

SCOPE OF WORK : INSTALLATION OF 2 x PORTA CABINS (PRE-FABRICATED SHELTER) AT ARMY PUBLIC SCHOOL, DHAULA

<u>S.No</u>	<u>Description</u>
1	<u>Foundation and Wall.</u> Foundation shall be provided with brick masonry in CM (1:4) with PCC (1:4:8). Depth of foundation will be 2 ft below GL. Above GL up to PL (height - 450mm) over a brick masonry step foundation in cement mortar 1:4, 15 mm thick cement plaster in cement mortar 1:6 will be done on brick masonry above ground level. To be matched to existing nearest building.
2	<u>Flooring.</u> (i) For Verandah - Kota stone flooring with Jaisalmer stone border (6") jointed with grey cement slurry mixed with pigment to match the shade of the stone including rubbing and polishing complete over Cement mortar screed bed 25 mm thick in CM (1:4) laid over 100mm thick PCC sub base 1:4:8, using 40 mm graded stone aggregate. For Rooms, branded vitrified tiles of approved design. (ii) MS Hand railing with approved design around the verandah. It should connect to the existing verandah of the old construction which is at a gap of 20ft covered with PPGI sheets.
3	<u>Wall :</u> The walls shall be of composite panels made out of two plain GI. Sheet of 18 Gauge thick of the outer, resin bonded with PUF 80mm thick (sandwiched between the GI Sheets). Density shall not be less than 40 kgs/m ³ . The panels to be colour coated white in desired colour. Series of these panels shall be joined together with GI 'H', 'C', 'L', 'Z' and other sections to form the complete wall.
4	<u>Roof</u> . Roof slope shall be 1:4 approx with .50mm PPGL sheets. Span of the structure is 20 ft plus the verandah of 10 feet, which is also to be roofed: the height at eaves shall be 11 feet and 14 feet at centre gable . The roof shall be done with insulated tensile alvalume sheet. The inner and outer surface of each panel shall consist of a 0.5- 0.6mm thick hot dipped high tensile galvalume sheets. PUF density must conform to 40+2 kg/m ³ . The roofing would be laid over a frame works of trusses and purlins pressed using suitable fasteners like screw with works screw with washers and bitumen washers etc. Trusses shall be fabricated with 80mm x 40mm x 4.80mm thick MS hollow rectangular section and purlins should be provided with 50mm x 25mmx4mm thick MS hallow rectangular section. All fitments and materials must confirm to BIS standards.
5	<u>Roof Structure Frame Work.</u> The roof shall be laid over a frame work of trusses, purlins and columns fixed using suitable fasteners, nuts & bolts, Steel & bitumen washers etc. The trusses shall be made using MS hollow rectangular sections of size 80x40x3 mm conforming to IS 4923:1997). The trusses are provided at equal distance of total length 30 feet and shall be supported on columns made using MS Hollow rectangular section pillar of size 96 mm x 48 mm.x 3 mm. The columns shall be fixing with PCC (1:2:4) for 6mm thick MS end plate. The purlins shall be made using MS hollow rectangular section of size 50 x25x3 mm.

