

TECHNICAL SPECIFICATIONS - PART - II			
Name of the work : Provision of car servicing shed and other related facilities in the Estate of O.F.Medak.			
Sl. No	Item description	Unit	No. of units
1	<u>Demolition</u> : Demolition of cement concrete of any description in any position not other wise described specifically provided for. Complete all directed at site.	Cum	5.0
2	Excavation : Excavation over areas not exceeding 1.5m depth in hard/dense soils and getting out. Complete all as specified and directed	Cum	50.0
3	Excavating in trenches in hard/dense soils, n.exc 1.5 m wide and n exc 1.5 m in depth; for foundation, etc. or for shafts, wells, cesspits, manholes, pier holes, etc. n exc 10 sq m on plan and n exc 1.5 m in depth and getting out.	Cum	5.0
4	Surface excavation not exceeding 30 cm deep and averaging 15 cm deep in hard / dense soil and getting out. complete all as specified and directed.	sqm	240.0
5	<u>PCC</u> : Plain Cement Concrete (1:4:8) Type D-2 using 40 mm graded aggregate in foundations, floors, filling and mass concrete, Complete all as specified and directed .	Cum	5.0
6	<u>PCC</u> : Plain Cement Concrete (1:2:4) Type B-2 using 40 mm graded aggregate in foundations, floors, filling and mass concrete. Complete all as specified and directed .	Cum	4.5
7	<u>CC 1:2:4(M&L)</u> : Cement concrete 1:2:4 Type B1, using 20 mm graded aggregate in cills, steps, plinth courses, string courses, parapets, railings, Coping etc. including weathering, slightly rounded or chamfered angles and throating etc. including neat finish, Complete all as specified and directed at site.	Cum	3.5
8	<u>Stone Masonry</u> : Walling of Squared Rubble regular coursed Stone masonry, well bonded, bedded and solidly hearted built in with 1:6 cement mortar, Complete in all respects as specified and directed.	Cum	30.0
9	Brick work : Brick work with sub class 'B' bricks straight or curved in plan with 1:6 cement mortar. Complete all as specified and directed.	Cum	25.0
10	<u>Plastering</u> : Rendering of 12mm thick plastering with 1:6 cement mortar on fair faces of brick work or concrete surfaces. Complete in all respects as specified and directed.	Sqm	240.0
11	Supply of liquid water proofing compound to incorporate in concrete / plastering.	Liter	5.0
12	Moorum filling: Moorum filling in floors or pavings laid in layers not exe. 15cm thick , spread leveled and rammed including watering all as specified and directed.	Cum	61.0
13	Hard core : Hard core with broken stone/ boulders of gauge not exc. 63mm, deposited, spread leveled in layers not exceeding 15 cm thick, and watered and rammed to a true surface. Complete all as specified and directed.	Cum	25.0
14	<u>PCC paving</u> : PCC 1:4:8 in floors/ pavings of type D-2, 1:4:8 with 40mm graded aggregate, 75 mm thick . Complete in all respects as specified and directed.	Sqm	90.0

15	<u>CC paving</u> : CC 1:3:6 in floors/ paving of type C-2, using 40mm graded aggregate, 100 mm thick including finishing cement concrete surface even and smooth without using extra cement. Complete all as specified and directed.	Sqm	210.0
16	<u>CC paving</u> : CC 1:2:4 in floors/ paving of type B-1, 1:2:4 with 20mm graded aggregate, 70 mm thick including finishing cement concrete surface even and smooth using extra cement. Concreting should be done in panels as directed. Complete all as specified and directed.	Sqm	90.0
17	Reinforcement : Supply & fixing of Mild steel round steel bars 10 mm dia. and over cut to length and bent to shape required, including cracking, bending spirally for hooping for columns, hooking ends binding with and including mild steel wire not less than 0.9mm dia. or securing with clips quality of steel conforming to TMT bars. Complete in all respects as specified and directed.	Kgs	250.0
18	<u>Structural steel</u> (S&F) : Structural steel work of Fe-410W (Gde-E-250)quality B, in roof trusses, trussed purlins, structural columns, distance pieces, cleats etc. including fabrication, erection, fixing of special shaped washers and application of one coat of zinc chromate primer paint. Complete all as specified directed.	Kgs	1750.0
19	<u>Roofing sheet</u> : Supply and fixing of pre painted galvalume aluminium zinc coating GI based corrugated/ trapezoidal profile roofing sheets of thickness 0.5 mm having tensile strength of 550Mpa as in roof covering / cladding to wall with self tapping screws etc. sheets should have curves at the ends. Complete all as specified and directed.	Sqm	115.0
20	<u>G.I. TUBES</u> : Supply & laying of G.I. Tubes of Size 25 mm medium grade including all fittings to walls and ceilings or in floors/trenches. Completed all as specified and directed.	Rm	70.0
21	Ball valve : Supply and fixing of Ball brass valves 25 mm dia., high pressure, with polythene float and flynut complete, screwed for iron pipe or brass ferrule and fixed	Each	3.0
22	<u>PVC (SWR) pipe</u> : Supply and laying of PVC (SWR) pipes 110 mm dia. single socketed, in any length with rubber ring joints, laid in trenches or in floors	Rm	50.0
23	<u>PVC (SWR) bend</u> : Supply and fixing of PVC (SWR) bend 110 mm dia.	Each	5.0
24	<u>SY.ENAMEL PAINTING (STEEL) (M&L)</u> : Synthetic enamel painting on new steel surfaces of any description not otherwise described over 10cm width or girth – including preparation of surfaces and application of red oxide zinc chrome primer, using brand Asian- Asian Apcolite, Berger (LUXOL Brand)– TWO COATS. all as specified and directed.	Sqm	85.0
25	<u>WHITE WASHING (WALLS) (M&L)</u> : White washing on walls, on new plastered surfaces – including preparation of surfaces TWO COATS, all as specified and directed.	Sqm	175.0

