

Annex-C						
Supply of Material Construction/Rehabilitation of Police line Steel Shed 100 ft X 25 ft at sectariate gate opposite to PAL office District Peshawar						
S.No	Items & Specification	Quantity	Unit	Brand Offered	Unit Rate	Total Amount
1	Dismantling existing structure in all respect					
a	Dismantling existing structure in all respect	1815.00	Sft			
2	Excavation					
a	Earth excavation in open cut upto 1.5m depth for drains, pipes etc. & disposal : in Hard Soil to design section and re-use of excavated material for backfilling/borrow material if required properly compacted as per the instruction of engineer in charge	1105.00	Cft			
3	Formation, Dressing, Compacting					
b.	Formation, dressing, compacting and preparing sub-grade in bed as per Engineer instructions Bed clearance and dressing slopes of channels/Water transport structures (Nacka's) including removing of weeds and roots etc. Excavated material should be dressed within 100m lead	530.00	Sft			
4	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)					
a	Providing and laying Plan cement concrete including shuttering, maxing, placing, compacting, finishing (nominal mix ration 1:4:8) (the crush must be well graded, free from mud and dust and the sand will be fine & clear from mud/dust) as in bed, foundations complete in all respect. Required crushing strength must be not less than 1800 psi.	315.31	Cft			
5	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)					
a	Providing and laying plain cement concrete including shuttering, placing, compacting, finishing and curing (Nominal mix ration 1:2:4) in foundation under walls and pipe culverts etc. Maxing of concrete ingredients must be on a surface which having zero water absorption capacity like concrete floor or thick polythene sheet etc.	750.00	Cft			
6	Reinforced Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)					
a	Providing and laying Reinforced cement concrete including shuttering, placing, compacting, finishing and curing (Nominal mix ration 1:2:4)	737.50	Cft			
7	Steel Work # 4 Grad 60					
a	Steel for columns #3, #4, and #5 Deform bars Grad 60	1761.82	Kg			
8	Supplying, fabricating and fixing MS base plate , including cutting from approved MS plate, drilling of holes, welding of stiffener plates, edge grinding, fixing in proper line and level, complete with all accessories as per approved shop drawings and instructions of Engineer-in-Charge.					
a	Base plates for high-side and low-side columns, 500 mm × 500 mm × 25 mm or approx. 20 in × 20 in × 1 in, including stiffeners and holes	10.00	No			
a	Base plates for high-side and low-side columns, 500 mm × 500 mm × 25 mm or approx. 20 in × 20 in × 1 in, including stiffeners and holes	5.00	No			
9	Supplying and fixing M24 and M30 Grade 8.8 anchor bolts for side column base plates, including threaded anchor bolts, double nuts, washers, anchor plates/headed ends, proper embedment in RCC pedestal, alignment with steel template, tightening and all accessories complete in all respects.					
a	Anchor bolts for side columns, 4-M24 Grade 8.8 per column, with washers, double nuts and anchor plates/headed ends	40.00	No			
	Anchor bolts for centre columns, 4-M30 Grade 8.8 per column, with washers, double nuts and anchor plates/headed ends	20.00	No			
	Supplying and fixing steel anchor bolt templates for accurate positioning of anchor bolts before concreting, including fabrication, drilling, placing, checking of line/level and removal/adjustment where required.	15.00	No			
	Providing and applying non-shrink grout below steel base plates, minimum 25 mm thickness, including surface cleaning, mixing, placing, finishing, curing and filling below base plates complete in all respects.	5.00	Cft			
10	Paint work					
a	Providing complete corrosion protection and painting system to structural steel frame, including surface preparation by mechanical/abrasive cleaning, removal of rust, mill scale, welding slag, oil, grease and dust, application of one coat zinc-rich epoxy primer, one coat high-build epoxy intermediate coat and one coat UV-resistant polyurethane finish coat of approved colour, including touch-up painting after transportation, erection, bolting and welding, complete in all respects as per approved paint manufacturer's specifications and instructions of Engineer-in-Charge.	5250.00	Sft			

