

Name of Work :- Development of Permanent Campus of IIM Udaipur					
Subject:- bill of Quantities for Horticulture and Landscaping works					
Sr. No.	Quantity	Description	Unit	Rate	Amount
1.0	856.00	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. (a) Ordinary rock	Cum		
2.0	214.00	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. (b) Hard rock (blasting prohibited)	Cum		
3.0	8226.00	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m 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 soils as directed, within a lead of 50 m. (a) Ordinary rock	Cum		
4.0	2057.00	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m 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 soils as directed, within a lead of 50 m. (b) Hard rock (blasting prohibited)	Cum		
5.0	3693.00	Carriage of materials by mechanical transport including loading, unloading and stacking earth. Earth upto 1km	Cum		
6.0	2912.00	Carriage of materials by mechanical transport including loading, unloading and stacking excavated rock. Excavated rock upto 1km	Cum		
7.0	10828.00	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead with in 50 m Lead and lift up to 1.5 m.	Sqm		
8.0	148.00	Providing and fixing up to floor five level precast cement concrete solid block in any shape or pattern as per the drawing, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete : 1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size) for planter	Cum		
9.0	5925.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto and above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more for planter.	kg		
10.0	69.00	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand).	Cum		
11.0	301.00	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)	Sqm		
12.0	30.00	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm		
13.0	301.00	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	Sqm		
14.0	3694.00	Preparation of beds for hedging and shrubbery by excavating 60 cm deep and trenching the excavated base to a further depth of 30 cm, refilling the excavated earth after breaking clods or of good soil and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50 m, lift up to 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately)	Cum		
15.0	7722.00	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) : Holes 1.2 m dia and 1.2 m deep	Nos		
16.0	2980.00	Grassing with selection No. 1 grass including watering and maintenance of the lawn for 60 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and earth shall be paid for separately). In rows 5 cm apart in both directions	Sqm		
17.0	2038.00	Supplying, Stacking & Grassing with Paspalum notatum (PANO) grass including watering and maintenance of the lawn for 60 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and earth shall be paid for separately). In rows 5 cm apart in both directions	Sqm		
18.0	191.00	Supplying, Stacking & Grassing with Zoysia japonica tinuifolia (ZOJA.T) grass including watering and maintenance of the lawn for 60 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and earth shall be paid for separately). In rows 5 cm apart in both directions	Sqm		
19.0	2980.00	Supplying & Stacking of Selection No.1 Grass at site fresh & free from weeds having proper roots in green including loading, unloading, carriage and all taxes paid etc.and as per direction of officer in charge.	Sqm		