26	Supply and fixing of point wiring with 1.5 Sq.mm single core unsheathed 1100 volts grade with multi stranded copper conductor drawn through and including non metallic rigid pvc conduit medium grade ISI marked with conduit accessories concealed wiring (for cutting grooves and plastering the wall rate seperately added in the point No. 18) including drawing earth continuity 2.5 sq.mm single core copper wire of green colour of same make and specification as for point wiring along the wiringconnected to common earth dolly .MS Box of 3 mm duly painted with one coat of red oxide and two coats of Synthetic enamel paint fixed sunken /gravited in to the wall including including 3mm thick Hylem sheet with good finishing for mounting switches ,sockets ,regulators etc ,cutting ,fixing neatly as specified and for the following. complete all as specified. Pont wiring:Supply and fixing /Drawing of cables in PVC pipe of 1" Dia ,one Light point or one fan point controlled by one switch with cables 1.5 sq.mm size of copper conductor cables of Finolex/ Havells make in PVC conduit ,includes all accessories like bends ,tees ,screws ,clips lugs,clamps,junction boxes ,cutting holes in or through walls ,fixing of wooden boards ,earth wire and seperate nuetral etc and testing as specified by EIC 's technical instructions amended from time to time.	Each	12.0
27	Supply and fixing of point wiring with 1.5 Sq.mm single core unsheathed 1100 volts grade with multi stranded copper conductor drawn through and including non metallic rigid pvc conduit medium grade ISI marked with conduit accessories concealed wiring (for cutting grooves and plastering the wall rate seperately added in the point No. 18) including drawing earth continuity 2.5 sq.mm single core copper wire of green colour of same make and specification as for point wiring along the wiringconnected to common earth dolly .MS Box of 3 mm duly painted with one coat of red oxide and two coats of Synthetic enamel paint fixed sunken /gravited in to the wall including including 3mm thick Hylem sheet with good finishing for mounting switches ,sockets ,regulators etc ,cutting ,fixing neatly as specified and for the following. complete all as specified. pont wiring:Supply and fixing /Drawing of cables in PVC pipe of 1" Dia ,one 3 pin socket outlet 5 amps independent with cables 2.5 sq.mm size of copper conductor cables of Finolex/ Havells make in PVC conduit ,includes all accessories like bends ,tees ,screws ,clips ,plugs,clamps,junction boxes ,cutting holes in or through walls ,fixing of wooden boards ,earth wire and seperate nuetral etc, and testing as specified by EIC 's technical instructions amended from time to time.complete all as specified	Each	2.0

28	Supply and fixing of point wiring with 1.5 Sq.mm single core unsheathed 1100 volts grade with multi stranded copper conductor drawn through and including non metallic rigid pvc conduit medium grade ISI marked with conduit accessories concealed wiring (for cutting grooves and plastering the wall rate seperately added in the point No. 18) including drawing earth continuity 2.5 sq.mm single core copper wire of green colour of same make and specification as for point wiring along the wiringconnected to common earth dolly .MS Box of 3 mm duly painted with one coat of red oxide and two coats of Synthetic enamel paint fixed sunken /gravited in to the wall including including 3mm thick Hylem sheet with good finishing for mounting switches ,sockets ,regulators etc ,cutting ,fixing neatly as specified and for the following. complete all as specified. All as specified for item No. 26b above but using 4 sq.mm size of copper conductor One 3 pin socket outlet,15 amps independent with PVC cables 4 sq.mm size of copper conductor including of all the above items with 4 sq.mm size copper conductor for earthing complete all as specified.	Each	5.0
29	<u>Switch</u> :supply and fixing of switch piano flush button single pole one way 5 amps Make Anchor of ISI quality.	Each	12.0
30	<u>Switch cum socket</u> :supply and fixing of switch socket combination 2 in 1, 6 amp flush type Make Anchor of ISI Quality.	Each	2.0
31	<u>Switch cum socket</u> :supply and fixing of switch socket combination 5 in 1 , 3 pin 6 A / 16 A flush type universal Make Anchor of ISI quality.	Each	6.0
32	<u>ceiling rose</u> :supply and fixing of ceiling rose, 3 phase,/PVC/Polycarbonate, isolated body. Make Anchor/Maru Jumbo type of ISI quality.	Each	15.0
33	<u>MCB</u> :supply and fixing of MCB single pole 5 to 40 amp Make Indo kupp/legrand of ISI quality	Each	6.0
34	<u>MCB D.B</u> :supply and fixing of 8 way D.B with 200 amp rated bus bar MCB box TPN 415 V with single door Make indo asian /legrand/havwels of ISI quality.	Each	1.0
35	<u>SUB MAIN WIRING</u> : Supply and fixing of wiring for Sub Main wiring along with earth wire with following sizes of FR PVC Insulated copper conductor single core cable in recessed 2x6.0 Sq.mm + 1x6.0 sq.mm earth wire in PVC Conduit concealed wiring Make Finolex/ Havells.	RM	75.0