

ಕಾಮಗಾರಿಯ ಹೆಸರು:ವಾರ್ಡ್ ನಂ 12ರ ಅಟಲ್ ಮನೆಯಿಂದ ದೊಡ್ಡ ಚರಂಡಿವರೆಗೆ ಚರಂಡಿ ನಿರ್ಮಾಣ ಕಾಮಗಾರಿ.

ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ : ನಗರಸಭಾ ನಿಧಿ 2026-27						Estimated Cost :		10.00	lakhs
It No	Description of work	No	Dimensions			Qty	Unit	Rate	Amount
			L	B	D				
	Drain								
1	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work In all kinds of soils Depth upto 3 m (P.No:8, I.No:1.14.1 of KPWD Common S.R Vol-I)								
	(P.No:8, I.No:1.14.1 of KPWD Common S.R Vol-I)								
	Basic rate=		102.00						
	Area weightage 3%=		3.06						
	Total Amount=		105.06						
	Drain	1	60.00	1.45	1.20	104.40			
	Decks slab culvert	2	6.00	1.25	0.80	12.00			
					Total Qty =	116.40	cum	105.06	12228.98
2	Removal of Unserviceable Soil with Disposal upto a suitable distance as directed by the Engineer incharge of work PWD Common DSR 2023-24 Volume 3(P No: 15 I.No: 3.1)								
	(P.No:27, I.No:4.18, of KPWD Common S.R Vol-III)								
	Basic rate=		85.00						
	Area weightage 3%=		2.55						
	Total Amount=		87.55						
	Drain	1	60.00	1.45	1.20	104.40			
	Decks slab culvert	2	6.00	1.25	0.80	12.00			
					Total Qty =	116.40	cum	87.55	10190.82
3	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:4:8 Using 40 mm nominal size graded crushed coarse aggregates(P.No:15, I.No:2.1.2 of KPWD Common S.R Vol-I)								
	(P.No:15, I.No:2.1.2 of KPWD Common S.R Vol-I)								
	Basic rate=		5607.00						
	Area weightage 3%=		168.21						
	Total Amount=		5775.21						
	Drain	1	60.00	1.45	0.10	8.70			
	Decks slab culvert	2	6.00	1.25	0.10	1.50			
					Total Qty =	10.20	cum	5775.21	58907.14
4	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (P.No:16, I.No:2.4.2 of KPWD S.R Vol-I)								

	(P.No:16, I.No:2.4.2 of KPWD S.R Vol-I)							
	Basic rate=		6221.00					
	Centering & Shuttering Charges 35%		2177.35					
	Area weightage 3%=		251.95					
	Total Amount=		8650.30					
	Bottom	1	60.00	1.00	0.10	6.00		
	wall	2	60.00	0.15	1.00	18.00		
	Decks slab culvert							
	Bottom	2	6.00	1.10	0.10	1.32		
	wall	4	6.00	0.25	0.60	3.60		
	Slab	2	6.00	1.20	0.25	3.60		
	Ramp	4	6.00	1.00	(0.25+0)/2	3.00		
				Total Qty =	35.52	cum	8650.30	307258.67
5	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification. (P.No:18, I.No:2.11a , of KPWD Common S.R Vol-I)							
	(P.No:18, I.No:2.11a , of KPWD Common S.R Vol-I)							
	Issue rate=		90464.00					
	Area weightage 3%=		2713.92					
	Total Amount=		93177.92					
	Drain	1	60.00	14.00	Kg/m	840.00		
	Decks slab culvert	2	6.00	35.00	Kg/m	420.00		
						1260.00	kg	
				Total Qty =	1.26	T	93177.92	117404.18
6	Providing 50 mm Dia HDPE Sleeve pipe with allied accessories at ferrule point of HSC to assist in regulating flow with allen key with appurtenances., complete.(P.No 109, I.No.9.22 C S.R2023-24,VOL5)							
	Basic rate		293.00	Each				
	Area weightage 3%		8.79					
	Total Amount=		301.79					
		14				14.00		
				Total Qty =	14.00	no.s	301.79	4225.06
7	Providing and fixing Unplasticised Polyvinyl Chloride (uPVC) pipes, for cold water supply including all uPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step uPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 15 mm nominal dia Pipes (CSR 2023-24, Item No:-13.50.1, Page No:-125, Vol-2)							
	(CSR 2023-24, Item No:-13.50.1, Page No:-125, Vol-2)							
	Basic rate		140.00					
	Area weightage 3%		4.20					
	Total Amount=		144.20					
		14	2.00			28.00		
				Total Qty =	28.00	r.mtr	144.20	4037.60
8	Providing PVC ringite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. complete For PVC pipes 110mm dia., 6 kg/sqcm & class 3 (P.No 113 I.No.10.1.7 C S.R2023-24,VOL-5)							
	(P.No 113 I.No.10.1.7 C S.R2023-24,VOL-5)							

