

**TENDER**

***FOR***

***CONSTRUCTION OF WAREHOUSE FOR CONDOM PLANT  
AT HLL KANAGALA FACTORY, BELGAUM***

**PART-III  
PRICE BID**

**TENDER NO. HLL/ID/ 14/60  
NOVEMBER 2014**

**HLL LIFECARE LIMITED  
INFRASTRUCTURE DEVELOPMENT DIVISION**

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## **1 COMMERCIAL CONDITIONS**

- 1.0.1 The tendered rate shall inter alia be deemed to include for the provision of all materials, process, operation and special requirements detailed in the particular specification irrespective of whether these are mentioned in the description of equipment schedule and Bill of quantities or not. It is an express condition of the contract that the tendered rates for various items in the Bill of Quantities shall be deemed to include for the full, entire and final condition of the contractor respective items of the works in accordance with the provision of the contract.
- 1.0.2 The tendered rate shall include for all taxes, duties, etc. as applicable and shall be quoted on the works contract basis for Construction of Warehouse for Condom Plant at HLL Kanagala Factory, Belgaum, Karnataka.
- 1.0.3 The quoted price shall be inclusive of all taxes and duties whether payable by the contractor or to be deducted at source. This shall include those applicable among VAT, Sales Tax, Income Tax, Customs Duty, Excise Duty, Turnover Tax, Service Tax, Work Contract Tax, Octroi, Labour Welfare Cess Or any Other Taxes and Duties prevailing in respect of this contract. Any bid stating that taxes are extra will be summarily rejected.
- 1.0.4 The tendered rate shall remain firm and free from variation due to rise in the cost of materials/equipment, labour or any other reasons whatsoever during the contract period and valid extension on the case may be.**
- 1.0.5 The quantum of excise duty included in the tendered price, the rate at which they were assumed etc. shall be indicated in the tender.

### **1.1 UNIT RATES**

- 1.1.2 Only approved work will be measured on completion and priced as per rates quoted against the respective items.

### **1.2 BRIEF DESCRIPTION OF PRICING**

- 1.2.1. Unforeseen difficulties for which provision has not been made in the tender will in no way relieve the successful tenderer from the full execution of the work.

1.2.2 The price quoted shall be the final amount for this finished work.

### **1.3 INCOME TAX**

Any payment to the contractor as per contract will be made after deducting income tax as per the rules and regulations.

### **1.4 SALES TAX AND EXCISE DUTY**

The tenderer shall clearly indicate sales tax, Excise and other duties as applicable in his offer for carrying out this work.

### **1.5. SUBMISSION OF BILL**

1.5.1. The contractor shall from time to time prepare and submit interim bills of the work executed and on completion of the contract, he shall prepare and submit the final bill. The measurements sheets in support of the interim and final bills shall be prepared by the contractor on the basis of measurements taken by him jointly with the project engineer and the said measurement sheets shall be submitted by him with the relevant bill.

### **1.6. EXTRA ITEMS**

The contractor is bound to carry out any items of work necessary for the completion of the job even though such items may not have been included in the schedule of probable quantities or rates, such items being necessary or essential for completing the job. Variation order in respect of such additional items and their quantities will be issued in writing by the employer.

1.6.1 All shavings, cuttings and other rubbish as it accumulates from time to time during the progress of work and on completion including that of the sub-contractors and special tradesman and all materials condemned by the project engineer shall be cleared and removed from the site by the contractor without any extra charge.

1.6.2 All measuring steel taps, scaffolding, ladders instruments and tools that may be required for taking measurements shall be supplied by the contractor.

## **1.7. OVER TIME WORK**

If the contractor is required to work night or on holidays in order to maintain the time schedule he shall take prior approval from the Engineer-in-charge. He should also provide and maintain at his own cost sufficient lights as may be necessary to enable the work to proceed satisfactorily during the night.

1.8.1. The contractor shall give full facilities to all other contractors working on site. He shall also arrange his programme of work so as not hinder the progress of other trades. The decision of the Engineer-in-charge on any point of dispute between the various parties shall be final and binding.

1.8.2. It is specifically pointed out that the contractor shall not be entitled to any compensation whatsoever on account of delay in procurement or supply of controlled materials and the rates quoted in the contract are fixed till the completion of the contract.

