acrylic grade putty with minimum 3 coats applied @ 4.0 kg/ 10Sqm as per relevant IS code 17545:2021 (Product such as Asian trucare, Berger Happy walls Putty Birla Opus One pro smooth) to make the surface smooth and even with all tools tackles and labour etc. complete for the work . (This Item to be use in heigher grade painting works Item No. 14.65)								
		As per item No-	16	-	-	-	126.34			
		As per item No-	17	-	-	-	85.56			
		As per item No-	18	-	-	-	159.66			
						<b>Total</b>	<b>371.56</b>	<b>Sqm</b>	<b>95.00</b>	<b>35298.00</b>

S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
20	As per Amend ment no 08, 05/05/2025 item no.16.60	Providing and applying of Acrylic primer on all surface applied @0.80 litrs/10 sqm as per relevant I.S. code 15489:1974 ( Product such as Asian Spark/suprimo , J.K. Primer, Dulux Acrylic Primer) with all tools tackles and labour etc. complete for the work.		-	-	-	371.56			
						Total	371.56	Sqm	37.00	13748.00
21	As per Amend ment no 08, 05/05/2025 item no.16.62	Providing and applying Acrylic washable Distemper or lite economy Plastic emulsion paint having VOC content less than 50gms/ lit Minimum two coats up to final finish applicd @ 1.25 Kg/ 10Sq m as per relevant L.S. Code 428:2000 (product such as Tractor Uno, Dulux Duval, Berger Bison, Opus Style/lite economy emulsion product such as Asian Tactor Spark Dulux Pomise sheen, Neroloc Litil Master, Berger Bison Lite, Nippon Superio.) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour complete for the work		-	-	-	85.56			
	14.9.1	On new work (Two or more coats)		-	-	-	126.34			
						Total	211.90	Sqm	64.00	13561.00
22	As per Amend ment no 08, 05/05/2025 item no.14.67	Providing and applying on exterior surface with ECONOMY Exterior Emulsion paint of required shades to give protective and water proof finish minimum three coats applied @ 1.43 lit / 10Sq m up to final finish as per relevant I.S, Code 15489:2013 Type -2 Class D,C (Glossy /Semi Glossy finish ) (Product such as Asian Ace,Dulux Promise Exterior Berger Wall Masta ,Nerolac Suraksha Plus ,Nippon Shogun Opus, One Style Power Bright) inclusiv e of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work (With 2 Year Warranty)		-	-	-	159.66			
						Total	159.66	Sqm	70.00	11176.00
23	4.21	Providing post water proofing treatment against dampness & Seepage in roof, terraces, sunken floor of toilets with reinforced acrylic breathable (polymer content 35%, elongation at break at > 100%) coating consisting of following operations: i) Removing loose material and cleaning the surface. ii) Priming in one coat with water based acrylic emulsion. iii) Three coats with reinforced acrylic breathable polymer	1	11.50	5.00		57.50			
						Total	57.50	Sqm	611.00	35133.0

S. No	SOR	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
24	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.								
		DOOR	12	-	-	-	12.00			
						<b>Total</b>	<b>12.00</b>	<b>Each</b>	<b>72.50</b>	<b>870.0</b>
25	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.								
	8.12.2	35 mm. thick (single leaf)								
	8.15	Extra for double leaf shutter instead of single leaf.								
		Providing post water proofing treatment against dampness & Seepage in roof, terraces, sunken floor of toilets with reinforced acrylic breathable (polymer content 35%, elongation at break at > 100%) coating consisting of following operations: i) Removing loose material and cleaning the surface. ii) Priming in one coat with water based acrylic emulsion. iii) Three coats with reinforced acrylic breathable polymer	2	1.20	-	2.10	5.04			
						<b>Total</b>	<b>5.04</b>	<b>Sqm</b>	<b>2057.00</b>	<b>10367.0</b>
26	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:								
	8.58.2	100x85x5.50 mm (Heavy Type)								
		Providing post water proofing treatment against dampness & Se	12	-	-	-	12.00			
						<b>Total</b>	<b>12.00</b>	<b>Each</b>	<b>195.00</b>	<b>2340.0</b>
27	8.60	Providing and fixing bright finished brass sliding door bolt with nuts and brass polished MS screws complete:								
	8.60.2	250x16mm								
		Providing post water proofing treatment against dampness & Se	2	-	-	-	2.00			
						<b>Total</b>	<b>2.00</b>	<b>Each</b>	<b>344.00</b>	<b>688.0</b>
28	8.61	Providing and fixing brass door latch with brass polished MS screws complete:								
	8.61.2	250x16x5 mm								
		Providing post water proofing treatment against dampness & Se	2	-	-	-	2.00			
						<b>Total</b>	<b>2.00</b>	<b>Each</b>	<b>268.00</b>	<b>536.00</b>
29	8.62	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:								
	8.62.2	200x10mm								
		Providing post water proofing treatment against dampness & Se	2	-	-	-	2.00			
						<b>Total</b>	<b>2.00</b>	<b>Each</b>	<b>231.00</b>	<b>462.0</b>
30	8.65	Providing and fixing bright finished brass door handles with brass polished MS screws complete:								
	8.65.1	125 mm								
			4	-	-	-	4.00			
						<b>Total</b>	<b>4.00</b>	<b>Each</b>	<b>55.50</b>	<b>222.0</b>

