

SCHEDULE-B

Name of work:- "Construction of Garage and repair workshop building for mobile cargo handling equipments inside cargo jetty area"

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
1	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m 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 soil as directed, within a lead of 50 m.				
A	All kinds of soil.	3443.00		m3	
B	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.	1148.00		m3	
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	1148.00		m3	
3	Disposal of excavated stuff/demolished concrete etc. up to lead of 2.00 km by motor truck including loading, unloading and dressing at the disposal site as directed by engineer in charge.	3443.00		m3	
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	511.00		m3	
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	1010.00		m3	
6	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping/ placing of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
A	All works upto plinth level	1033.00		m3	
B	All works above plinth level upto floor V level	969.00		m3	
7	"Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). A) Cement concrete prepared with batch mixing machine.	1718.00		m3	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
B)	Extra for providing and spreading hardening compound of approved quality as per manufacturer's specification on cement concrete surface @ 3kg/m2 and polished the surface by mean of machine operated polisher in 2 to 3 stage polish after spreading the same on concreted surface.	6868.40		M2	
C)	Extra for filling of poly sulphite joint filling compound up to 1 cm deep and 1 cm wide expansion joint and remainig depth of joint to be packed by inserting the backing rod of approved quality after proper cleaning the dust from groves as directed by engineer in charge.	3436.00		M	
8	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete .				
A	Thermo-Mechanically Treated bars of grade Fe- 500D or more.				
I	UPTO PLINTH LEVEL	123960.00		KG	
II	ABOVE PLINTH LEVEL	15578.00		KG	
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
A)	Foundations, footings, bases of columns, etc. for mass concrete	889.00		M2	
B)	Lintels, beams, plinth beams, girders, bressumers and cantilevers	2474.00		M2	
C)	Columns, Pillars, Piers, Abutments, Posts and Struts	1788.00		M2	
D)	Suspended floors, roofs, landings, balconies and access platform	2994.00		M2	
E)	WALL	177.00		M2	
F)	Stairs, (excluding landings) except spiral-staircases	106.00		M2	
10	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size)				
I)	Cement mortar 1:6 (1 cement : 6 coarse sand)	874.00		m3	
11	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	160.00		m3	
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
b	In superstructure above plinth level up to floor V level in all shapes and sizes in :				
i	Cement mortar 1:6 (1 cement : 6 coarse sand)	568.00		m3	
c	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
i	Cement mortar 1:4 (1 cement :4 coarse sand)	124.00		m2	
13	Hacking of CC flooring/plastered surface including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	1148.00		M2	
14	Plastering with cement mortar 1 : 4 including cleaning, finishing smooth curing etc. complete.				
a)	20 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand)	2587.00		M2	
b)	12 mm cement plaster of mix 1:4 (1 cement: 4 fine sand)	8377.00		M2	
15	Providing raised and cut (tuck) pointing on all types of masonry with cement mortar 1:3 0 after raking out joints, scrubbing, cleaning and curing etc.complete.	1114.00		M2	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
16	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	200.00		M2	
17	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. c)After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	1783.00		M2	
18	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
A)	Second class teak wood	2.50		m3	
19	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
a	35 mm thick including bright finished brass butt hinges with necessary brass screws	50.00		m2	
b	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS: 3818 marked with necessary screws	50.00		m2	
20	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	24.00		each	
21	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				

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A)	250x10 mm	20.00		each	
B)	150x10 mm	50.00		each	
22	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
A)	125 mm	48.00		each	
23	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.	24.00		each	
24	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.	50.00		each	
25	Providing and fixing bright finished brass hasp and staple (safety type)with necessary screws etc. complete :				
a)	115 mm	100.00		each	
26	Providing and fixing bright finished brass aldop with necessary screws etc. complete :				
a)	300 x 16 mm	24.00		each	
27	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	24.00		each	
28	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile),appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg),G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc.After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately)				
a	Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)	54.00		m2	
b	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)	2.00		m2	
29	Steel work welded in built up sections/ framed work, including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
a	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	2584.00		kg	
30	Providing and fixing 18 mm thick gang saw cut, mirror polished,premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement,mixed with matching pigment, epoxy touch ups, including rubbing, curing,moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	Granite of any colour and shade				
A)	Area of slab upto 0.50 sqm	70.50		M2	
B)	Area of slab over 0.50 sqm	4.80		M2	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
31	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3kg/sqm.				
A)	Size of Tile 600x600 mm				
I	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling /grouting and finishing complete as per direction of Engineer-in-charge.	992.00		M2	
32	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :	258.00		M2	
33	Providing both side polished Kota stone slab 40 mm thick of approved shade & size for the cupboard self set in cement mortar 1:3 (1 cement 3 sand) complete as directed by engineer in charge	54.00		M2	
34	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey,Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement :4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	38.00		M2	
35	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	175.00		M2	
36	Providing & fixing PVC Nahni trap 100 mm dia. with necessary fittings, making good the walls & floor, including cost of labour, materials etc., complete as directed.	12.00		Each	
37	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:& its accessories.				
A)	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2.00		Each	
38	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
A)	W.C. pan with ISI marked white solid plastic seat and lid	2.00		Each	
39	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock	4.00		Each	
40	Providing and fixing brass bib cock of approved quality :				
a	15 mm nominal bore	12.00		Each	
41	Providing and fixing C.P .Brass Stop cock.				
a	15 mm dia. - weight 0.40 kg	12.00		Each	