	Basic rate		411.00	mtr				
	Area weightage 3%		12.33					
	Total Amount=		423.33					
	for UGD Pipeline	14	2.50	-	-	35.00		
				Total Qty =	35.00	Mtr	423.33	14816.55
9	Providing & fixing electro fusion saddle comply with BS EN12201 -3:2011, PN-12.5 rating and food grade raw material as per BS 6920 with material of construction PE 80 or PE 100 and colour of fitting - Blue/Black for water applications, EF tapping saddle is V-Regarding type. Designed to fuse at a fusion voltage of 40 volt AC. EF tapping saddle shall have moulded SS/Brass metal female threaded outlet. EF tapping saddle is fused by using a top loading pillar type pressure exerting 1500N (150 kg apprx.) top load on EF saddle. Fusion time is 170 secs and cooling time is 10mins, Exerted pressure should be removed after completing the 10mins cooling time. 63x20,75x20,90x20,110x20,140x20 etc. complete electrofusion saddle (CSR 2023-24, Item No:-9.24, Page No:-110, Vol-5)							
	(CSR 2023-24, Item No:-9.24, Page No:-110, Vol-5)							
	Basic rate		350.00					
	Area weightage 3%		10.50					
	Total Amount=		360.50					
		14				14.00		
				Total Qty =	14.00	nos	360.50	5047.00
10	Filling approved earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. (P.No:7, I.No:1.11 of KPWD Common S.R Vol-I)							
	(P.No:7, I.No:1.11 of KPWD Common S.R Vol-I)							
	Basic rate=		433.00					
	Area weightage 3%=		12.99					
	Total Amount=		445.99					
		2	60.00	0.075	0.70	6.30		
		4	6.00	0.075	0.70	1.26		
				Total Qty =	7.56	cum	445.99	3371.68
	UGD							
1	Dismantling of Flexible pavements and disposal of dismantled materials and stacking serviceable and unserviceable materials separately. By Mechanical Means Bituminous course (P-12, I-2.18, II As per CSR 2023-24 Vol-3)							
	Basic rate=		322.00					
	Area weightage 3%=		9.66					
	Total Amount=		331.66					
	For pipe line 200mm	1	100.00	1.00	0.075	7.50		
	Manhole 2m	2	1.80	1.80	0.075	0.49		
				Total Qty =	7.99	cum	331.66	2648.64
2	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work In all kinds of soils Depth upto 3 m (P.No:8, I.No:1.14.1 of KPWD Common S.R Vol-I)							
	Basic rate=		102.00					
	Area weightage 3%=		3.06					
	Total Amount=		105.06					
	For pipe line 200mm	1	100.00	1.00	2.00	200.00		
	Manhole 2m	2	1.80	1.80	2.00	12.96		
				Total Qty =	212.96	cum	105.06	22373.58