Signature of Contractor
 (Duly authorized to sign the tender)
 Date
 Address

Mukul Kataria
Principal
Army Public School
Dhaura Kuan, New Delhi

6	<u>False ceiling.</u> 9mm laminated gypsum tiles laid on exposed grid system with 15mm wide T-Section flanges colour white, main runners are spaced at 1200 mm centers securely fixed to the structure soffit with approved hangers at 1200 mm maximum centers, flush fitting 1200 mm crossed tees to be interlocked between main runners at 600 mm centers to form 1200 x 600 modules, 1200 mm cross tees shall be crimped. 600 x 600 module to be formed by fixing 600 mm long flush fitting cross tees centrally between the 1200 cross tees. Ceiling tiles of in size 600 x 600 x 15 mm to be placed in the grids. Including making necessary cut-outs or opening for light fixtures etc, complete.
7	<u>Door</u> (i) There shall be two doors in each class room. Framework for doors shall be of Aluminum powder coated section of size 101.60mm x 44.50mm x 2mm and shutters having vertical & top rails with section 47.50mm x 44.50mm x 2mm, bottom rail with section 114mm x 44.50mm x 2mm, centre rail with section 84.50mm 44.50mm x2mm, including providing necessary joining cleats, glazing clips, rubber packing, aluminum snap beading screws. (ii) Each door shall be fixed to frame with 6 Nos of 100mm aluminum hinges and shall have 2 Nos 150mm aluminum handles, 2 Nos 200mm aluminum tower bottles, 1 No 100mm mortise lock, 1 No aluminum door stopper, 1 No door closer (extruded section) hydraulically regulated universal type. (iii) Sheet glass of 5.5 mm thick selected quality tinted shall be fixed in top and bottom panels with suitable rubber packing as beading . Make : (Aluminum, Jindal, hindalco, indal, or ahit India; Glass : saint Gobin)
8	<u>Windows:</u> Each shelter shall be provided with weather tight Aluminum powder coated sliding windows of brown/approved colour and size 1 mtr x 1 mtr with 5mm float glass with locking arrangements. On outer face each window shall have complete stainless steel wire gauge as fly proofing and aluminum grill made with 12 mm square bars for security purpose. (Heavy duty 2" thick frames (14 Gauge)-Jindal/India/Hindalco/approved make)
9	<u>Electrical wiring and Fitments (Internal).</u> Complete electrical wiring through PVC conduits with DB's with MCB's. Each shelter shall be provided with 3x15 Amp sockets, 2x5 Amp sockets 7x18w LED tube lights (one over the writing board and three each on the ceiling on to both side of the aisle, 7 x ceiling fans including one over the lecture podium and two heavy duty Exhaust fans with metallic blades following size sweep with gravity louvers shutters Exhaust fans with Metallic blades of 1300mm sweep over the false ceiling in the gable walls including arrangements of grills and wire mesh to prevent the access of insects/buds/water and 02 nos AC points to be provided in classroom. Philips, Havells, Anchor, Orient Make or equivalent approved make. (Fan/Lights and Exhaust Fan to be provided by the Vendor.
10	<u>Electrical (External).</u> External electrical connection from existing take over point within the school campus to the proposed shelters through cabling shall be part of the scope of work.

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 Principal
 Army Public School
 Dhaula Kuan, New Delhi

11	Interlocking : Interlocking tiles in front of the Porta Cabin approx 700 sqr ft and in the gap of 10 ft x 20 ft between the porta Cabin & the existing room. The total area of interlocking is (700 sqr ft + 200 sqr ft = 900 sqr ft approx)
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Note: Overall Dimensions of each class room.

- | | | |
|-------|---------------------------------------|----------|
| (i) | Length | - 30 ft |
| (ii) | Width (excluding Verandah) | - 20 ft |
| (iii) | Clear height (floor to false ceiling) | - 10 ft. |
| (iv) | Width of Verandah | - 20 ft |

Signature of Contractor
 (Duly authorized to sign the tender)
 Date
 Address

Meeta Lathau

Principal
 Army Public School
 Chaula Kuan, New Delhi

FORMAT FOR ELIGIBILITY CRITERIA AND TECHNICAL BID
(AS PER SCOPE OF WORK)

ELIGIBILITY CRITERIA CHECKLIST

<u>S. NO</u>	<u>ITEM</u>	<u>YES</u>	<u>NO</u>
1	EMD of Rs 50,000/- (Rupees fifty thousand only) submitted.		
2	Firm is registered. Certificate of Registration submitted by the bidder.		
3	The firm must have experience of minimum 5 years or more in the same field. Supporting documents (work/sanction orders) submitted.		
4	Firm has executed at least two works of at least 10 lacs (including tax) in the same field in the last ten years. Supporting Work Orders submitted.		
5	The annual turnover of the tenderer is not less than Rs. 50 Lakhs in the field of construction/repairs in at least two of the last five financial years.		
6	Following documents submitted: - (i) Proof of service Tax Number/GST Number, PAN Number. (ii) Income Tax return of last two years.		
7	Undertaking on the firm's letterhead as per Annexure VII submitted by the firm.		
8	Only one tender has been submitted by the firm and no subletting will be done (except structural rehabilitation repairs) if awarded the contract.		

Note :- Please attach self-attested copies of all above documents (less EMD to which will be submitted in separate envelope, duly marked) along with this Annexure.