20.0	5103.00	Supplying and stacking of good earth at site including royalty and carriage upto 5 km complete (earth measured in stacks will be reduced by 20% for payment). (Good earth shall consist of a free draining organic soil from horizons less than 300mm from the original surface, of a workable crumbly and lump free loamy character and shall contain no grass or weed growth of any kind or other foreign material or stones exceeding 25mm in diameter. Total stone content shall be no greater than 5% by volume. A 1 litre sample with back up soil test data is required before supply, to be approved by EIC. Soil should conform to the following parameters: pH 5.5 - 7.8, Electrical conductivity 1:2.5 (w/v), Soil-water extract not exceeding 1500 micromho/cm, Soil texture Sand (0.05 - 2.00mm) Max. 75% Min. 20%, Silt (0.002 - 0.05mm) Max. 60% Min. 5%, Clay (less than 0.002mm) Max. 30% Min. 5%.)	Cum		
21.0	2069.00	Supplying and stacking of well decayed cattle manure at site including royalty and carriage upto 5 k.m. lead complete (cattle manure measured in stacks will be reduced by 8% for Payment). (Manure shall be well composted, dried, well screened good quality in powdered form. Manure, shall be free from soil clods, fresh mung grass, and dry. Sample will be approved by Engineer in charge.)	Cum		

Sr. No.	Quantity	Description	Unit	Rate	Amount
22.0	7722.00	Staking of trees, palms and large shrubs using quadrapod staking made of 4 nos Bamboo 25 mm dia 2.5 metre long, fixed 0.3m in the soil and joined at 2/3 height of plant stem using jute rope, fixed to plant using rubber sheath; plant stem to be covered with gunny / jute cloth at fixing point to prevent damage, complete including supply of all material, labour and equipment, upto any lead and lift as directed by EIC	Nos		
23.0	438.00	Providing & fixing of White River (Stone) Pebbles size of 2" to 2.50" dia in natural colour at site of work including loading, unloading, carriage and all taxes paid etc.and as per direction of officer in charge.	per Quintal		
24.0	361.00	Supply of Shrubs - well developed, well branched - 3-4 branches each having 4-5 leaves, preferably in bloom, in polybag of 30x20cm size, disease free and development (height 0.75-0.9m) Shrubs are woody perennials of generally multi stemmed and bushy habit ranging from 3 - 4.5m down to 500mm height. Shrubs shall have no less than three main stems and shall be well balanced and bushy, with strongly developed fibrous root systems, and shall be pruned in advance as required to achieve the specified height tolerances. Branches shall break from the base of the plant just above the root collar, and shall be well furnished with leaves right down to ground level. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC Botanical Name (CODE) [Height metres] Acalypha hispida (ACHI) [0.6]	Nos		
24.001	260.00	Acalypha wilkesiana 'red' (ACWI.R) [0.6]	Nos		
24.002	391.00	Acalypha wilkesiana tahiti (ACWI.T) [0.6]	Nos		
24.003	432.00	Adenium obesum (ADOB) [0.3]	Nos		
24.004	80.00	Agave americana (AGAM) [0.6]	Nos		
24.005	58.00	Aloe abyssinica (ALAB) [0.6]	Nos		
24.006	343.00	Allamanda cathartica (ALCA) [0.6]	Nos		
24.007	65.00	Angelonia augustifolia (ANAU) [0.45]	Nos		
24.008	526.00	Bambusa ventricosa (BAVE) [1.2]	Nos		
24.009	17.00	Bambusa ventricosa Dwarf (BAVE.D) [1.2]	Nos		
24.010	820.00	Bambusa vulgaris (BAVU) [1.2]	Nos		
24.011	95.00	Brya ebenus (BREB) [0.9]	Nos		
24.012	34.00	Cassia auriculata (CAAU) [0.9]	Nos		
24.013	185.00	Calliandra brevipes (CABR) [0.9]	Nos		