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**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" WINDROW COMPOST PLANT AT PT. SHYAMA PRASAD  
MUKHERJI WARD NO - 08 "  
NAGAR PANCHAYA PATHARIYA, MUNGELI (C.G.)**

**" PROPOSED LEACHATE TANK 5.00X2.00X1.50 M "**

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE ( in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at teats 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(BUILDING SOR ITEM NO.-1.1/9)	1	5.70	2.70	2.10	32.32	CUM	185.00	5979.02
2	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	Excavated Area-	1	5.70	2.70	2.10	32.32			
	Deduction Tank Area-	-1	5.40	2.40	1.50	-19.44			
	P.C.C.-	-1	5.70	2.70	0.15	-2.31			
	(BUILDING SOR ITEM NO.-1.17/11)					10.57	CUM	65.00	687.08
3	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
	(BUILDING SOR ITEM NO.- 1.18/11)	1	5.70	2.70	0.15	2.31	CUM	371.00	856.45
4	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of from work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(BUILDING SOR ITEM NO.- 3.1.3/23)	1	5.70	2.70	0.15	2.31	CUM	2970.00	6856.25
5	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. 3.2.1) 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	Bottom Slab-	1	5.40	2.40	0.15	1.94			
	Top Slab-	1	5.40	2.40	0.15	1.94			
	Deduction-	-2	0.60	0.60	0.15	-0.11			
	(BUILDING SOR ITEM NO.- 3.2.1/23)					3.78	CUM	4163.00	15736.14
6	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	Bottom Slab-	1	14.40	-	0.15	2.16			
	(BUILDING SOR ITEM NO.- 2.1.1/16)					2.16	SQ.M	139.00	300.00
7	2.1.7) Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	Top Slab-	1	5.40	2.40	-	12.96			
	side	1	14.40	-	0.15	2.16			
	Deduction-	-2	0.60	0.60	-	-0.72			
	(BUILDING SOR ITEM NO.-2.1.7/16)					14.40	SQM	235.00	3384.00
8	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting bending binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	Qty.as per item no. 5					3.78			
	(BUILDING SOR ITEM NO.-3.12.1/24)					302.40	KG	54.50	16480.80
	80 kg/cum								
9	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS:12894-2002 of class designation 40 in foundation and plinth in:								
	(SOR. ITEM NO.- 7.5.4/45)								
	Cement Mortar 1:6 (1 cement : 6 coarse sand )								
	Extra for brick work in superstructure:								
	(SOR. ITEM NO.- 7.6/45)								
	Leachate Tank Wall	1	14.40	0.20	1.50	4.32			
						4.32	CUM	3384.00	14618.88
10	Providing and making 6 mm thick cement plaster of mix (SOR. ITEM NO.-11.1/103)								
	11.1.2 ) In Cement mortar 1:4 (1 cement : 4 fine sand)								
	Inside Plaster	1	14.40		1.50	21.60			
						21.60	SQM	87.00	1879.20

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**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" WINDROW COMPOST PLANT AT PT. SHYAMA PRASAD  
MUKHERJI WARD NO - 08 "  
NAGAR PANCHAYA PATHARIYA, MUNGELI (C.G.)**