Signature of Contractor
 (Duly authorized to sign the tender)
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 Address

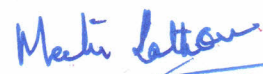
Meeta Kothari
 Principal
 Army Public School
 Dhaula Kuan, New Delhi

ANNEXURE –VI – Continued
FORMAT FOR TECHNICAL BID

S. No	Description	Total Qty (For Both Class Room)	Complied (YES/NO)	Make/ Brand of Items
1	<u>Foundation and Wall incl Verandah.</u> Foundation shall be provided with brick masonry in CM (1:4) with PCC (1:4:8). Depth of foundation will be 2 ft below GL. Above GL up to PL (height - 450mm) over a brick masonry step foundation in cement mortar 1:4, 15 mm thick cement plaster in cement mortar 1:6 will be done on brick masonry above ground level. To be matched to existing nearest building.	2000 Sq ft		
2	<u>Flooring.</u> (i) <u>For Verandah</u> - Kota stone flooring with Jaisalmer stone border (6") jointed with grey cement slurry mixed with pigment to match the shade of the stone including rubbing and polishing complete over Cement mortar screed bed 25 mm thick in CM (1:4) laid over 100mm thick PCC sub base 1:4:8, using 40 mm graded stone aggregate. For Rooms, branded vitrified tiles of approved design verandah school. (ii) MS Hand railing with approved design around the verandah. It should connect to the existing verandah of the old construction which is at a gap of 20ft covered with PPGI sheets .	2100		
3	<u>Wall incl Verandah :</u> The walls shall be of composite panels made out of two plain GI. Sheet of 18 Gauge thick of the outer, resin bonded with PUF 80mm thick (sandwiched between the GI Sheets). Density shall not be less than 40 kgs/m ³ . The panels to be colour coated white in desired colour. Series of these panels shall be joined together with GI 'H', 'C', 'L', 'Z' and other sections to form the complete wall.	2000 Sq ft		
4	<u>Roof</u> . Roof slope shall be 1:4 approx with .50mm PPGL sheets. Span of the structure is 20 ft plus the verandah of 10 feet, which is also to be roofed: the height at eaves shall be 11 feet and 14 feet at centre gable . The roof shall be done with insulated tensile alvalume sheet. The inner and outer surface of each panel shall consist of a 0.5- 0.6mm	2500 Sq ft		

5

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	thick hot dipped high tensile galvalume sheets. PUF density must conform to 40+2 kg/m ³ . The roofing would be laid over a frame works of trusses and purlins pressed using suitable fasteners like screw with washers and bitumen washers etc. Trusses shall be fabricated with 80mm x 40mm x 4.80mm thick MS hollow rectangular section and purlins should be provided with 50mm x 25mmx4mm thick MS hollow rectangular section. All fitments and materials must confirm to BIS standards.			
5	Roof Structure Frame Work. The roof shall be laid over a frame work of trusses, purlins and columns fixed using suitable fasteners, nuts & bolts, Steel & bitumen washers etc. The trusses shall be made using MS hollow rectangular sections of size 80x40x3 mm conforming to IS 4923:1997). The trusses are provided at equal distance of total length 30 feet and shall be supported on columns made using MS Hollow rectangular section pillar of size 96 mm x 48 mm.x 3 mm. The columns shall be fixing with PCC (1:2:4) for 6mm thick MS end plate. The purlins shall be made using MS hollow rectangular section of size 50 x25x3 mm.	2000 KG		
6	False ceiling. 9mm laminated gypsum tiles laid on exposed grid system with 15mm wide T-Section flanges colour white, main runners are spaced at 1200 mm centers securely fixed to the structure soffit with approved hangers at 1200 mm maximum centers, flush fitting 1200 mm crossed tees to be interlocked between main runners at 600 mm centers to form 1200 x 600 modules, 1200 mm cross tees shall be crimped.600 x 600 module to be formed by fixing 600 mm long flush fitting cross tees centrally between the 1200 cross tees. Ceiling tiles of in size 600 x 600 x 15 mm to be placed in the grids. Including making necessary cut-outs or opening for light fixtures etc, complete.	1200 Sq ft		
7	Door (i) There shall be two doors in each class room. Framework for doors shall be of Aluminum powder coated section of size 101.60mm x 44.50mm x 2mm and shutters having vertical & top rails with section 47.50mm x 44.50mm x 2mm, bottom rail with section 114mm x	4 Numbers		

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(Duly authorized to sign the tender)