24.014	33.00	Canna dwarf red (CADW.R) [0.3]	Nos		
24.015	33.00	Canna dwarf yellow (CADW.Y) [0.3]	Nos		
24.016	1047.00	Canna indica Red (CAIN.R) [0.45]	Nos		
24.017	1138.00	Canna indica Yellow (CAIN.Y) [0.45]	Nos		
24.018	1147.00	Caesalpinia pulcherrima Flava (CAPU.F) [0.9]	Nos		
24.019	878.00	Caesalpinia pulcherrima (CAPU) [0.9]	Nos		
24.020	22.00	Catharanthus rosea (CARS) [0.3]	Nos		
24.021	17.00	Catharanthus rosea Pendula (CARS.P) [0.3]	Nos		
24.022	202.00	Coleus blumei brilliancy (COBL) [0.45]	Nos		
24.023	22.00	Conocarpus lancifolius (COLA) [0.9]	Nos		
24.024	718.00	Codiaeum variegatum (COVA) [0.6]	Nos		
24.025	339.00	Crinum asiaticum (CRAS) [0.6]	Nos		

Sr. No.	Quantity	Description	Unit	Rate	Amount
24.026	446.00	Crinum menehune (CRME) [0.45]	Nos		
24.027	2538.00	Cymbopogon citratus (CYCI) [0.45]	Nos		
24.028	11.00	Dianella tasmonica (DITA) [0.3]	Nos		
24.029	362.00	Duranta Lorentzii (DULO) [0.6]	Nos		
24.030	88.00	Duranta lorentzii goldii (DULO.G) [0.6]	Nos		
24.031	1126.00	Duranta repens (DURE) [0.6]	Nos		
24.032	17.00	Duranta repens variegata (DURE.V) [0.6]	Nos		
24.033	594.00	Echeveria elegans (ECEL) [0.3]	Nos		
24.034	802.00	Euphorbia cotinifolia (EUCCO) [0.6]	Nos		
24.035	478.00	Euphorbia leucocephala (EULE) [0.6]	Nos		
24.036	422.00	Euphorbia Milii (Red) (EUMI.R) [0.3]	Nos		
24.037	74.00	Euphorbia Milii (White) (EUMI.W) [0.3]	Nos		
24.038	736.00	Euphorbia Milii (Yellow) (EUMI.Y) [0.3]	Nos		
24.039	708.00	Euphorbia pulcherrima (EUPU) [0.45]	Nos		
24.040	70.00	Furcraea gigantea (FUGI) [0.9]	Nos		
24.041	467.00	Gardenia jasminodes (GAJA) [0.6]	Nos		
24.042	453.00	Hamelia patens (HAPA) [0.45]	Nos		
24.043	587.00	Hymenocallis littoralis (HYLI) [0.6]	Nos		
24.044	60.00	Ixora coccinea 'pink' (IXCO.P) [0.45]	Nos		
24.045	1064.00	Ixora chinensis Red (IXCH.R) [0.45]	Nos		
24.046	130.00	Ixora Lutea (IXLU) [0.45]	Nos		
24.047	110.00	Ixora rosea (IXRO) [0.45]	Nos		
24.048	17.00	Ixora singaporensis (IXSI) [0.45]	Nos		
24.049	11.00	Ixora singaporensis aurea (IXSI.A) [0.45]	Nos		
24.050	17.00	Ixora Species (IXSP) [0.45]	Nos		
24.051	104.00	Jatropha integerrima (JAIN) [0.6]	Nos		
24.052	22.00	Kopsia fruticosa (KOFR) [0.9]	Nos		
24.053	200.00	Manihot esculenta variegata (MAES) [0.9]	Nos		
24.054	2533.00	Murraya exotica (MUEX) [0.9]	Nos		
24.055	1032.00	Pennisetum rubrum (PERU) [0.6]	Nos		
24.056	1446.00	Pennisetum setaceum (PESE) [0.6]	Nos		

Sr. No.	Quantity	Description	Unit	Rate	Amount
24.057	494.00	Pedilanthus tithymaloides (PETI) [0.45]	Nos		
24.058	1257.00	Rhoeo spathacea (RHSP) [0.3]	Nos		
24.059	400.00	Russelia equisetiformis (RUEQ) [0.45]	Nos		
24.060	11.00	Sansevieria green (SANS.G) [0.3]	Nos		
24.061	33.00	Sansevieria trifasciata 'laurentii' (SATR.LA) [0.3]	Nos		
24.062	318.00	Sansevieria trifasciata hahnii (SATI.H) [0.1]	Nos		
24.063	196.00	Sansevieria trifasciata Yellow (SATR.Y) [0.3]	Nos		
24.064	352.00	Sansevieria yellow (SANS.Y) [0.3]	Nos		
24.065	28.00	Sansevieria Parva (SAPA.W) [0.3]	Nos		
24.066	544.00	Schefflera arboricola (SCAR) [0.6]	Nos		
24.067	22.00	Schefflera Eleptica (SCEL) [0.6]	Nos		
24.068	1334.00	Stachytarpheta indica (STIN) [0.6]	Nos		
24.069	477.00	Tecomaria capensis (TECA) [0.9]	Nos		
24.070	11.00	Tabernaemontana coronaria (TACO) [0.9]	Nos		
24.071	266.00	Tecoma gaudi-chaudi (TEGA) [0.9]	Nos		
24.072	443.00	Tecom grandiflora (TEGR) [0.9]	Nos		
24.073	443.00	Tecoma grandis (TEGR) [0.9]	Nos		
24.074	130.00	Tecoma stans (TEST) [0.9]	Nos		
24.075	128.00	Thryallis glauca (THGL) [0.45]	Nos		
