

**NATIONAL GAMES SECRETARIAT  
TENNIS COURTS AT KUMARAPURAM, THIRUVANANTHAPURAM  
SPECIFICATION AND SCHEDULE OF QUANTITIES**

**Section - 8**

SI.No	Description Of Items	Unit	Quantity	Rate(Rs)	Amount(Rs)
	<b>SH :1 EARTHWORK</b>				
1.01	Earth work excavation in ordinary soil for foundation, trenches, grade beams etc. including strutting, shorting and packing cavities wherever required and getting out the excavated earth and then returning the soil as required in layers.	cum	54.00		
	<b>TOTAL OF SUB HEAD -1.0</b>				
	<b>(SH: - 2.0 - CONCRETE WORK)</b>				
2.01	Providing and laying cement concrete of specific grade properly mixed and consolidated with hand rammers, including cost and conveyance of all materials, labour, curing, lead lift , etc. complete for all work up to plinth levels as directed by Engineer- in-Charge.	cum			
2.01.01	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	4.00		
2.01.02	1:2:4 (1 Cement : 2coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	15.00		
2.02	Extra for providing and mixing water proofing liquid in cement concrete work, masonry work, plastering etc in the proportion recommended by the manufacturers including cost and conveyance of all materials, labour, curing, lead lift , etc. complete as directed by Engineer-in-Charge at all levels.	ltr	1.00		
	<b>TOTAL OF SUB HEAD -2.0</b>				
	<b>(SH: - 3.0 - R.C.C. WORK)</b>				
3.01	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M-25 grade cement concrete for reinforced cement concrete using cement content as per approved design mix including pumping of concrete to site of laying but, excluding the cost of centering, shuttering, finishing and reinforcement including admixtures in recommended proportion (as per IS 9103) to accelerate,retard setting of concrete to improve workability without impairing strength and durability as per direction of Engineer-in-Charge .Cement content considered in this item is @ 330 kg/cum				
	All work upto plinth level.	cum	21.00		
3.02	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding with 16 gauge GI binding wire etc complete including cost, conveyance, lead, lift of all materials for all types of RCC works <b>up to plinth level</b> as per drawing/specification and as directed by Engineer-in-Charge at all levels.				
	Thermo-Mechanically Treated bars	kg	1680.00		
3.03	Centering and shuttering including strutting, propping etc. and removal of form for :				
3.03.01	Edges of slab and breaks in floors and walls under 20 cms wide	m	142.00		

SI.No	Description Of Items	Unit	Quantity	Rate(Rs)	Amount(Rs)
3.03.02	Walls of (any thickness)including attached pilasters butteresses plinth and string course etc.	sqm	210.00		
	<b>TOTAL SUB HEAD-3.0</b>				
	<b>(SH: - 4.0 - FINISHING WORK)</b>				
4.01	12mm cement plaster of mix 1:4 (1 cement : 4 fine sand)including cost and conveyance of all materials, labour charges, scaffolding, sundries etc complete as directed by the Engineer in charge at all levels.	sqm	250.00		
	<b>TOTAL OF SUB HEAD-4.0</b>				
	<b>(SH: - 5.0 - SUB BASE WORK)</b>				
5.01	Construction of granular sub-base of spread thickness 100 mm compacted to 75 mm by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401.	sqm	2690.00		
5.02	Providing, laying, spreading and compacting 100 mm thick layer graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	sqm	2690.00		
5.03	Providing and laying 50mm thick layer of dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects.	sqm	2690.00		
5.04	Providing and laying 25mm thick layer of bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects	sqm	2690.00		
	<b>TOTAL OF SUB HEAD - 5.0</b>				
	<b>(SH:6.0 - FLOORING WORK)</b>				
6.01	Cleaning the base surface, crack filling and levelling the surface with suitable acrylic surface and levelling compound, application of one primer coat, one layer of resurfacer, one layer of heavy cushion system, two layers of fine cushion system followed by three coats and game line marking to a total thickness of approx. 4.5 mm all as per ITF (International Tennis Federation) standard and quality . The rate includes cost of all materials, labour and conveyance	sqm	1150		
	<b>TOTAL OF SUB HEAD - 6.0</b>				

SI.No	Description Of Items	Unit	Quantity	Rate(Rs)	Amount(Rs)
	GRAND TOTAL				