

**Bid Document**

<b>Bid Details</b>	
Bid End Date/Time	20-02-2019 11:00:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	15 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	N/a
Office Name	Project Arunank Border Roads Organisation
Total Quantity	2
Item Category	Prefab Hut/House of size 6.10 M X 7.32 M - As per GeM Drawing
MSE Exemption For Years Of Experience And Turnover	No

**Prefab Hut/House Of Size 6.10 M X 7.32 M - As Per GeM Drawing ( 2 )**

**Technical Specifications**

[\\* As per GeM Category Specification](#)

<b>Specification</b>	<b>Specification Name</b>	<b>Values</b>	<b>Allowed Values</b>
GENERIC	<b>Type of Prefab HUT/House</b>	With Partition Wall Conforming to GeM DRG. NO.116 (VERSION-2015)	Without Partition Wall Conforming to GeM DRG. NO.115 (VERSION-2015), With Partition Wall Conforming to GeM DRG. NO.116 (VERSION-2015)
	Pre-fabricated huts having	with Partition Wall - with Verandah - 4 Doors - 3 windows - 1 Ventilator - 2 fabricated steel trusses and false ceiling - attached Kithchen + Toilet (Ref. Drg. no. 116)	*
	<b>Roof Type of Prefab</b>	Roof of corrugated	Roof of corrugated

<b>HUT/House</b>	prepainted galvanised steel sheet	galvanised steel sheet, Roof of corrugated prepainted galvanised steel sheet
<b>Pre-fabricated Huts to be manufactured by using</b>	Double skin insulated flat cement sheet/ board (asbestos fibre) panels for wall and CGI sheet roof	Double skin insulated flat cement sheet/ board (asbestos fibre) panels for wall and CGI sheet roof
<b>Scope of supply (Offer Price to include all cost components)</b>	Supply, Installation, Testing and Commissioning of Hut/House	Supply, Installation, Testing and Commissioning of Hut/House
<b>Transpotations / Freight charges</b>	Offer Prices are on Free Delivery at Consignee site basis.	Offer Prices are on Free Delivery at Consignee site basis.
<b>Approval of Advance sample before Bulk Supply</b>	After award of contract, Seller shall have to get Advance sample approved from Buyer before manufacturing / starting Bulk supplies. Buyer shall approve / provide list of modifications required within 10 days of offer of advance sample. If there is delay in approval of advance sample from Buyer side, the delivery period shall be regularized for the period of delay in sample approval.	After award of contract, Seller shall have to get Advance sample approved from Buyer before manufacturing / starting Bulk supplies. Buyer shall approve / provide list of modifications required within 10 days of offer of advance sample. If there is delay in approval of advance sample from Buyer side, the delivery period shall be regularized for the period of delay in sample approval., No Advance Sample
<b>Foundation for Prefab Hut</b>	Building of Foundation at site shall be the responsibility of the Consignee and the Seller shall Install / Erect and Commission the structure on the foundation constructed upto plinth level by the Consignee.	Building of Foundation at site shall be the responsibility of the Consignee and the Seller shall Install / Erect and Commission the structure on the foundation constructed upto plinth level by the Consignee.
<b>Time Period for Completion of Erection work at site by Seller</b>	Within 45 days of the date of receipt of consignee's confirmation regarding completion of ground and foundation work	Within 45 days of the date of receipt of consignee's confirmation regarding completion of ground and foundation work, Within 60 days of the date of receipt of

			consignee's confirmation regarding completion of ground and foundation work
	<b>Payment Terms</b>	Bill / invoice to be submitted in two parts by seller (80% and 20%). Payment for initial 80% to be made within ten (10) days of receipt of goods by consignee. Bill for balance 20% to be raised by seller after completion of installation / commissioning , and to be released by Buyer with in ten (10) days of issue of consignee receipt-cum-acceptance certificate after Successful installation / Commissioning	Bill / invoice to be submitted in two parts by seller (80% and 20%). Payment for initial 80% to be made within ten (10) days of receipt of goods by consignee. Bill for balance 20% to be raised by seller after completion of installation / commissioning , and to be released by Buyer with in ten (10) days of issue of consignee receipt-cum-acceptance certificate after Successful installation / Commissioning
	<b>Suitability / structural stability / completeness of structures, the structure is intended for use in</b>	In wind condition of 55m/s, in Seismic zone V and ambient temperature of 0 degree C to 50 degree C. Huts should be structurally stable and suitable to meet severity of these climatic condition.	In wind condition of 55m/s, in Seismic zone V and ambient temperature of 0 degree C to 50 degree C. Huts should be structurally stable and suitable to meet severity of these climatic condition.
	<b>Type of glass fitted on windows/Ventilators</b>	Pin head type,Plain	Pin head type, Plain
DESIGN / MATERIAL OF WALL PANELS	Design of wall panel	As per GeM DRG. NO.121 & 123(VERSION-2015)	*
	<b>Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to</b>	IS 14276 Latest as amended uptodate,Category 3 Type B of IS 14862:2000 latest as amended up to date	IS 14276 Latest as amended uptodate, Category 3 Type B of IS 14862:2000 latest as amended up to date
	Sandwich material - 27 mm gap in between wall skins to be filled with	27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I	*