24.076	356.00	Thevetia peruviana (THPE) [1.2]	Nos		
24.077	326.00	Turnera ulmifolia (TUUL) [0.6]	Nos		
24.078	1456.00	Verbena tenera purple (VETU.P) [0.45]	Nos		
24.079	101.00	Verbena tenera red (VETU.R) [0.45]	Nos		
24.080	866.00	Verbena tenera white (VETU.W) [0.45]	Nos		
24.081	55.00	Vetiveria zizanioides (VEZI) [0.9]	Nos		
24.082	22.00	Vinca Hybrida (VIHY) [0.45]	Nos		
24.083	11.00	Vinca Pink / rosea (VIPI) [0.45]	Nos		
24.084	11.00	Vinca Purple (VIPU) [0.45]	Nos		
24.085	22.00	Vinca Red / alba (VIRE) [0.45]	Nos		
24.086	132.00	Vinca White (VIWH) [0.45]	Nos		
24.087	33.00	Vinca Minor (VIMI) [0.3]	Nos		

Sr. No.	Quantity	Description	Unit	Rate	Amount
24.088	27.00	Yucca aloifolia (YUAL) [0.9]	Nos		
24.089	214.00	Aglaonema commutatum (AGCM) [0.45m]	Nos		
24.090	50.00	Aglaonema commutatum Treubii (AGCM.T) [0.45m]	Nos		
24.091	69.00	Aglaonema Crispum (AGCR) [0.45m]	Nos		
24.092	98.00	Aglaonema Crispum Katyal (AGCR.K) [0.45m]	Nos		
24.093	37.00	Aglaonema earnesto hybrid (AGEA.H) [0.45m]	Nos		
24.094	29.00	Aglaonema nitidum (AGNI) [0.45m]	Nos		
24.095	48.00	Alocasia lowii Hybrid (ALLW.H) [0.6m]	Nos		
24.096	61.00	Alocasia macrorrhiza (ALMA) [0.6m]	Nos		
24.097	53.00	Allamanda nerifolia (ALNE) [0.6m]	Nos		
24.098	73.00	Alpinia Sandarae (ALSD) [0.6m]	Nos		
24.099	33.00	Alpinia Zerumbet variegata (ALZE.V) [0.6m]	Nos		
24.100	580.00	Alpinia Zerumbet (ALZR) [0.6m]	Nos		
24.101	195.00	Angelonia angustifolia (ANAG) [0.3m]	Nos		
24.102	128.00	Angelonia grandiflora (ANGR) [0.3m]	Nos		
24.103	73.00	Anthurium Veitchii (ANVE) [0.45m]	Nos		
24.104	31.00	Anthurium Wardcqueanum (ANWA) [0.45m]	Nos		
24.105	91.00	Dieffenbachia amoena (DIAM) [0.6m]	Nos		
24.106	81.00	Dieffenbachia Hicolor (DIHI) [0.6m]	Nos		
24.107	79.00	Dieffenbachia jupiter (DIJU) [0.6m]	Nos		
24.108	223.00	Dieffenbachia maculata (DIMA) [0.6m]	Nos		
24.109	270.00	Dieffenbachia Venus (DIVN) [0.6m]	Nos		
24.110	72.00	Dieffenbachia Vesuvius (DIVS) [0.6m]	Nos		
24.111	279.00	Dieffenbachia wilsons delight (DIWI) [0.6m]	Nos		
24.112	39.00	Ficus blackii (FIBL) [0.6m]	Nos		
24.113	39.00	Ficus panda (FIPA) [0.6m]	Nos		
24.114	157.00	Heliconia bihai (HEBI) [0.75m]	Nos		
24.115	22.00	Heliconia caribaea (HECA) [0.75m]	Nos		
24.116	32.00	Heliconia caribaea big red (HECA.R) [0.75m]	Nos		
24.117	171.00	Heliconia Metallica (HEME) [0.75m]	Nos		
24.118	42.00	Ixora chinensis (IXCH) [0.6m]	Nos		

Sr. No.	Quantity	Description	Unit	Rate	Amount
24.119	59.00	Ixora chinensis Yellow (IXCH.Y) [0.6m]	Nos		
24.120	131.00	Maranta Bicolor (MABI) [0.6m]	Nos		
24.121	55.00	Philodendron bipinnatifidum (PHBI) [0.3m]	Nos		
24.122	114.00	Philodendron Ceylon Gold (PHCE) [0.3m]	Nos		
24.123	120.00	Philodendron Domesticum Variegatum (PHDO) [0.3m]	Nos		
24.124	99.00	Philodendron elegans (dark) (PHEL) [0.3m]	Nos		
24.125	113.00	Philodendron Pink Princess (PHPI) [0.3m]	Nos		
24.126	22.00	Philodendron Pittieri (PHPT) [0.3m]	Nos		
24.127	108.00	Stromanthe sanguinea (STSA) [0.3m]	Nos		
24.128	26.00	Tabernaemontana divaricata (TADI) 0.6m	Nos		