TI No	Description of item	Qty.	RATE	UNIT	AMOUNT
42	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	4.00		Each	
43	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.(Concealed work, including cutting chases and making good the walls etc)				
a	15 mm nominal outer dia Pipes	20.00		M.	
b	20 mm nominal outer dia Pipes	20.00		M.	
c	25 mm nominal outer dia Pipes	140.00		M.	
44	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
a	32 mm nominal outtrt dia pipes external work	50.00		M.	
45	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 10 mm gap for thermal expansion,(i) Single socketed pipes.				
A)	110 mm diameter	32.00		M.	
46	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand).				
A)	Stone ware spout	10.00		Each	
47	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length,including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
a	110 mm	16.00		Each	
48	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
A)	100x100 mm size P type with common burnt clay F.P.S. (non modular) designation 7.5	4.00		Each	
49	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
A)	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	4.00		Each	
50	Providing, laying & jointing PVC pipes of required working pressure as per I.S.I. 4985 including cutting and jointing the pipe ends as per manufacturer's instructions including the cost of specials wherever required and, excavation and refilling of the trenches or fixing on walls or similar structures with clamps and testing the joints etc. complete as directed.				
A)	Pipe 160 mm outer dia. working pressure 6 kg/cm2.	50.00		M.	

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51	Providing & fixing SWR PVC (I.S.I - IS 13592) waste or vent pipe including necessary specials such as Tees, Bends, Y's Plinth offsets, Shoes , Vent cowl etc . with bracket , screws on wooden plugs fixed on wall face including filling joints with solution & cement mortar 1:2 complete as directed.				
	110 mm dia. (OD)	60.00		M.	
52	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	4000.00		Ltr.	
53	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
A)	For pipes 100 to 250 mm diameter	8.00		Each	
54	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	4.00		Each	
55	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
A	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	10819.00		M2	
56	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	10819.00		M2	
57	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :				
A)	Two or more coats on new work	8220.11		M2	
58	Finishing walls with water proofing cement paint of required shade :				
A)	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	2598.62		M2	
59	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	371.00		M2	
60	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	97.00		M2	
61	Supplying, testing, commissioning RO Plants of 150 Litre per hour capacity (including required PVC water tank) of approved make which consists of all necessary parts viz motor pump of required capacity, multipart valve, 20" bowl & filter silver process of high pressure pump of required capacity, multipart valve, 20" bowl & filter silver process of high pressure pump of required capacity, membrane, Rotameter, pressure meter, electric panel with M.S. Cabinet all necessary Electric & other connection required to commissioned the RO Plant which gives the required TDS complete with loading, unloading & Transportation, Installation including all taxes with one year warrantee and maintenance free.	2.00		Each	

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62	Maintainance the toilet block,office building from inside building and surrounding area of buildings by engaging sufficient man power for cleaning & maintaining hygenic condition including all the materials required for cleaning purpose like Nepethylene Ball, Acid, Deterrgent powder, Goa broom, Tiles cleaner, Air freshner spary and any items required for the purpose of cleaning and maintainance of toilet and surrounding premises and also carry out all types of maintenance activities by means of repair/ replacement of pipe lines drainage line and its fittings and fixtures and periodically cleaning of chambers, septic tank, water tank etc. (For Two years period)				
A)	Sweeper / male mazdoor /female mazdoor for cleaning of Toilet block, Rest shelter, office building round the clock.	2920.00		day	
63	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.	112.00		M2	
64	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
		112.00		M2	
65	Providing and fixing of self Supported structure less Roofing systems with proper overlapping and seaming between different sheets without making holes or preventing the overturning the roof by wind addition made up from regular Modified polyster Important color coated Galvalume cold rolled structural steel sheets coils of superior quality structural steel.Base metal width 912 mm,and Thickness 1.60 mm BMT,1.65 mm APT with tolerance of +/- 0.04 mm..Profiled width of 625 mm +/- 10mm. The work includes design,supply& fabrication of self supported single span arch roof febricated by mechanically seamed in American Machines to profiles as per standard ASTM A792,Steel sheet,Aluminum-Zinc Alloy Coated by Hot-Dip process.The work should be carried out by specialize and approved agency only.The rates of item including fitting as per standard specification. (Only net area of sheet to be measures i.e.Clear length without corrugation& curved/sloping width. no extra measurements/payement shall be given for corrugation/profile & over lapping.The area of skyligh sheet/turbo ventilators will be deducted.)				
A)	For main roof of shed with c/c span of column/supporting beam between 25 to 32 m.	1725.00		M2	
66	Providing and fixing of hangers/clamps as per manufactures specification for laying of cables and hanging of bulbs/light fixtures etc.from self supported proflex systems Roofing	100.00		Each	
67	Providing and fixing of modules of 2 no of 24" dia wind operated Aluminum Turbo Ventilator with single Transperant skylight sheet (minimum 2 mm thick) of 2 ft width and 28ft length at require intervals in self supported proflex Roofing system on center as per manufactures specifications.	6.00		Each	
68	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a)	25 mm nominal bore	6.00		Each	
b)	32 mm nominal bore	6.00		Each	

Total Rs.