1.8.3. The contractor shall co-operate with other agencies appointed by the owners for the work to proceed smoothly with the least possible delay and to the satisfaction of the owners, architects and the consultants.

1.8.4. The owners shall provide a source for power supply at one convenient point at site. The contractor shall at his own cost install a separate meter at the said source and lay additional cables from the said source also at his own cost. For the electricity consumed by the contractor he shall pay the owner the actual cost at the rate charged by the local authority for power for constructional purposes. The contractor shall also obtain the necessary permit for utilizing power for constructional purposes.

## **2. SPECIAL CONDITIONS**

### **2.1. Scope of Work**

The scope of work is to construct a pre-engineered steel building adjacent to the existing SNP building including Soil Investigation, Structural Design and preparation drawings, Obtaining Structural design & drawings approved by IIT/ regional engineering college or any agency nominated by HLL and HLL, Engineering, and Preparation of erection drawings, other structural/ civil/ architectural/ Electrical drawings, manufacture, supply, loading, transportation, unloading and erection of the Pre-Engineered Building of plinth area of 305.5 Sq.M and mezzanine floor of 225.5 SqM including electrical, finishing and interior works.

The basic structural design philosophy and loading assumptions including dead loads, imposed loads, wind loads & seismic loads to comply with relevant BIS Codes prevailing at the time of design. All primary and secondary structural members shall be supplied with two coats of zinc chromate primer and two coats of synthetic enamel paint (brush applied) at site.

- The structural design document is to be reviewed by HLL appointed third party PEER Review consultant / reputed universities and should be submitted in hardcopy (4 sets) as well in softcopy (DWG format).
- Quote for the unit against the schedule, along with all options. The price is to include all spare parts; documentation; packing; freight charges; start-up & commissioning, and charges whatsoever required to complete the task in all respects to ensure the building in accordance with the requirements of design documents.

### **EXECUTION WORK**

- 2.2. The whole of the work as described in the contract (including bills of materials, specification and all drawings pertaining thereto) and as advised by the Engineer-in-charge from time is to be carried out and completed in all parts to the entire satisfaction of the Employer. Any minor details of construction which are obviously and fairly intended, or which may not have been definitely referred to in this contract, but which are usual construction practice and essential to the work, shall be included in this contract.

### **2.3. CERTIFICATE OF COMPLETION**

- 2.3.1 The contractor shall intimate to the Engineer-in-charge in writing as and when the works are completed and put into beneficial use in order to enable the consultants to check certify to the owners to take over the plants.
- 2.3.2 The work shall not be considered as completed and put into beneficial use until the consultants have certified in writing that the same has been completed and put into beneficial use.
- 2.3.3 The defects liability period shall be one year and it shall commence from date of such completion or any specific date mentioned therein.

## **2.4 Payment Terms**

- i. 25 % of the contract value as advance against bank guarantee for equal amount and submission of Performance Security of 5% of contract value. The advance above bear simple interest at the rate of 10 per cent per annum.
- ii. 35% - on prorata basis on delivery of materials at site
- iii. 40% - upon successful erection and commissioning at site

## **2.5 Design & drawings / Design & Construction Schedule :**

Once appointed, the contractor shall provide the following for approval before execution:

- 1. List of makes / components
- 2. Shop drawings
- 3. As Built drawings
- 4. Soil Investigation report done by an agency approved by HLL.
- 5. Structural analysis (Soft & hard copies) and design calculations, Design drawings and coordination drawings for approval. Structural work shall be executed only after design approval by IIT or Third party consultant approved by HLL
- 6. Detailed schedule of activities (design & execution) including resource plan & cash flow statement.