	(Latest)	
Panel Strengthened On all four sides	By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil	*
Cement sheet and expanded polystyrene core to be bonded together using bonding material	PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted	*
'U' shaped ground /track size (panels to be inserted one by one)	52.5mm X 35mm X 1.25mm made from GI steel sheet / coil	*
Bottom track to be fixed	To the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap	*
Interlocking of wall panel(lengthwise)	using cold-formed rectangular hollow steel section of size 50mm X 25mm X 1.25mm	*
Wall corners to be concealed	With corner angle of 125mm X 125mm X 1.25mm made from GI steel sheet / Coil	*
Top of walls to be concealed	With 'U' shaped top track of size 52.5mm X 35mm X 1.25mm made from GI steel sheet / coil	*
Sellers are free to adopt higher sizes/reinforcement	For better fitment or mating of components or for improved stability	*
FALSE CEILING	Design of false ceiling	As per GeM DRG. NO.127(VERSION-2015)
	<b>False ceiling of Size 610mm X 1220mm made of One number cement flat board (6mm thick-Asbestos free) bonded with expanded polystyrene core (32mm thick) having</b>	IS 12476/Latest, Category 3 type B of IS 14862/Latest

	<b>bulk density of 15Kg/Cum conforming to IS 4671/Latest Cement Flat Board conforming to</b>		
	Roof Cement sheet and expanded polystyrene core to be bonded together using bonding material	PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted	*
	False ceiling panels to be placed on suspended grid frame of sides	610mm X 1220mm made from GI "L" & "T" sections of 0.63mm conforming to IS 277/Latest having min. GSM of 120gms	*
	False ceiling grid to be suspended from the roof frame work with the help of galvanised wire of dia (minimum)	3 mm	*
	Finished clear Height of false ceiling	2600 mm	*
	Waterproofness of false ceiling panels	To be properly packed with polythene sheets	*
ROOF & ROOF FRAME WORK	Design of roof	As per GeM DRG. NO.119(VERSION-2015)	*
	Wall height at eaves and central gable	2750mm at eaves and 3360mm at central gable	*
	<b>Roof to be done with</b>	Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/Sillicon modified Polyester having thickness of 20 micron	Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/Sillicon modified Polyester having thickness of 20 micron

	(Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron(Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table -1 of IS :14246:2013. (Colour shade of exterior finish shall be Olive Green of colour code RAL6028.The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.	(Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron(Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table -1 of IS :14246:2013. (Colour shade of exterior finish shall be Olive Green of colour code RAL6028.The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.
Roof to be laid over	Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts.	*
Size of Ridge cover to be fixed on top junction of roof of same material as Roof	225 X 225 X 0.63 mm	*
Roof slope	1:4(approx)	*
Purlin to be provided on the roof	Of size 66 X 33 X 2.9mm at the eaves and at gable roof extension(out side the structure)	*
Roof projection in case of no verandah(in front)	Min. 400mm from the eaves wall and 300mm from gable walls	*
Roof projection	As per GeM DRG. NO.109 & 119(VERSION-2015)	*
Purlin provided on the trusses	At a max. pitch of 1000 mm or less and are fixed and flushed with the top level of trusses with the help of 5mm thick MS end plates and 10mm nuts/bolts	*

	Column to be welded	With 5mm thick MS end plate and to be fixed to the foundation bolts through this plate	*
	Trusses / purlins to be fixed	Using 5mm thick MS end plates and 10 mm nuts and bolts	*
	Trusses (supported on truss column) provided at a distance of	2440 mm	*
	Trusses and Purlin to be made of	Rectangular hollow sections of size 66 X 33 X 2.9 mm conforming to IS 4923/Latest duly ISI marked	*
	Truss columns to be made of	Rectangular hollow steel sections of size 96 X 48 X 3.2mm conforming to IS 4923/Latest duly ISI marked	*
	Roof structural frame work	As per GeM DRG. NO.119-120a-120b & 121(VERSION-2015)	*
Kitchen and Toilet	Kitchen size	2440mm x 1830mm	*
	Toilet size	2440mm x 1830mm	*
	Internal Partition wall height	2740mm	*
VERANDAH & DOORS	Width of verandah	1525 mm	*
	Clear height of verandah	2280 mm	*
	Verandah roof to be made of	GI (continuous provided along the roof of the structure)	*
	Purlin provided to verandah structure	To be made of rectangular hollow steel sections of size 66x33x2.9mm and are fixed and flushed with the top level of the truss extension member with the help of 5mm thick MS end plates and 10mm nut/bolts.	*
	Verandah columns to be made of	rectangular hollow steel sections of size 66x33x2.9mm fixed with help of 5mm thick MS end plates and	*