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11	MS Pipe Frame work Supplying, fabricating, transporting and erecting structural steel frame for 100 ft × 25 ft open-sided mono-pitch FRP/fibreglass shed, including built-up/tapered I-section columns, rafters, intermediate rafters, centre longitudinal girder of built-up I-section 350 mm × 175 mm with 8 mm web and 10 mm flanges, high-side and low-side longitudinal/eave girders of built-up I-section 300 mm × 150 mm with 6 mm web and 8 mm flanges, knee braces, X-bracing, gusset plates, splice plates, stiffeners, cleats, structural bolts, nuts, washers, welding, drilling, cutting, grinding, hoisting, alignment, surface preparation, primer and finishing paint, complete in all respects as per approved structural/shop drawings and instructions of Engineer-in-Charge. Structural steel shall conform to ASTM A572/A572M Grade 50 / Grade 345 or approved					
a	tapered I-section High-Side Columns Web depth = 300 mm Web thickness = 8 mm Flange = 250 mm × 14 mm, 2 Nos.	1574.38	Kg			
b.	tapered I-section Centre columns Web depth = 350 mm Web thickness = 10 mm Flange = 300 mm × 16 mm, 2 Nos.	2074.73	Kg			
c	tapered I-section Main transverse rafters Web depth = 350 mm Web thickness = 8 mm Flange = 200 mm × 12 mm, 2 Nos.	1591.13	Kg			
d	tapered I-section Intermediate transverse rafters Web depth = 300 mm Web thickness = 6 mm Flange = 150 mm × 8 mm, 2 Nos.	803.94	Kg			
e	I-section Centre longitudinal girder Web depth = 350 mm Web thickness = 8 mm Flange = 175 mm × 10 mm, 2 Nos.	1205.91	Kg			
f	I-section High-side and low-side longitudinal girders Web depth = 300 mm Web thickness = 6 mm Flange = 150 mm × 08 mm, 2 Nos.	1607.88	Kg			
g	I-section low-side Column Web depth = 350 mm Web thickness = 10 mm Flange = 300 mm × 10 mm, 2 Nos.	650.81	Kg			
h	Section: ISA 75 × 75 × 8 mm Knee braces	181.36	Kg			
i	X-bracing rods (16 mm bar) (End X-bracing + roof-plane X-bracing)	189.60	Kg			
j	Providing gusset plates, stiffener plates, cleat plates, seat plates, splice plates, uplift cleats, purlin cleats, miscellaneous connection plates, structural bolts, nuts, washers and packers for complete structural steel frame connections, including cutting, drilling, welding, grinding and fixing complete in all respects as per approved shop drawings.	1360.00	Kg			
12	Z-Section roof Purlins					
a	Supplying and fixing galvanized cold-formed Z-section roof purlins, size Z 200 × 60 × 20 × 2.5 mm thick, fixed along the 100 ft length of the shed at maximum 2 ft 6 in c/c spacing across the one-side sloping roof, including cutting, drilling, lapping, alignment, lifting, placing, fixing with approved bolts/cleats, and all accessories complete in all respects as per approved structural/shop drawings and instructions of Engineer-in-Charge.	1877.57	Kg			
b	Supplying and fixing purlin cleats, bridging, sag rods, M12 bolts, nuts, washers and all accessories complete	1.00	Job			
c	Supplying and fixing eave struts and roof edge members where required	1.00	Job			
13	End and Roof Bracing					
a	Supplying, fabricating and fixing 16 mm dia galvanized tension-rod X-bracing at end elevation F1, including threaded rods, turnbuckles, clevises, pins, washers, fixing with gusset plates, alignment, tightening and all accessories complete in all respects as per approved shop drawings.	1.00	Set			
b	Supplying, fabricating and fixing 16 mm dia galvanized tension-rod X-bracing at end elevation F5, including threaded rods, turnbuckles, clevises, pins, washers, fixing with gusset plates, alignment, tightening and all accessories complete in all respects as per approved shop drawings.	1.00	Set			
c	Supplying and fixing heavy-duty galvanized turnbuckles, clevises and pins for end X-bracing rods, suitable for 16 mm dia tension rods, including tightening and adjustment complete.	8.00	Set			
d	Supplying, fabricating and fixing roof-plane diagonal bracing in selected roof bays, using 16 mm dia galvanized tension rods with turnbuckles, clevises, pins and fixing accessories, complete in all respects as per approved structural drawings.	3.00	Set			
