

VOLUME - III

MAHINDRA INDUSTRIAL PARK CHENNAI LIMITED

SOFTSCAPE DEVELOPMENT WORKS INCLUDING MAINTENACE FOR PH-1C & 1B AREA IN ORIGINS, CHENNAI

Volume III - BILL OF QUANTITY

Sr. No.	Work description	Scope of work	Descriptions	Spacing (c/c in meters)	Plant Girth	Plant Height above bag	Plant Bag	Unit	Quantity	Rate in Rupees (Excluding GST) In Figures	Amount in Rs.
1	Supply, Mixing & filling of flower with red soil, manure.										
	Filling levels of Growing Media:	a) Big Trees- (600 x 600 x 600mm)									
		b) Shrubs- 300 mm									
1.1	Excavation	Excavation of soft soil.						M3	407.89		
		Shifting of excavated soil till desire dumping yard. (50 -100 Mtr.)						M3	407.89		
1.2	Supply & Filling of flower beds with planting media	1) Supply of Red soil (with royalty), cow manure in 50:50% proportion considering the compaction factor and wastages of material at the time of shifting and filling.						M3	319.00		
		Soil 50%- _____ M3									
		Manure 50%- _____ M3									
		2) Preparation of planting media by mixing of red soil, manure in 60:40 % proportion or as per need of the site/recommended by site.									

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		3) Shifting of planting media from yard to softscape area. (50-100 Mtr.)									
		4) Filling of flowerbeds with planting media.									
		5) Preparation and formation of flower beds/ lawn bed/ mound bed etc as per design intent.									
									Sub-Total Amount (Rs.)		
2	Plantation Trees & Shrubs										
2.1	Plantation of Trees	1) Unloading & shifting trees in nursery area & maintenance of all trees till plantation.	Bag size: 21x21" & 25x25"	As per drawing				Nos.	797		
		2) Excavating pit in growing media as per tree root ball/ bag.	Height of trees: 10'-15'								
		3) Shifting trees from nursery to softscape area at ground level manually/ machine.									
		4) Plantation of trees as per plan/scheme of the project/as suggested by site.									
		5) backfilling & compaction of pits with planting media and watering.									
		6) Providing supports to the trees with bamboos-square frame method as shown in the photographs or as suggested by site.									
		7) Disposal of all waste which will be arise during plantation work out of the site.									
		8) Replantation including unloading, shifting and staking, disposal of waste needs to be done in case of natural calamities, mortality happens during maintenance period & the tree will be provided by MLDL. & Mortality due to poor maintenance will be replaced by contractor (All inclusive)									

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		9) Barricade of developed softscape area.									
2.2	Plantation of shrubs	1) Unloading & shifting of shrubs in nursery area and maintenance of all plants till plantation. 2) Excavating pits for planting shrubs. 3) Shifting of shrubs from nursery to softscape area. 4) Plantation of shrubs as per plan/scheme of the project/as suggested by Architecture/Horticultural staff and watering. 5) backfilling & compaction of pits with planting media and watering. 6) Providing supports with assam bamboos as per necessity of the plant species/as suggested by site. 7) Disposal of all waste which will be arise during plantation work out of the site 8) Replantation including unloading, shifting and staking, disposal of waste needs to be done in case of natural calamities, mortality happens during maintenance period & the tree will be provided by MLDL. & mortality due to poor maintenance will be replaced by contractor. 9) Barricade of developed softscape area.	Bag size: 15x16" 13x13" / 8x10"/ 7x8"/ 5x6"/6x8"/4x6" "; Height of plant: from 1'-15')					M2	373		
								Sub-Total Amount (Rs.)			
3	Supply of Trees (Rate should be inclusive of transport)										
3.1		Largestomia speciosa	Bushy trees	As per plan	3-4"	10-12'	21x21"	Nos.	129.00		

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3.2		Filicium decipiens	Bushy trees	As per plan	3-4"	10-12'	21x21"	Nos.	129.00		
3.3		Cassia fistula	Bushy trees	As per plan	3-4"	10-12'	21x21"	Nos.	126.00		
3.4		Pongamia pinnata	Bushy trees	As per plan	3-4"	10-12'	21x21"	Nos.	126.00		
3.5		Cordia sebestena	Bushy trees	As per plan	3-4"	10-12'	21x21"	Nos.	126.00		
3.6		Jacrandra tree	Bushy trees	As per plan	4-5"	10-15'	25x25"	Nos.	1		
3.7		Swietenia mohogany	Busy trees	As per plan	3-4"	10-15'	21x21"	Nos.	75		
										Sub-Total Amount (Rs.)	
4	Supply of Shrubs (Rate should be inclusive of transport)										
4.1		Hymenocallis littoralis	Bushy plants	0.30	-	1'-1.3"	5x6"	Nos.	309.00		
4.2		Acalypha wilkesiana- Red	Bushy plants	0.30	-	1-1.6"	7x8"	Nos.	735.00		
4.3		Tecoma gaudichaudi	Bushy plants	0.30	-	1-1.6"	7x8"	Nos.	894.00		
4.4		Nerium oleander white	Bushy plants	as per plan	-	2-3'	13x13"	Nos.	387.00		
4.5		Thevetia orange	Bushy plants	as per plan	-	2-3'	13x13"	Nos.	387.00		
4.6		Nerium olender pink	Bushy plants	as per plan	-	2-3'	13x13"	Nos.	378.00		

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4.7		Caesalpinia pulcherrima pink	Bushy plants	as per plan	-	2-3'	13x13"	Nos.	378.00		
4.8		Tecoma stans	Bushy plants	as per plan	-	2-3'	13x13"	Nos.	756.00		
4.9		Acalypha wilkesiana- Java white	Bushy plants	0.30	-	1-1.6"	7x8"	Nos.	306.00		
									Sub-Total Amount (Rs.)		
5	Maintenance Charges:- [Free Maintenance for '3 Months' Post Completion of Work & Chargeable after Free Maintenance Period thereafter for '5 Months' period]										
5.1	Maintenance Charges	Providing Maintenance of all trees, shrubs with proper maintenances for 5 months period, post 3 months free maintenance period, to achieve desire quality for this operation vendor needs to follow the instructions of Horticultural staff. All daily maintenance activities of trees or related activities as per maintenance SOP. 'Cost free maintenance' of developed softscape area for the period of 'THREE Months' after completion/ handover process of garden development work including sufficient skilled gardener's strength, garden tools, soil, manure, coco-peat, fertilizer's, insecticides, pesticides, growth hormones, hard brooms & other necessary material etc. (Water point will be provided by MIPCL). Maintenance of softscape guidelines as per Annexure-I.						Month	5.0		
									Sub-Total Amount (Rs.)		
TOTAL NET AMOUNT (Excluding GST)											
<i>Add: GST @% for Item No. 1, 2 & 5</i>											
<i>Add: GST @% for Item No. 3 & 4</i>											
TOTAL GROSS AMOUNT [Including GST]											