25.0	10.00	Supply of Trees - well developed, well branched crown - 4-6 branches each having 4-5 leaves, well developed (Poly bag size - 30"x 30", min. stem diameter 50mm and height as specified) Trees shall be large size nursery grown trees pruned during growth to produce a tight well rounded head and a straight stem clear of leaves or twigs. Trees shall be at least two years old, as certified by the nursery. Trees shall be 70-100 mm circumference stem when measured 1.0m from ground level and shall have a clear straight stem of minimum 1.2m. The head shall be well balanced and rounded and contain at least four main branches with a well-developed secondary branch system and a defined central leader that has not been pruned, giving a minimum overall height of 1.5m at the time of planting. Rootball dimensions : diameter 750mm x 750mm deep minimum. Branching/leaf spread 1.5 - 1.8m diameter. Pruning at the time of removal from the nursery will not be permitted. In dry weather conditions, trees are to be sprayed with approved Anti-transpirant. Trees shall have a strong fibrous root system. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC Botanical Name (CODE) [Height metres] Acacia auriculiformis (ACAU) [1.2]	Nos		
25.001	87.00	Acacia catechu (ACCA) [1.2]	Nos		
25.002	169.00	Acacia chundra (ACCH) [1.2]	Nos		
25.003	258.00	Acacia eburnea (ACEB) [1.2]	Nos		
25.004	39.00	Acacia ferruginea (ACFE) [1.2]	Nos		
25.005	17.00	Acacia leucophloea (ACLE) [1.2]	Nos		
25.006	59.00	Acacia nilotica (ACNI) [1.2]	Nos		
25.007	17.00	Acacia planifrons (ACPL) [1.2]	Nos		
25.008	113.00	Acacia senegal (ACSE) [1.2]	Nos		
25.009	6.00	Adina cordifolia (ADCO) [1.2]	Nos		
25.010	84.00	Aegle marmelos (AEMA) [1.2]	Nos		
25.011	6.00	Ailanthus excelsa (AIEX) [1.8]	Nos		
25.012	11.00	Alangium salviifolium (ALSA) [1.2]	Nos		
25.013	8.00	Albizia odoratissima (ALOD) [1.8]	Nos		
25.014	9.00	Albizia procera (ALPR) [1.8]	Nos		
25.015	61.00	Albizia lebbeck (ALLE) [1.8]	Nos		
25.016	68.00	Alstonia scholaris (ALSC) [2.4]	Nos		

Sr. No.	Quantity	Description	Unit	Rate	Amount
25.017	164.00	Annona squamosa (ANSQ) [1.8]	Nos		
25.018	146.00	Anogeissus latifolia (ANLA) [1.2]	Nos		
25.019	147.00	Anogeissus pendula (ANPE) [1.2]	Nos		
25.020	22.00	Anthocephalus cadamba (ANCA) [1.8]	Nos		
25.021	84.00	Azadirachta indica (AZIN) [2.4]	Nos		
25.022	13.00	Barringtonia acutangula (BAAC) [1.2]	Nos		
25.023	16.00	Bauhinia blakeana (BABL) [1.8]	Nos		
25.024	14.00	Bauhinia racemosa (BARA) [1.8]	Nos		
25.025	6.00	Bauhinia variegata (BAVA) [1.8]	Nos		
25.026	26.00	Bombax ceiba (BOCE) [2.4]	Nos		
25.027	262.00	Boswellia serrata (BOSE) [1.2]	Nos		
25.028	1217.00	Butea monosperma (BUMO) [1.8]	Nos		
25.029	28.00	Callistemon lanceolatus (CALA) [1.2]	Nos		
25.030	6.00	Callistemon viminalis (CAVI) [1.5]	Nos		
25.031	71.00	Cassia fistula (CAFI) [1.8]	Nos		
25.032	9.00	Cassia javanica (CAJA) [1.8]	Nos		
25.033	17.00	Cassia siamea (CASI) [1.8]	Nos		
25.034	6.00	Cassia spectabilis (CASP) [1.5]	Nos		
25.035	12.00	Cordia sebastena (COSE) [1.8]	Nos		
25.036	6.00	Cordia subcordata (COSU) [1.8]	Nos		
25.037	41.00	Crataeva religiosa (CRRE) [1.8]	Nos		
25.038	7.00	Dalbergia latifolia (DALA) [1.2]	Nos		
25.039	95.00	Delonix regia (DERE) [2.4]	Nos		
25.040	29.00	Erythrina Indica (ERIN) [2.4]	Nos		
25.041	34.00	Erythrina variegata (ERVA) [2.4]	Nos		
25.042	9.00	Ficus bengalensis (FIBE) [2.4]	Nos		
25.043	16.00	Ficus glomerata (FIGL) [2.4]	Nos		
25.044	6.00	Ficus microcarpa (FIMI) [2.4]	Nos		
25.045	14.00	Ficus religiosa (FIRE) [2.4]	Nos		
25.046	8.00	Gmelina arborea (GMAR) [1.8]	Nos		
25.047	27.00	Hardwickia binata (HABI) [1.8]	Nos		

Sr. No.	Quantity	Description	Unit	Rate	Amount
25.048	38.00	Holoptelia intergrifolia (HOIN) [2.4]	Nos		
25.049	6.00	Hymenodictyon excelsum (HYEX) [1.2]	Nos		
25.050	146.00	Lagerstroemia parviflora (LAPA) [1.8]	Nos		
25.051	80.00	Lannea coromandelica (LACO) [1.8]	Nos		