e	Supplying and fixing bracing gusset plates, minimum 10 mm thick, including cutting, drilling, welding, grinding, primer, fixing and all accessories complete.	1.00	Set			
14	Structural Connection Assemblies					
a	Supplying, fabricating and fixing high-side rafter-to-column gusseted connection assemblies, including 12–16 mm thick gusset plates, stiffener plates, cleats, M20/M24 Grade 8.8 bolts, nuts, washers, drilling, welding, grinding, fitting, alignment and tightening complete as per approved shop drawings.	5.00	Set			

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b	Supplying, fabricating and fixing centre-column-to-rafter connection assemblies, including 16 mm thick gusset plates/stiffener plates, seat plates, cleats, M20/M24 Grade 8.8 bolts, nuts, washers, welding, drilling, grinding, alignment and tightening complete as per approved shop drawings.	5.00	Set			
c	Supplying, fabricating and fixing low-side rafter-to-column gusseted connection assemblies, including 12–16 mm thick gusset plates, stiffener plates, cleats, M20/M24 Grade 8.8 bolts, nuts, washers, welding, drilling, grinding, fitting and tightening complete.	5.00	Set			
d	Supplying, fabricating and fixing longitudinal girder-to-column bearing and uplift connection assemblies, including bearing/seat plates, uplift cleats, gusset plates, stiffeners, M20 Grade 8.8 bolts, nuts, washers, welding, drilling, alignment and all accessories complete.	15.00	Set			
e	Supplying, fabricating and fixing intermediate rafter-to-longitudinal-girder connection assemblies, including 10 mm thick cleat/seat plates, minimum 2-M16 bolts per support, nuts, washers, drilling, welding, alignment and tightening complete.	12.00	Set			
f	Supplying, fabricating and fixing longitudinal girder field splice assemblies, including splice plates, web plates, flange plates, stiffeners, M20/M24 Grade 8.8 bolts, nuts, washers, drilling, welding, alignment and tightening complete.	12.00	Set			
g	Supplying, fabricating and fixing end and roof bracing gusset assemblies, including minimum 10 mm thick gusset plates, holes for clevis/rod fixing, bolts, washers, welding, drilling, grinding, primer and fixing complete.	20.00	Set			
15	FRP/Fiberglass roofing					
a	Providing and fixing 5 mm nominal thick UV-stabilized, fire-retardant FRP/fiberglass corrugated roofing sheets over galvanized Z-purlins for 100 ft × 25 ft open-sided mono-pitch shed, including lifting, cutting, alignment, side laps, end laps, fixing with corrosion-resistant self-drilling screws, EPDM rubber washers, saddle washers, high-side eave/head flashing, low-side gutter/drip flashing, barge/end flashings, butyl sealing tape, weatherproof sealant, profile fillers, closures, bird/insect-proof mesh and all accessories complete in all respects as per approved drawings, manufacturer's recommendations and instructions of Engineer-in-Charge.	2800.00	sft			
16	Rainwater Drainage System					
a	Supplying, fabricating and fixing complete rainwater drainage system for 100 ft × 25 ft mono-pitch FRP shed, including 10 in × 8 in GI box gutter along low-side eave, 4 in dia GI/heavy-duty uPVC downpipes, gutter outlets, bends, shoes, clamps, brackets, emergency overflow outlets, jointing, waterproof sealant, connection of downpipes to approved surface-drainage points, testing and all accessories complete in all respects as per approved drawings and instructions of Engineer-in-Charge.	1.00	Job			
17	Sign Board					
a	Providing and installation of Sign Board size of 4'X3' internal size using 18gauge steel sheet , 16 gauge MS pipe 1.5" dia as in frame of size 4.5' x 3.5' & 5' height foots with cross angel iron double strips of 1 feet length, writing of given data double side with IR logo) and minimum 6x numbers of wall chalking of given data with IR logo complete 5' X 8' size on the near by wall with paint or as directed by Engineer.	1.00	No			
Grand Total (Inclusive of All Govt. Applicable Taxes, labour, material supply, loading/unloading, Transportation and Installation, if any)						