**The stipulated timelines mentioned as per NIT for the above documentation / approval shall be adhered with.**

**LIST OF APPROVED MAKES / AGENCIES FOR CIVIL**

<b>S. No</b>	<b>Materials</b>	<b>Manufacturers / Agencies</b>
1.	Reinforced Cement Concrete	Weigh batching can be done at site or RMC can be procured from reputed manufacturers with prior approval of Engineer in Charge
2.	Ordinary Portland Cement (Minimum 43 Grade)	UltraTech, RAMCO, India Cements, Birla (Grasim), ACC
3.	Reinforcement/Structural Steel (Each LOT shall accompany manufacturer's Test Certificate)	SAIL, TISCO, RINL or BIS approved manufacturers
4.	Stainless Steel	Salem Steel or as approved by E-in-C
5.	White Cement	JK Cement, Birla White
6.	Sand	River sand or M sand after approval of the sample by E-in-C to comply with CPWD spec.
7.	Bricks, Stones slabs, Lime, Neeru Stone aggregate	Samples to be got approved by E-in-C before use
8.	Aluminium Fittings	Everite, Garnish, Crown Classic
9.	Hydraulic floor Spring	Everite, Garnish, Hardwyn
10.	Aluminium Extruded Sections	Jindal, Hindalco, Indalco
11.	Aluminium Doors/Windows	As approved by E-in-C
12.	Paints, Distempers	Jenson & Nicholson, Asian, ICI, Nerolac
13.	Glazing	Float Glass of Modiguard or Saint-Gobain
14.	Water proofing Works	As approved by E-in-C
15.	Hydraulic Door Closers	Hardwyn, Everite, Garnish
16.	Water Proofing Cement Paint	Showcem India, ICI, Nerolac



17.	Ceramic Glazed Floor Tiles	Nitco, Orient, Kajaria, Somany, Naveen
18.	Super plasticizer	CICO, MC Bauchemie (India) Pvt Ltd, Roffes Construction Chemicals, Pedilite Industries
19.	Clean room false ceiling	iCLEAN / GMP Tech / Resolved
20.	Steel Door	Shakti Met - Dor ltd / iCLEAN / GMP Tech / Resolved
21.	Curtain/Wall/Structural Glazing	Specialist Agency to be employed with Prior Approval of E-In-C
22.	Plywood Products, Particle Boards & Veneers	Duroply (Green Marked, BWR Century Plywood, Green Plywood Kitply, Mysore Boards
23.	Adhesive	Pidilite, Araldite
24.	Plastic Laminates	Formica, Greenlam, Bakelite HYLAM
25.	Powder Coatings	Berger/Nerocoat/Jenson & Nicholson
26.	Tile Joint Filler	Bal Adhesives & Grouts,"ROFFE" Rainbow Tile Mate, Silicon Sealnet of GE Bayer Silicon/"Zentrival FM" of MC-Bauchemie (India) P Ltd
27.	Resin Bonded Glass Wool	Crown Fibre Glass/Rock lloyd or equivalent approved by E-in-C
28.	Roof Water Proofing	India Water Proofing, CICO, SIKA
29.	Silicon Sealant	GE Bayer Silicone, SIKA
30.	Anchor Fastener	Hilti, Bosch
31.	Formwork Release Agent	Fosroc, MBT, MC Baucheme CICO, ADO Conmat
32.	EPOXY	FOSROC. SIKA Qualcrete, Aradlite MBT
33.	Clean room wall panel	iCLEAN / GMP Tech / Resolved
34.	Precoated Galvanised Steel Sheet	Tata BlueScope / Llyod Insulations India Ltd/

		S.R.Metals / Jindal
35.	Grouting	Fosroc/Weber(saint gobin)/gantex
36.	SS Turbo Vent	Real green Engineers/naturalairventindia
37.	Steel Structure	SAIL/VIZAG/TATA/Jindal
38.	Nut/bolts and screws	GKW/Atul

## **BILL OF QUANTITIES**

**The quote shall include cost for all the works in the attached BOQ as specified in the scope of work in Section I of technical bid document and Special conditions in price bid document. The quote shall include all applicable taxes and duties.**