25.052	22.00	Limonia acidissima (LIAC) [1.2]	Nos		
25.053	45.00	Mangifera indica (MAIN) [2.4]	Nos		
25.054	117.00	Madhuca longifolia (MALO) [2.4]	Nos		
25.055	30.00	Manilkara hexandra (MAHE) [2.4]	Nos		
25.056	17.00	Manilkara zapota (MAZA) [1.8]	Nos		
25.057	37.00	Millingtonia hortensis (MIHO) [2.4]	Nos		
25.058	38.00	Miliusa tomentosa (MITO) [1.2]	Nos		
25.059	6.00	Mitragyna parvifolia (MIPA) [1.8]	Nos		
25.060	7.00	Morinda tomentosa (MOTO) [1.2]	Nos		
25.061	21.00	Morus alba (MOAL) [1.8]	Nos		
25.062	26.00	Nyctanthes arbor-tristis (NYAR) [1.2]	Nos		
25.063	93.00	Oroxylum indicum (ORIN) [1.2]	Nos		
25.064	60.00	Peltophorum africanum (PEAF) [2.4]	Nos		
25.065	6.00	Peltophorum pterocarpum (PEPT) [2.4]	Nos		
25.066	150.00	Phyllanthus emblica (PHEM/EMOF) [1.5]	Nos		
25.067	216.00	Pithecellobium dulce (PIDU) [2.4]	Nos		
25.068	14.00	Plumeria alba (PLAL) [2.4]	Nos		
25.069	33.00	Plumeria obtusa (PLOB) [2.4]	Nos		
25.070	6.00	Polyalthia longifolia (POLO) [2.4]	Nos		
25.071	7.00	Pongamia pinnata (POPI) [2.4]	Nos		
25.072	393.00	Prosopis cineraria (PRCI) [2.4]	Nos		
25.073	36.00	Psidium guajava (PSGU) [1.8]	Nos		
25.074	11.00	Pterospermum acerifolium (PTAC) [1.2]	Nos		
25.075	8.00	Punica granatum (PUGR) [1.8]	Nos		
25.076	11.00	Putranjiva roxburghii (PURO) [1.8]	Nos		
25.077	7.00	Salix tetrasperma (SATE) [1.2]	Nos		
25.078	14.00	Salvadora persica (SAPE) [1.2]	Nos		

Sr. No.	Quantity	Description	Unit	Rate	Amount
25.079	9.00	Samanea Saman (SASA) [2.4]	Nos		
25.080	39.00	Sterculia foetida (STFO) [2.4]	Nos		
25.081	137.00	Sterculia urens (STUR) [1.2]	Nos		
25.082	78.00	Syzygium cumini (SYCU) [2.4]	Nos		
25.083	36.00	Tabebuia argentea (TAAR) [2.4]	Nos		
25.084	23.00	Tabebuia rosea (TARO) [2.4]	Nos		
25.085	15.00	Tamarindus indica (TAIN) [2.4]	Nos		
25.086	15.00	Tectona grandis (TAGR) [1.8]	Nos		
25.087	47.00	Terminalia arjuna (TEAR) [2.4]	Nos		
25.088	30.00	Terminalia bellirica (TEBE) [2.4]	Nos		
25.089	23.00	Terminalia catappa (TECA) [2.4]	Nos		
25.090	99.00	Wrightia tinctoria (WRTI) [1.8]	Nos		
25.091	409.00	Ziziphus mauritiana (ZIMA) [1.8]	Nos		
26.0	110.00	Supply of Palms - well developed, well developed, disease free (Poly bag size - 18"x 18") Palms shall have heights as either 1.2m-1.5m. For single stemmed palms, the clear trunk height shall be atleast 80% of specified height, and stem girth shall be of dimension normally found for palms for the stem height and species specified. Acceptable tolerances to variations in stem height shall be +200mm or -200mm from the height specified in the Bills of Quantities. The heads of palms shall be well balanced with at least 7 leaves and a healthy growing apical shoot all free from pest and disease. Rootball dimensions shall be 450mm diameter x 450mm depth. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC Botanical Name (CODE) [Height metres] Areca catechu	Nos		
26.001	286.00	Bismarckia nobilis	Nos		
26.002	52.00	Borassus flabellifer	Nos		
26.003	255.00	Caryota urens	Nos		
26.004	93.00	Dyopsis lutescens	Nos		
26.005	28.00	Licuala grandis	Nos		
26.006	74.00	Livistona chinensis	Nos		
26.007	145.00	Phoenix sylvestris	Nos		
26.008	296.00	Rhapis excelsa	Nos		
26.009	26.00	Rhapis humilis	Nos		
26.010	463.00	Rhapis subtilis	Nos		
26.011	108.00	Thrinax parviflora	Nos		
26.012	2.00	Ravenala madagascariensis (RAMA) [1.2-1.5m]	Nos		
26.013	42.00	Chamaedorea Elegans (CHEL) [1.2-1.5m]	Nos		

Sr. No.	Quantity	Description	Unit	Rate	Amount
