

CONSTRUCTION OF NEW OP BLOCK AND WARD BUILDING FOR INSTITUTE OF MENTAL HEALTH & NEURO SCIENCES (IMHANS)- PHASE II AT MEDICAL COLLEGE, KOZHIKODE

Part 1B Construction of Approach Road

SL No	Description	Unit	Quantity	Rate (Rs.) in figures and words	Amount (Rs.)
B	ROAD WORK				
I	SUB HEAD I - EARTH WORK				
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	800.00		
2	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, with all lead and lift as per the direction of engineer - For all kinds of soil	cum	1350.00		
3	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 50 m. All kinds of soil.	Cum	365.00		
II	SUB HEAD - II - PLAIN CEMENT CONCRETE				
4	Cement concrete(Cast-in-situ) Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum	48.00		
5	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor,etc., up to floor five level, excluding the cost of centering, shuttering and finishing 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Cum	90.00		

SL No	Description	Unit	Quantity	Rate (Rs.) in figures and words	Amount (Rs.)
6	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	5.00		
III	SUB HEAD - III - REINFORCED CEMENT CONCRETE				
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor V level including cost of centering, shuttering, finishing and excluding cost of reinforcement.	Cum	17.00		
8	Reinforcement for RCC works including straightening, cutting, bending, placing in position and binding all complete. Thermo - Mechanically treated bars (Using Vizac, Tata or SAIL)	Kg	1700.00		
IV	SUB HEAD - IV- STONE WORK				
9	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	265.00		
V	SUB HEAD - V -Road Work				
10	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment	cum	1050.00		
11	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2 of MoRTH specification	cum	1450.00		

SL No	Description	Unit	Quantity	Rate (Rs.) in figures and words	Amount (Rs.)
12	Supplying and stacking at site 63 mm to 45 mm size stone aggregate.	cum	325.00		
13	Supplying and stacking at site 53 mm to 22.4mm size stone aggregate.	cum	325.00		
14	Supplying and stacking at site good earth	cum	115.00		
15	Supplying and stacking at site Stone screening 13.2 mm nominal size (Type A).	cum	60.00		
16	Supplying and stacking at site Stone screening 11.2 mm nominal size (Type B).	cum	60.00		
17	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 .	cum	648.00		

SL No	Description	Unit	Quantity	Rate (Rs.) in figures and words	Amount (Rs.)
18	Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom. With rapid setting bitumen emulsion. On W.B.M / W.M.M. @ 0.4kg/sqm	sqm	3225.00		
19	2 cm premix carpet surfacing with 1.8 cum and 0.90 cum of stone chippings of 13.2 mm size 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).With paving Asphalt grade VG - 30 with no solvent	sqm	3225.00		
20	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90cum of stone aggregate of 6.7 mm size (Passing 11.2mm sieve and retained on 2.36mm sieve) per 100 sqm of road surface including rolling and finishing with power road roller all complete.	sqm	3225.00		
21	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	Sqm	400.00		
22	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 5mm), 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	cum	75.00		

SL No	Description	Unit	Quantity	Rate (Rs.) in figures and words	Amount (Rs.)
23	Providing and applying 2.5mm thick road marking strips (retro-reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour ,T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	sqm	25.00		
	Total				