Name of the work: Construction of Warehouse for Condom Plant at KFB, Belgaum			
Summary			
Sl. NO	DESCRIPTION	Amount (in Rs ) in Figures	Amount (in Rs ) in Words
1	Part - A : DESIGN WORK		
2	PART B - CIVIL WORK		
3.0	PART C - PEB WORK		
4.0	PART D - Electrical Work		
	<b>Grand Total</b>		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
		<b>PART A - DESIGN WORK</b>				
1	LMR	Design and preparation of detailed drawing for PEB structure length of 16 m c/c steel line 18.23 m c/c of steel line 2 bay 3 frames @ 8 m spacing etc as per standard (PEB structure and RCC (Footing, Column pedestal, plinth beam, column, tie beam) loading platform, mezzanine in steel structure, Floor plan, roof plan, elevation for all sides, layout and section drawings) including submission, approval, soil investigation and Design Proof check in coordination with HLL. As per detailed scope mentioned in Special Conditions Clause 2 including site survey, soil investigation and third party design approval etc.	1.00	LS		
		<b>Total of Part - A</b>				
		<b>PART B - CIVIL WORK</b>				
2	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. <b>All kinds of soil.</b>	142.00	Cum		
3	16.3.10	Supplying and stacking at site. - Moorum	326	Cum		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
4	2.25	Filling available earth/Moorum (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.	468	Cum		
5	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. <b>All kinds of soil.</b>	23.00	Cum		
6	2.27	Supplying and filling in plinth with river sand under floors, including watering, ramming, consolidating and dressing complete.	46.00	Cum		
7	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	950.00	100 Sqm		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
8	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	42.00	Cum		
9	4.10	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).	14.00	Sqm		
10	4.13	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	14.00	Sqm		
11	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	74.00	Sqm		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
12	5.33.1	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping 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. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). All works upto plinth level	49.00	Cum		
13	5.33.2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping 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. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). All works above plinth level upto floor V level	22.00	Cum		
14	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	7.10	Quintal		



SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
15	5.34.1	Extra for providing richer mixes at all floor levels :Providing M-30 grade concrete instead of M-25 grade B.M.C/ R.M.C.	18.00	Cum		
16	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
a	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	72.00	Sqm		
b	5.9.5	Lintel beams, Plinth beams, girders, bressumers and cantilevers.	210.00	Sqm		
c	5.9.6	Columns, pillars, piers, abutments, posts, and struts.	76.00	Sqm		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
d	5.9.15	Weather shade, Chajjas, corbels etc., including edges	52.00	Sqm		
17	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete at all level Thermo-Mechanically Treated bars	9100	Kg		
18	6.4.2	Brick work 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 in all shapes and sizes in :Cement mortar 1:6 (1 cement : 6 coarse sand)	30.00	Cum		
19	7.1.1	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) upto plinth level with :Cement mortar 1:6 (1 cement : 6 coarse sand)	38.00	Cum		

Sl.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
20	9.48.2	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc.	690.00	Kg		
21	10.6.1	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. 80x1.25 mm M.S. laths with 1.25 mm thick top cover	15.00	Sqm		
22	10.7	Providing and fixing ball bearing for rolling shutters.	1.00	Each		
23	10.8.1	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 10.00 sqm and upto 16.80 sqm in the area	15.00	Sqm		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
24	11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	344.00	Sqm		
25	11.6.1	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement. 18mm thick	16.00	Sqm		
26	13.1.2	12mm plaster 1:6 (1 cement: 6 fine sand)	156.00	Sqm		
27	13.3.2	20mm plaster 1:6 (1 cement: 6 fine sand)	218.00	Sqm		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
28	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer	374.00	Sqm		
29	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	218.00	Sqm		
30	13.48.1	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.	156.00	Sqm		
31	13.48.3	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	81.00	Sqm		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
32	13.80	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.	156.00	Sqm		
33	21.1.1.2	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): <b>For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)</b>	210.00	Kg		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
34	21.1.2.2	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) <b>:For shutters of doors, windows &amp; ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)</b>	240.00	Kg		
35	21.3.1	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): <b>With float glass panes of 4.00 mm thickness</b>	26.00	Sqm		
36	21.11.2	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in- charge complete. 255 X 19 mm	42.00	Each		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
37	21.8.1	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width	59.00	Metre		
		<b>Total of Part – B</b>				
		<b>PART C - PEB WORK</b>				
38	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. - <b>PEB Structure</b>	42,000	Kg		
39	13.48.3	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	2,100	Sqm		



SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
40	LMR	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. including Puf (40 kg/cum) and bottom sheet aluminum foil / PPGI - <b>including fibre glass panels of 3.9 kg/m2 as per IS 8183, 50/100 mm thick, with a vapor barrier (foil scrim Kraft / reinforced white vinyl/reinforced white vinyl/reinforced white metalized film scrim kraft facing). Density shall be no less than 16 Kg/m3. Roof puff panel</b>	326.00	Sqm		
41	12.5	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. - <b>Wall Cladding</b>	219.66	Sqm		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
42	12.51.1	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : <b>Ridges plain (500 - 600mm)</b>	37.00	Metre		
43	12.51.2	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : <b>Flashings/ Aprons.( Upto 600 mm)</b>	60.00	Metre		
44	12.51.5	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : <b>Crimp curve</b>	10.00	Sqm		
45	12.51.5	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : <b>Gutter .(600 mm over all girth)</b>	33.00	Metre		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
46	12.41.2	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, <b>(i) Single socketed pipes. 110 mm diameter</b>	45.00	Metre		
47	12.42.6. 2	Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for 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. <b>Shoe (Plain) - 110 mm Shoe</b>	10.00	Each		
48	LMR	<b>Turbo Ventilator (600 mm)</b> - Vortex Blades :- Industrial grade Aluminum; 42 vens of 0.5 mm thick. Turbine Shaft :- S.S. 304. Vertical & Horizontal bracings :- S.S. 304. Ball Bearings :- Double Shielded Deep Groove ( maintenance free ) Bearing Housing :- S.S. 304. Size :- 24" dia. ( i.e. 600 mm). Output of Ventilators :- 2300 m3 / hr. $\pm$ 10 %. The above mentioned output is guaranteed in ideal condition i.e. wind velocity :- 6 Km / Hr. Temperature difference :- 3 <sup>o</sup> -4 <sup>o</sup> C. ( in ideal condition) including base FRP sheet with suitable colour.	4.00	Each		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
49	LMR	Providing and Fixing Roof panel DLP HR GRP3 Ultra Violet stabilized (Polycarbonate sheet) - Day light panel with suitable thickness fixing with self drilling/self tapping screws complete including waterproofing sealant to avoid leakage.	28.00	Sqm		
		<b>Total of Part - C</b>				
		<b>PART D - Electrical Work</b>				
50	1.1.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. - <b>Group C</b>	145.00	Point		
51	1.20	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	4.00	Point		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
52	1.7.1	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required - <b>2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire</b>	225.00	Metre		
53	1.7.2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required - <b>2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire</b>	680.00	Metre		
54	1.7.3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required - <b>2 X 4 sq. mm + 1 X 4 sq. mm earth wire</b>	370.00	Metre		
55	1.20.1	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. - <b>20 mm</b>	60.00	Metre		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
56	1.20.2	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. - <b>25 mm</b>	80.00	Metre		
57	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	10.00	Each		
58	1.27.1	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. <b>1 or 2 Module (75mmX75mm)</b>	2.00	Each		
59	1.33	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	16.00	Each		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
60	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	72.00	Each		
61	1.47	Supplying and fixing extra down rod of G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	180.00	Metre		
62	2.8.5	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator) - <b>4 way (4 + 12), Double door</b>	2.00	Each		

SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
63	2.14.2	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. <b>40 amps</b>	2.00	Each		
64	2.10.1	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. <b>Single pole</b>	42.00	Each		
65	LMR	Supplying and installing 150mm X 50mm depth X 1.6mm thick of perforated GI cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.	60.00	Metre		
66	LMR	Supplying and installing 300mm X 50mm depth X 1.6mm thick of perforated GI cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.	90.00	Metre		



SI.NO	DSR 2014 Item no.	DESCRIPTION OF WORK	Qty	Unit	Rate (in Rs) in Figures & Words	Amount ( in Rs)
67	LMR	Supply and Installation of 1 X 250 W HPSV IP 55, Industrial high bay wide beam luminaire with aluminum reflector complete with all electrical accessories like ballast , lamp holder, lamp etc (Wipro WHS 25250, Bajaj BJHBI/MBI 250)	40.00	Each		
68	LMR	Supply and Installation of 1 X 70 W HSPV IP 65 diecast aluminium street light fittings with toughened glass and pot optic reflector complete with control gear box, lamps etc complete with all mounting accessories like required size GI Pipe, clamps copper wire etc as required (Philips CRP 320 IXSONT70W TS / GE70SV / NG / Bajaj BGJRL 70 SV CG PDC )	10.00	Each		
		<b>Total of Part - D</b>				