3	Supplying UPVC FOAM CORE pipes conforming to IS 16098 P-1 2013 with latest amendments ended with integral sockets with ISI mark and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type, with all labour, lead & lifts, including encasing the pipes around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (contractor will make his own arrangements for procuring water for testing) for Pipes of SN8 Self Fit - 200mm dia...(P-114, I-10.3.4as per CSR 2023-24 Vol-5)							
	Basic rate=		890.00					
	Area weightage 3%=		26.70					
	Total Amount=		916.70					
	Pipeline 200mm dia	1	100.00	--	--	100.00		
				Total Qty =		100.00	Rmt	916.70
								91670.00
6	Providing and constructing of Machinehole chambers conical in shape at top with CC 1:3:6 foundation using 40mm and down size graded metal of approved quality and with an offset of 0.15m around the chamber and brick masonry in C.M 1:4 plaster with bricks of approved quality and CM plaster 1:3 proportion 12mm thick inside and outside except for the conical surface outside where the thickness of plaster shall be 20 mm thick, with 1 to 6 slope in the concrete towards the central drain, finished smooth and fixing of pipes in CC 1:2:4 with graded metal of 20 mm and down size including supplying and fixing SFRC Machinehole frame and cover conforming to IS 12592(Part-I): 1988 & IS 12592(Part-II):1991 with latest amendments in CC 1:2:4, supplying and fixing of plastic foot steps staggered at 30cms apart as directed, watering, curing, barricading, danger lighting, pouring tar over M.H. frame and cover, cost of tar, shoring, strutting, dewatering, engraving Machinehole No. on the inner and outer conical surface etc. as per the drawing with all lead and lift for various diameters and depths noted below. Constructing Table Moulded Bricks Machinehole 1.2 m internal dia. , 2.0m depth & Heavy duty SFRC cover & frame(P.No 204, I.No.16.46.2 of KPWD CSR2023-24 Vol 5)-2.00 deep							
	Basic rate=		47106.00					
	Area weightage 3%=		1413.18					
	Total Amount=		48519.18					
	Manhole-2m	2	--	--	--	2.00		
						2.00	Nos	48519.18
								97038.36
8	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(P.No 7, I.No.1.10 of KPWD CS.R VOL 1)							
	Basic rate=		160.00					
	Area weightage 3%=		4.80					
	Total Amount=		164.80					
	i)For pipeline	1	100.00	1.00	1.80	180.00		
	ii)For Manhole	2	1.80	1.80	1.80	11.66		
				Quantity		191.66		
	Deductions	1	100.00	3.14*(0.20*0.20)/4		3.14		
		2	3.14*(1.2*1.2)/4		1.80	4.07		
			Deductions		7.21			
			Total Qty =		184.46	cum	164.80	30398.35

9	Construction of Embankment by excavating the available approved Gravel/ Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, preading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenances required to complete the work.(P.No 7 I.No.1.8of C S.R 2023-24,vol-1)							
	Basic rate		474.00					
	Area weightage3%		14.22					
	Total Amount=		488.22					
	i)For pipeline	1	100.00	1.00	0.20	20.00		
	iii)For Manhole	2.00	1.8x4	0.30	0.20	1.01		
				Total Qty =		21.01	Cum	488.22
								10256.53
10	Providing, laying, spreading and compacting graded stoneaggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mixplant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course onwell prepared surface and compacting with vibratory roller toachieve the desired density. (P.No 24, I.No.4.17of C S.R 2023-24,vol-3)							
	Basic rate		2559.00					
	Area weightage3%		76.77					
	Total Amount=		2635.77					
	i)For pipeline	1	100.00	1.00	0.20	20.00		
	iii)For Manhole	2.00	1.8x4	0.30	0.20	1.01		
				Total Qty =		21.01	Cum	2635.77
								55372.26
						Sub Total=		847245.40
13	GST-18%							152504.17
14	Miscellanious & Rounding off							250.43
						Grand Total		1000000.00

(Rupees Ten Lakhs Only)

The Provisions made in the estimate are essential and rates adopted as per the approved rates of Common SR KPWD for the year 2023-24,
The area belongs to C.M.C. Limits
The spot has been inspected and the work is necessary.

Assistant/Junior Engineer
C.M.C Chikkamagaluru

Assistant Executive Engineer
C.M.C Chikkamagaluru