27.0	3260.00	Supply of Ground covers / creepers - well developed, min. 0.15m high, in polybag of 5"x7" size, disease free. All groundcover species shall be evenly balanced to allow equal growth in all directions. Plants shall have fully developed roots and leaves. Rooted cuttings will not be accepted. All plants to be container grown. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC Botanical Name (CODE) [Height metres] Clerodendrum inerme (CLIN) [0.6]	Nos		
27.001	2365.00	Combretum indicum (COIN) [0.6]	Nos		
27.002	3913.00	Ipomea batata (IPBA) [0.6]	Nos		
27.003	2068.00	Ipomea carnea (IPCA) [0.6]	Nos		
27.004	2068.00	Ipomea palmata (IPPA) [0.6]	Nos		
27.005	2299.00	Ipomea violacea (IPVI) [0.6]	Nos		
27.006	95.00	Lantana camera (LACA) [0.3]	Nos		
27.007	33.00	Lantana camera mixta (LACA.M) [0.3]	Nos		
27.008	28.00	Lantana camera Nivea (LACA.N) [0.3]	Nos		
27.009	55.00	Lantana camera Sanguinea (LACA.S) [0.3]	Nos		
27.010	39.00	Lantana involucrata White Large (LAIN.W) [0.3]	Nos		
27.011	740.00	Lantana purple (LAPU) [0.3]	Nos		
27.012	44.00	Lantana sellowiana (LASE) [0.3]	Nos		
27.013	33.00	Lantana yellow (LAYE) [0.3]	Nos		
27.014	3671.00	Quisqualis indica (QUIN) [0.6]	Nos		
27.015	3156.00	Senecio confusus (SECO) [0.6]	Nos		
27.016	1538.00	Vernonia elaeagnifolia (VEEL) [0.6]	Nos		
27.017	405.00	Wedelia trilobata (WETR) [0.3]	Nos		
27.018	41.00	Monstera Deliciosa (MODE) [0.3m]	Nos		
27.019	247.00	Ophiopogon jaburan (OPJA) [0.15m]	Nos		
27.020	61.00	Ophiopogon Nigrum (OPNI) [0.15m]	Nos		
28.0	53907.00	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unserviceable material's as per direction of officer in charge (excluding cost of plant & water) Item includes all royalty, equipment, labour, loading, unloading, and carriage upto any lead & lift required as directed by EIC - SHRUBS plant	Nos		
29.0	7722.00	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unserviceable material's as per direction of officer in charge (excluding cost of plant & water) Item includes all royalty, equipment, labour, loading, unloading, and carriage upto any lead & lift required as directed by EIC - TREES plant	Nos		
30.0	50.00	Providing & laying exposed Precast Glass fiber reinforcement concrete with 6MPa Tensile Strength, 30 mm Thk (Recommended for Furniture in Public Use) Planter and lifting to all heights & erecting and placing in its final position complete in all respect as per the approved drawings and as directed by engineer in charge. The rates includes the cost of admixtures & necessary equipment's for precasting of panel, curing tanks/curing of precast panel by means of water sprinklers/steam curing etc., cost of providing and maintaining living tools, tackles and necessary cranes/hoists etc.(For Approximate size of Planter up to 1.00 (L) x 0.60 (W) x 0.35 (H) x 0.03(Thickness))	Nos		
31.0	1779.00	Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25 mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hollock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support complete as per direction of Engineer-in-charge, for running creepers	Sqm		
32.0	5414.00	Supply and Grassing with Vettiver grass at 9 Slips per Sq mt in grid spacing in between coir geotextile including watering and maintenance for the slope stabilization for 180 days or more till the grass forms a thicket, sapling with atleast 5-6 blades / leaves & well developed root system, in 4"x5" polybag, disease free, and development including excavation upto 150mm deep where required, including all royalty, equipment, labour, loading, unloading, and carriage upto any lead & lift required as directed by Engineer-in-Charge	Sqm		

