

SCHEDULE**Name of Work:- Construction of a Synthetic Turf for new Tennis Ground at NIT Rourkela.**

Sl.No.	Item	Unit	Quantity	Rate	Amount
1	Earthwork in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth 1.5m in width as well as 10 sq.m. on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed (all kinds of soil).	Cum	375.00		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20Cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50M and lift upto 1.5M	Cum	160.00		
3	Providing & laying for admixing sand & moorum as sub base at Shoulder.	Cum	75.00		
4	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water of OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layer with paver in subbase / base course and compacting with vibratory roller to achieve the desired density.	Cum	120.00		
5	Providing & applying primer coat with Bitumen emulsion on prepared surface of granular base including cleaning of road surface & spraying primer at the rate of 0.60kg/sqm. Using mechanical means.	SqM.	570.00		
6	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	Sq.M	570.00		
7	Providing and laying semi dense bituminous concrete 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 @ 4.5 to 5 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. 508 complete in all respects	Cum.	30.00		

8	Providing and constructing brick drain as per standard slope and design with a layer of 10 cm thick and 75 cm. wide cement concrete 1:4:8 and K.B. Brick work in cement mortar (1:6), 23 cm. width on either side with depth 7.5 cm to 30cm including cement plaster(1:6) with cement punning. (section of Drain 250x300 mm) etc complete in all respect as per direction of Engineer In charge.	RM'	160.00		
9	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50mm including strengthening with 2mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4mm.	Sq.M	480.00		
10	Sand filling in foundation and trenches as per drawing & technical specification	Cum	6.00		
11	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing , balcony railing and staircases railing including applying priming coat of approved steel primer				
	ERW Tube	Kg	6000.00		
12	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS 13592 Type A including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion (i) Single socketed pipes				
	100mm diameter	RM	25.00		
13	15mm cement plaster of mix 1:4 (1 cement: 4 Sand) over rough side of half brick work	Sq.M	160.00		
14	Applying one coat of cement primer of approved brand and manufacturer on wall surface				
	Cement primer	Sq.M	160.00		
15	Finishing walls with premium acrylic smooth exterior paint with silicone additive of required shade				
	New work (two or more coat applied @1.43kg/10 Sq.M) over and including base coats of water proofing cement paint applied @ 2.2 Kg/10 Sq.M	Sq.M	160.00		

16	Providing and fixing as per DAVIS cup standard NET posts and NET of approved quality (of black coloured synthetic net manufactured in a synthetic polymer such as polyethylene for cricket practice of twine diameter ranging from 1.8mm - 2.0mm or more thick syhtetic thread of approved make heavy type with a hole upto 50 Sqmm knotted nets and of UV stabilized and rot proof complete) and design complete as per manufacturers specification etc including painting and installation with CC grouting of 1:2:4 all complete as per direction of Engineer Incharge	Each	2.00		
17	Supplying FIH approved global catagory synthetic Tennis surface with polethetlene fiber and cast in situ shock pad laying jointing & fixing the same on the Bituminous subbase with rubberrized under layer as per the FIH requirements and the pasting of synthetic grass as per specification of the global catagory FIH competition including all making on the surface as per FIH rules and standard etc. complete as per the instructions of the engineer in charge.	Sq.M	500.00		
				Total =	