		10mm nuts/bolts at top level and at leveled base by using 5mm thick MS end plates and 4nos. 12mm dia-305mm long foundation bolts.	
	Door frame to be made from	Pressed steel four sided frame using CR steel of size 75x45x1.5mm thickness confmg. to IS 513/latest	*
	Door Hinges	4nos. 100mm MS hinges welded on to the frame	*
	Door shutter made of	30 mm thick flush door confmg. to IS 2202(part-1)/latest	*
	Door shutter to be fixed with	Door frame with 4nos. MS oxidized hinges of 100mm length	*
	Door aldrops	To be provided 2nos. MS oxidized of 300mm length	*
	Door tower bolts	MS oxidized of size 200mm at top and 100mm at bottom on each shutter	*
	Door handles	2nos. 150mm long handles	*
WINDOWS & VENTILATORS	Windows	As per GeM DRG. NO.125(VERSION-2015)	*
	Ventilators	As per GeM DRG. NO.126(VERSION-2015)	*
	Frame material of windows/ventilators	Made from pressed steel using CR steel of size 75 X 45 X 1.5mm (thickness) conforming to IS 513/Latest	*
	Hinges for windows	6 Nos. 75mm MS butt hinges welded on to the frame	*
	Hinges for ventilators	2 Nos. 75mm MS butt hinges welded on to the frame	*
	Grills for Windows/Ventilators	Made from MS square bar of 8mm having equal spacing of 125mm	*
	<b>Shutter material for</b>	Made out of steel	Made out of steel



	<b>windows/ventilators</b>	rectangular hollow box profile of 1.25mm thick as per drawing,Fabricated type	rectangular hollow box profile of 1.25mm thick as per drawing, Fabricated type
	Each window shutter consist of	MS oxidized handle of 150mm - 2 Nos. MS oxidized tower bulls of 100mm and 1 No. window stay.	*
	Each ventilator shutter(Internal) consist of	1 No. stay hook	*
	Glass sheet for windows/ventilators	Of 4mm thickness to be fixed using glass putty	*
ELECTRICAL WIRING & FITMENTS	Electrical points/sockets/fan regulators/gang way boxes	To be provided ISI mark as per table in annexure B	*
	Main switch board	Comprising of SP/DP MCBs to be supplied in addition	*
	cables and PVC conduit	Adequate quantity to be provided	*
	Electrical installation/completeness	Seller is fully responsible for wiring etc. (except light fittings)	*
	Fan regulator	Conforming to IS 11037/Latest	*
COLOUR & FINISH	Corrugated GI sheets and ridge cover	Confmg. to IS 277/Latest and have a min. galvanizing coating of 275gsm	*
	Other GI profiles	Confmg. to IS 277/Latest and have a min. galvanizing coating of 120gsm	*
	MS steel members	To be supplied with one coat of red oxide primer coating	*
	Internal wall panels	To be one coat of cement primer and two coats of white oil bound distemper	*
	External wall panels	To be one coat of cement primer and two coats of enamel paint	*
	Colour/Shade of paint	As per buyer's choice	*

	Primers to be used	As per buyer's choice	*
	Paints to be used	As per buyer's choice	*
WARRANTY	<b>Warranty period in number of years</b>	2	1, 2, 3 Or higher
CERTIFICATION	Test reports to be furnished to buyer's on demand	YES	*

\* Bold specifications are the golden parameters.

### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Mohinder Paul	791125, OFFICER COMMANDING 1033 IESPL (GREF) BORDER ROADS ORGANISATION C/O 99 APO PIN-791125	2	15

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

### Special terms and conditions for category Prefab Hut/House of size 6.10 M X 7.32 M - As per GeM Drawing

1) Scope of supply includes Supply, Installation, Testing and Commissioning of Hut/House hence Offer Price to include all these cost components. Further, Offer Prices are on Free Delivery at Consignee site basis hence Transpotations / Freight charges are to be included in Offer price. Building of Foundation at site shall be the responsibility of the Consignee and the Seller shall Install / Erect and Commission the structure on the foundation constructed upto plinth level by the Consignee. Bill / invoice to be submitted in two parts by seller (80% and 20%). Payment for initial 80% to be made within ten (10) days of receipt of goods by consignee. Bill for balance 20% to be raised by seller after completion of installation / commissioning , and to be released by Buyer with in ten (10) days of issue of consignee receipt-cum-acceptance certificate after Successful installation / Commissioning. In case advance sample is required, after award of contract, Seller shall have to get Advance sample approved from Buyer before manufacturing / starting Bulk supplies. Buyer shall approve / provide list of modifications required within 10 days of offer of advance sample. If there is delay in approval of advance sample from Buyer side, the delivery period shall be regularized for the period of delay in sample approval.

### Buyer Specific Additional Terms and Conditions

1. **Scope of supply (Bid price to include all cost components)** : Supply Installation  
Testing Commissioning of Goods and Training of operators and providing Statutory  
Clearances required (if any)

[This Bid is also governed by the General Terms and Conditions](#)

**---Thank You---**