Date

Address

Meeha Laiton

Principal
Army Public School
Ohaula Kuan, New Delhi

	<p>44.50mm x 2mm, centre rail with section 84.50mm 44.50mm x2mm, including providing necessary joining cleats, glazing clips, rubber packing, aluminum snap beading screws.</p> <p>(ii) Each door shall be fixed to frame with 6 Nos of 100mm aluminum hinges and shall have 2 Nos 150mm aluminum handles, 2 Nos 200mm aluminum tower bottles, 1 No 100mm mortise lock, 1 No aluminum door stopper, 1 No door closer (extruded section) hydraulically regulated universal type.</p> <p>(iii) Sheet glass of 5.5 mm thick selected quality tinted shall be fixed in top and bottom panels with suitable rubber packing as beading . Make : (Aluminum, Jindal, hindalco, indal, or ahit India; Glass : saint Gobin)</p>			
8	<p>Windows: Each shelter shall be provided with weather tight Aluminum powder coated sliding windows of brown/approved colour and size 1 mtr x 1 mtr with 5mm float glass with locking arrangements. On outer face each window shall have complete stainless steel wire gauge as fly proofing and aluminum grill made with 12 mm square bars for security purpose. (Heavy duty 2" thick frames (14 Gauge)- Jindal/India/Hindalco/approved make)</p>	12 Numbers		
9	<p>Electrical wiring and Fitments (Internal). Complete electrical wiring through PVC conduits with DB's with MCB's. Each shelter shall be provided with 3x15 Amp sockets, 2x5 Amp sockets 7x18w LED tube lights (one over the writing board and three each on the ceiling on to both side of the aisle, 7 x ceiling fans including one over the lecture podium and two heavy duty Exhaust fans with metallic blades following size sweep with gravity louvers shutters Exhaust fans with Metallic blades of 1300mm sweep over the false ceiling in the gable walls including arrangements of grills and wire mesh to prevent the access of insects/buds/water and 02 nos AC points to be provided in classroom . Philips, Havells, Anchor, Orient Make or equivalent approved make.(Fan/Lights and Exhaust Fan to be provided by the vendor.</p>	2000 Sq ft		
10	<p>Electrical (External). External electrical connection from existing take over point within the school campus to the proposed shelters through cabling shall be part of the</p>	DV and MCB as per reqd		

7

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Address

Meeta Bhatia
Principal
Army Public School
Ohaula Kuan, New Delhi

	scope of work.			
11	Interlocking : Interlocking tiles in front of the Porta Cabin approx 700 sqr ft and in the gap of 10 ft x 20 ft between the porta Cabin & the existing room. The total area of interlocking is (700 sqr ft + 200 sqr ft = 900 sqr ft approx)	900 Sq ft		

- Note** :- 1. The Bidder must physically inspect the site before submission of Tender Bids.
2. Diagrammatic representation of the structure may please be included.

Signature of Contractor
 (Duly authorized to sign the tender)
 Date
 Address

Martin Rathore
 Principal
 Army Public School
 Dhaula Kuan, New Delhi

FORMAT FOR COMMERCIAL BID (AS PER SCOPE OF WORK)

S. No	Description	Total Qty (for both class rooms)	Rate	Amount
1	Foundation and Wall incl Verandah. Foundation shall be provided with brick masonry in CM (1:4) with PCC (1:4:8). Depth of foundation will be 2 ft below GL. Above GL up to PL (height - 450mm) over a brick masonry step foundation in cement mortar 1:4, 15 mm thick cement plaster in cement mortar 1:6 will be done on brick masonry above ground level. To be matched to existing nearest building.	2000 Sq ft		
2	Flooring. (i) For Verandah - Kota stone flooring with Jaisalmer stone border (6") jointed with grey cement slurry mixed with pigment to match the shade of the stone including rubbing and polishing complete over Cement mortar screed bed 25 mm thick in CM (1:4) laid over 100mm thick PCC sub base 1:4:8, using 40 mm graded stone aggregate. For Rooms, branded vitrified tiles of approved design. (ii) MS Hand railing with approved design around the verandah. It should connect to the existing verandah of the old construction which is at a gap of 20ft covered with PPGL sheets.	2100		
3	Wall incl Verandah : The walls shall be of composite panels made out of two plain GI. Sheet of 18 Gauge thick of the outer, resin bonded with PUF 80mm thick (sandwiched between the GI Sheets). Density shall not be less than 40 kgs/m ³ . The panels to be colour coated white in desired colour. Series of these panels shall be joined together with GI 'H', 'C', 'L', 'Z' and other sections to form the complete wall.	2000 Sq ft		
4	Roof . Roof slope shall be 1:4 approx with .50mm PPGL sheets. Span of the structure is 20 ft plus the verandah of 10 feet, which is also to be roofed: the height at eaves shall be 11 feet and 14 feet at centre gable . The roof shall be done with insulated tensile alvalume sheet. The inner and outer surface of each panel shall consist of a 0.5- 0.6mm thick hot dipped high tensile galvalume sheets. PUF density must	2500 Sq ft		

