

**International centre for Theoretical Sciences.
Tata Institute of Fundamental Research**

Name of work : Providing and constructing external Developmental works/Hardscape work for Discussion court in ICTS-TIFR Campus, Shivakote village, Bengaluru north.

Schedule of Quantities

Item no	Description	Unit	Qty	Rate	Amount
1	Earth work excavation over areas by mechanical means (Hydraulic excavator)/ manual means to required profile, level, grade, camber etc. in all soils as mentioned below (exceeding 30 cm in depth, 1.50 m in width as well as 10 sqm on plan area) including dressing of excavated area, refilling the low spots/ areas with approved excavated materials in layers not exceeding 150 mm watering, consolidation to obtain 90% proctor density etc. all complete as per specifications, drawings & as directed by the Engineer in Charge				
a	For all soil other than soft rock and hard rock.	Cum	1210		
2	Disposal of debris/excavated earth/ stones chipping/ broken concrete/ roofing materials all types organic and inorganic materials etc., outside the campus at designated location as approved by local statutory authorities. Including loading, unloading and transportation at all leads and lifts in an surrounding area of 17 acres etc., complete and as directed by Engineer in charge. Note: Payment shall be made as per the actual measurement of tractor/truck load up to body height after deducting 20% for voids.	Cum	360		
3	Filling in low lying areas, pathways, parking etc. with selected excavated earth selected earth from nearby transport including all leads, lifts, loading, unloading, borrow areas outside the campus by mechanical stacking, levelling, spreading in layers not exceeding 150 mm thick, breaking clods, watering, consolidation to obtain 90% proctor density etc. all complete as per specifications, drawings & as directed by the Engineer in Charge. Note: Tractor/Truck volume after deducting 20% for voids will be considered for payment.				
a	With earth from outside by mechanical transport with all lead.	Cum	970		
4	Plain Cement Concrete of following grade conforming to IS 456:2000 at all levels, using 20mm maximum size and down graded aggregate, including machine mixing, conveying, placing in position, mechanical consolidation, finishing, curing , formwork etc. complete as per specification, drawings and as directed by the Engineer in Charge.				

a	PCC of grade 1:3:6	Cum	4		
b	PCC of grade 1:4:8	Cum	64		
c	PCC sub base 1:5:10	Cum	15		
5	Providing and Laying 230mm dry rubble stone hard core soling consolidated thickness in sub base to floor and driveway subgrade with 150-90mm size stone aggregate, stones scree ding of 12.5mm max. size in layers as specified below, each layer of 150mm thick laid loose and consolidated to 115mm thickness including breaking stone if required, screening, sorting, spreading to regular line, level, template and supplying and blinding with stone dust, watering, consolidating including cost labour, finishing to proper gradient, camber and including mechanical vibration etc. complete as per specifications & as directed by the Engineer-in-Charge.	Sqm	880		
	Quoted rate shall be inclusive of all leads and lift.				
6	Providing and laying precast form finish chamfered kerb M30 grade of M/s. Besant Betons or at par quality of approved manufacture of size 600mm length x 375mm high x 150mm thick as shown in the drawing with laid vertically/ horizontally for parking approach etc., laid over 20mm thick CM 1:4 with a gap of 6-8mm and pointing the gap with 1:4 CM neatly finished with cement punning matching with kerb etc., sub-base mortar, pointing etc., complete as detailed in drawing and as directed by Engineer-in-charge.	RM	980		
7	Supply and installing Rectangular block/grey pavers of M/s Basant Baton or equivalent elganza grey/black colour or as approved sizes with min 60mm thick concrete paver blocks for heavy traffic as detailed on the plans including all labour, materials, testing, submittals, tools and equipment necessary to install the blocks to the lines and grades shown on the plans including any incidentals thereto etc. complete all as per specifications, drawing and as directed by the Engineer in charge.	Sqm	880		
	i)The paver blocks shall be with different dimensions with minimum load bearing capacity of 40 MT.				
	ii) The interlocking concrete block should be of crushing strength not less than 250 Kg/Sq.Cm, approved type (60 + or - 3mm thick).				
	iii) Additional cement mortar required for end joints etc., to maintain, line, level, camber, gradient etc. shall be included in quote rates.				

8	Providing and constructing at all levels concrete block walls with CEMENT CONCRETE SOLID BLOCKS using 400x200x200/400x150x200mm with approved quality and confirming to a crushing strength of not less than 50Kgs/Sqcms in CM 1: 6 to correct line, level and plumb including racking out joints, curing scaffolding, at all levels/ floors , lead, lifts and height for walls , platforms and packing the junction of wall with ceiling with 1:3:6 mix and plant required for the execution of the work etc. Complete as per specifications, & as directed by EIC.	Cum	20		
9	Supply and filling 20mm -25mm uniform size aggregate for gravel bed to a depth of 75mm thick laid on 50mm thick cement concrete bed using 20mm max size aggregate etc. complete all as per specifications, drawing and as directed by the Engineer in charge.	Cum	26		
	Note: 1.Concrete will be paid under relevant item.				
	2.Aggregate size less than 20mm will be rejected for carrying the work.				
10	Providing and applying 20mm thick external and 15mm internal thick plaster of following finish in CM 1:4 (1 cement :4 river sand) for seaters & planter boxes, columns etc. including all lead & lift and curing etc. complete all as per specifications, drawing and as directed by the Engineer in charge. Note : Plaster finish shall be neat coat of cement/Brush/smooth buffed/any approved finish for all plaster works whereeve specified.				
a	Finished rough external plastering for chambers seaters & planter boxes etc., with neat cement coat.	Sqm	206		
11	Providing and laying of 75mm uniform thick undressed machine cut Sira stone slabs layed on 75mm thick sand bed of following sizes laid in a crazy pattern/ radial pattern with 50mm thick grass joints as per design including transportation, cutting, labour, wastage, acid wash etc. complete all as per specifications, drawing and as directed by the Engineer in charge.				
	a) Random length of max. 2100mm & min. 600mm x 600mm wide.	Sqm	50		

12	Providing and laying 20 mm uniform thick machine cut Sira stone slabs of following size in 20mm thick CM 1:4 with paper joints as per design including transportation, cutting, labour, wastage, acid wash etc. complete all as per specifications, drawing and as directed by the Engineer in charge.				
a	Laying polished on all exposed surfaces including edge bull nosing/chamfering on grey Sira stone of size 1500x450mm and 1200mm x 1200mm.	Sqm	45.00		
13	Providing fixing lowering and laying RCC spun pipes (class NP3 of ISI) including making holes in masonry/from cable trench to ground, road crossing , concrete work wherever required including colours and jointing with C.M 1:4, plugging the ends temporarily with suitable materials till handing over etc., complete all as directed by the EIC. Spare space of hume pipes after cable laying and spares hume pipes shall be sealed properly with fireproof materials.				
a	150 mm dia.	RM	100.00		
			Total Rs.		

- Note:**
1. Rate inclusive of all WCT, Labour cess and taxes if any.
 2. Water and electricity will be provided by department free of cost.
 3. Quoted rate shall hold good for cutting the stones to any geometric shape in plain and curve and wastage at all lead and lift etc.,.
 4. Quoted rate shall be inclusive of removing all debris generated and disposing at a designated place as per the statutory authorities.
 5. Department reserve the rights to delete any item without assigning any reason.

(Rupees

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Contractor's Seal with Signature