Sr. No.	Quantity	Description	Unit	Rate	Amount
33.0	277.00	Preparation of mounds of various size and shape by available excavated / supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc., lead upto 50 meter and lift upto 1.5 m complete as per direction of Officer-in-charge. Details of cost for 10 cum	Cum		
34.0	54.00	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes vertically in tree-pits complete as directed by EIC including supply of all material, labour and equipment upto any lead and lift, 900mm dia RCC pipe	Nos		
35.0	206.00	Supply and application of Geosynthetic Drainage with two filtering nonwoven geotextiles having a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm having pores of 150 micron and tensile strength of 8.0 kN/m and having plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure, tensile strength of 18 kN/m, with mass per unit area of 740 gsm, as per drawing and directed by EIC. Item includes all royalty, equipment, labour, loading, unloading, and carriage upto any lead & lift required as directed by EIC	Sqm		
36.0	11911.00	Supply and Installation of GeoGrid of approved make comprising of biaxial geogrids manufactured from select grades of high tenacity, high molecular weight, and low carboxyl end group polyester yarn to ensure high strengths, low creep and excellent durability. The yarns are formed into a dimensionally stable grid structure with uniform apertures, using an advanced weft insertion warp knitting process and are then given a tough and durable polymeric coating to enhance dimensional stability, resistance to installation damage and durability. GeoGrid with maximum aperture / opening size 40mmx40mm, tensile strength 60 x 60 KN/m each direction, maximum elongation 15%, & including installation as directed by EIC.	Sqm		
37.0	500.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR 11, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. for External work (a) 25 mm dia	meter		
38.0	100.00	(b) 20 mm dia	meter		
39.0	40.00	Providing and fixing Gun metal gate valve/garden hose ball valve with lever handle of approved quality (screwed end). Conforming to Manufacturers Standards. The installation shall be to the satisfaction of the Engineer in Charge. (a) 25 mm dia	Nos		
40.0	1.00	Complete maintenance of the plantation area i.e. lawn trees, shrubs, hedge, flower beds, foliage, creepers etc. including hoeing, weeding, pruning, replacement of plants, gap filling, watering, mowing of lawn, grass cutting by lawn mower and brush cutter, removal of garden waste, applying insecticide, pesticide & fertilizers (whenever required) top dressing of lawn with good earth and manure and maintenance of other garden related works as directed by EIC / Institute. This item shall be operated only after complete campus horticultural development and all plants have survived their development period or completion of defect liability period. This item shall be renewable on annual basis after completion of first year of maintenance, and institute shall have right to deny renewal without assigning any reason whatsoever. (a) For first year	Lum		
41.0	1.00	(b) For second year	Lum		
42.0	1.00	(c) For third year	Lum		
43.0	1.00	(d) For fourth year	Lum		
44.0	1.00	(e) For fifth year	Lum		
		Total Amount of work			