Signature of Contractor

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Martin Lakshmi
Principal
Army Public School
Dhaura Kuan, New Delhi

	conform to 40+2 kg/m ³ . The roofing would be laid over a frame works of trusses and purlins pressed using suitable fasteners like screw with works screw with washers and bitumen washers etc. Trusses shall be fabricated with 80mm x 40mm x 4.80mm thick MS hollow rectangular section and purlins should be provided with 50mm x 25mmx4mm thick MS hallow rectangular section. All fitments and materials must confirm to BIS standards.			
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6	False ceiling. 9mm laminated gypsum tiles laid on exposed grid system with 15mm wide T-Section flanges colour white, main runners are spaced at 1200 mm centers securely fixed to the structure soffit with approved hangers at 1200 mm maximum centers, flush fitting 1200 mm crossed tees to be interlocked between main runners at 600 mm centers to form 1200 x 600 modules, 1200 mm cross tees shall be crimped.600 x 600 module to be formed by fixing 600 mm long flush fitting cross tees centrally between the 1200 cross tees. Ceiling tiles of in size 600 x 600 x 15 mm to be placed in the grids. Including making necessary cut-outs or opening for light fixtures etc, complete.	1200 Sq ft		

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 Address

M. Lath...
Principal
Army Public School
 Chaula Kuan, New De

7	<p>Door</p> <p>(i) There shall be two doors in each class room. Framework for doors shall be of Aluminum powder coated section of size 101.60mm x 44.50mm x 2mm and shutters having vertical & top rails with section 47.50mm x 44.50mm x 2mm, bottom rail with section 114mm x 44.50mm x 2mm, centre rail with section 84.50mm 44.50mm x2mm, including providing necessary joining cleats, glazing clips, rubber packing, aluminum snap beading screws.</p> <p>(ii) Each door shall be fixed to frame with 6 Nos of 100mm aluminum hinges and shall have 2 Nos 150mm aluminum handles, 2 Nos 200mm aluminum tower bottles, 1 No 100mm mortise lock, 1 No aluminum door stopper, 1 No door closer (extruded section) hydraulically regulated universal type.</p> <p>(iii) Sheet glass of 5.5 mm thick selected quality tinted shall be fixed in top and bottom panels with suitable rubber packing as beading . Make : (Aluminum, Jindal, hindalco, indal, or ahit India; Glass : saint Gobin)</p>	4 Numbers		
8	<p>Windows: Each shelter shall be provided with weather tight Aluminum powder coated sliding windows of brown/approved colour and size 1 mtr x 1 mtr with 5mm float glass with locking arrangements. On outer face each window shall have complete stainless steel wire gauge as fly proofing and aluminum grill made with 12 mm square bars for security purpose. (Heavy duty 2" thick frames (14 Gauge)- Jindal/India/Hindalco/approved make)</p>	12 Numbers		
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Signature of Contractor

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Meeva Lathu

Principal
Army Public School
Dhaura Kuan, New Delhi

	make.(Fan/Lights and Exhaust Fan to be provided by the Vendor.			
10	Electrical (External). External electrical connection from existing take over point within the school campus to the proposed shelters through cabling shall be part of the scope of work.	DV and MCB as per reqd		
11	Interlocking : Interlocking tiles in front of the Porta Cabin approx 700 sqr ft and in the gap of 10 ft x 20 ft between the porta Cabin & the existing room. The total area of interlocking is (700 sqr ft + 200 sqr ft = 900 sqr ft approx)	900 Sq ft		
		Total		
		GST		
		Grand Total		

Total (in figure) : _____

Total (in word) : Rupees _____

Note: -

1. The bidder should inspect at the site before filling the tender.
2. The contractor shall quote the rates as per format of above table indicating job cost and GST/TAXES separately.
3. All the taxes, GST etc. complete and no extra amount will be paid on this account. The contractor who does not quote the rates, the tender of that contractor shall be rejected out rightly.
4. All the material should be of good quality and of reputed market brands for use in work. No material shall be supplied by the APS. Quantity/amount can be increased or decreased.
5. The terms and conditions mentioned in the tender document will be considered to the benefit of the APS if any duplicity in terms and conditions mentioned in the tender arises.

Signature of Contractor
 (Duly authorized to sign the tender)
 Date
 Address

Munish Lalhau
Principal
 Army Public School
 Dhaura Kuan, New Delhi