**" EXTERNAL C.C. FLOORING "**

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**DETAILED ESTIMATE FOR PROPOSED WORK OF  
" WINDROW COMPOST PLANT AT PT. SHYAMA PRASAD  
MUKHERJI WARD NO - 08 "  
NAGAR PANCHAYA PATHARIYA, MUNGELI (C.G.)**

**CHAINLINK FENCING**

SN	DESCRIPTION	No.	L	W	H/D	QTY	Rate	Unit	Amount (Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soil <b>PWD S.O.R.-P-09/I-1.1.1</b> Main Wall Along Road	1	50.00	0.50	0.80	20.00			
	<b>total</b>					<b>20.00</b>	<b>185.00</b>	<b>cum</b>	<b>3700.00</b>
2	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M <b>.PWD S.O.R.-P-09/I-1.17</b>								
						20.00			
	<b>Deduction</b>					-2.50			
						-2.50			
						-7.50			
						<b>7.50</b>	<b>65.00</b>	<b>cum</b>	<b>487.50</b>
5	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. <b>Building sor 2015item no. 1.18</b>								
	<b>below pcc</b>	1	50.00	0.50	0.10	<b>2.50</b>	<b>371.00</b>	<b>cum</b>	<b>927.50</b>
6	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size). <b>PWD S.O.R.-P-23/I-3.1.3</b> Main Wall Along Road	1	50.00	0.50	0.10	2.50			
	<b>total</b>					<b>2.50</b>	<b>2970.00</b>	<b>cum</b>	<b>7425.00</b>
7	7.5 Brick work with modular flyash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand) PWD S.O.R.-P-45/I-7.5.4								
	up-to Ground Level								
	Main Wall Along Road	1	50.00	0.30	0.30	4.50			
		1	50.00	0.20	0.30	3.00			
	<b>total</b>					<b>7.50</b>	<b>3263.0</b>	<b>cum</b>	<b>24472.50</b>

SN	DESCRIPTION	No.		L	W	H/D	QTY	Rate	Unit	Amount (Rs.)
8	7.5 Brick work with modular fly- ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand) <b>PWD S.O.R.-P-45/I-7.5.4</b>									
	Above Ground Level Main Wall Along Road		1	50.00	0.20	0.55	5.50			
	Deduct		21	0.20	0.20	0.55	-0.46			
	<b>total</b>						<b>5.04</b>	<b>3263.00</b>	<b>cum</b>	<b>16450.96</b>
9	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work. PWD S.O.R.-P-24/I-3.13									
	<b>PWD S.O.R.-P-24/I-3.13</b>									
	Main Wall Along Road		1	50.00	0.20	0.05	0.50			
	<b>total</b>						<b>0.50</b>	<b>4237.00</b>	<b>cum</b>	<b>2118.50</b>
10	12mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand) <b>PWD S.O.R.-P-103/I-11.2.4</b> Main Wall Along Road <b>Subtotal</b>									
	Main Wall Along Road	2	1	50.00		0.70	70.00			
	<b>total</b>						<b>70.00</b>	<b>91.50</b>	<b>sqm</b>	<b>6405.00</b>
11	Providing and applying on exterior surface with ECONOMY Exterior Emulsion paint of required shades to give protective and water proof finish minimum three coats applied @ 1.43 lit / 10Sqm up to final finish as per relevant I.S, Code 15489:2013 Type -2 Class D,C (Glossy /Semi Glossy finish ) (Product such as Asian Ace, Dulux Promise Exterior Berger Wall Masta ,Nerolac Suraksha Plus, Nippon Shogun Opus, One Style Power Bright) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work (With 2 Year Warranty) <b>As per Ammendment no 08, 05/05/2025 item no.14.67</b>						70.00			
	<b>total</b>						<b>70.00</b>	<b>55.00</b>	<b>sqm</b>	<b>3850.00</b>
12	Steel work in tubular structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.									
	Electric resistance or induction butt welded tubes [S.O.R. Page no. 85 I- 9.3.1]									
	M S 40X40 x4.00 mm Th. Post @ 4.09kg/ Rmt		21	2.35		4.09	200.24			
	M S Frame 20x20x2.80 mm Th. partition pipe @ 1.56 kg/ Rmt		21	7.70		1.56	160.42			
	Bottom /Side	12	21	0.05		1.56	19.50			
							<b>380.16</b>	<b>88.50</b>	<b>Kg</b>	<b>33643.83</b>

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