

BILL OF QUANTITIES						
DEVELOPMENT OF FOOTPATH IN FRONT OF SCHOLER HOUSE BY COVERING THE OPEN STROM WATER						
S.No.	DSR 2014 (MR ITEM NO)	DESCRIPTION	Qty	UNIT	ESTIMATED	
					RATE	AMOUNT(RS.)
		DSR-2014				
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of campus in side area				
	2.8.1	All Kinds of Soil	900.00	Cum		
	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations 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. (Note: If required the additional quantity of filling material will be used available material with in campus on the same rates no additional cost will be consider for the lifting and filling the same.	300.00	Cum		
	4.4	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.				
	4.4.1	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	63.00	Cum		
	15.58	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	58.00	Cum		

16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	1800.00	Sqm		
16.3	Supplying and stacking at site.				
16.3.1	90 mm to 45 mm size stone aggregate	150.00	Cum		
16.3.2	63 mm to 45 mm size stone aggregate	415.00	Cum		
16.3.9	Good earth 30mm	250.00	Cum		
16.40	Laying spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening/binding material to fill up interstices of coarse aggregate, watering and compacting to the required density.	815.00	Cum		
16.26	Surface dressing on new surface in two coats with bitumen of grade VG - 10 of approved quality using 1.8 kg of bitumen per sqm with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface for firstcoat and 1.1 kg. of bitumen per sqm with 1.00 cu. metre of stone chippings 11.2 mm nominal size per 100 sqm of road surface for second coat, including consolidation of each coat separately with road roller of 6 to 8 tonne capacity etc. complete.	750.00	Sqm		
16.29	Surface dressing one coat on old surface with bitumen of specified grade at the rate of 1.22 kg/ sqm of surface area with 1.10 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete :				
16.29.1	Using bitumen emulsion (minimum 50% bitumen content-RS grade conforming to IS : 8887)	13471.00	Sqm		

16.31	Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
16.31.1	With rapid setting bitumen emulsion				
16.31.1.1	On W.B.M / W.M.M. @ 0.4kg/sqm	750.00	Sqm		
16.31.1.2	On bituminous surface @ 0.25kg/sqm sqm 10.10	14221.00	Sqm		
16.33	2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).				
16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	14221.00	Sqm		
16.40	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	14571.00	Sqm		
16.49	Making bell mouth opening / entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C. / S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement : 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete	35.00	each		

	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-Charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-Charge).	124.92	Cum		
5	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.				
5	16.7.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	4000.00	Mtr		
	16.12	Dry brick pitching half brick thick in drains including supply of bricks and preparing the surface complete:				
	16.12.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	63.00	Sqm		
	16.93	Providing and placing in position 100mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes,of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways, neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick, 100mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage ,all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	648.00	Sqm		
	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	19.6.5	450mm dia. R.C.C. Pipe	285.00	Mtr		

	19.28	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design :				
	19.28.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10.00	each		
		Non-DSR				
	NS - 1	Providing and laying 60mm thick factory made cement concrete interlocking grass grid paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	804.00	Sqm		
		Total of (DSR-2014)				
		Total of (Non-DSR)				
		Grand Total				