

# **Bharat Heavy Electricals Limited**

**High Pressure Boiler Plant  
Tiruchirappalli – 620 014. India  
Civil Engineering Department (Township)**

## **TENDER DOCUMENT (PRICE BID)**

<b>Name of work</b>	:	Annual Maintenance contract for Carpentry works, Aluminium works, false ceiling, interior decoration works, etc., for buildings in BHEL Township, Trichy
<b>Tender Schedule No</b>	:	CT: TS: 012 / 20 - 21
<b>Estimate Value of Work</b>	:	Rs. 25,00,000.00+ Applicable GST
<b>Evaluation Value of Work</b>	:	Rs. 12,50,000.00
<b>EMD</b>	:	Rs. 25,000.00 (Rupees Twenty five Thousand only)
<b>Period of Contract</b>	:	15 (Fifteen) Months
<b>Date of Notification</b>	:	22.10.2020
<b>Last Date of Receipt of Tender</b>	:	12.11.2020 @ 10:00 hrs.
<b>Date of Tender Opening</b>	:	12.11.2020 @ 10:00 hrs.

**BHARAT HEAVY ELECTRICALS LIMITED**  
**TIRUCHIRAPALLI - 620 014**

**SCHEDULE - A**

Name of Work Annual Maintenance contract for Carpentry works,

Aluminium works, false ceiling, interior decoration works, etc., for buildings in BHEL Township, Trichy

I / We \_\_\_\_\_ have read the condition of tender attached hereto and agree to abide by such conditions. I/We offer to execute the works in CT: TS: 012 / 20 - 21 for a period of **15 (Fifteen) Months** at the percentage below / at par / above the rates contained in Bill of Quantities appended **below from Page 03**.

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carry out all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirappalli - 620 014. In case of acceptance of the tender by the BHEL, I/We bind myself/ourselves to execute the contract documents within 7 days after notice that my/our tender has been accepted and this contract has been awarded to me/us and thus failing which I/We shall have no objection to the forfeiture of the Earnest Money amount to **Rs. 25,000** lodged with Bharat Heavy Electricals Limited, Tiruchirapalli-620 014.

I / We further agree to include all tools & plants and consumables required for the work in my / our scope but required power and water will be provided at one point by BHEL at free of cost and based on this, we have quoted our percentage.

**Note:** Details & Quantities of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is appended below. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the overall percentage quoted by the contractor **Below (100-X) % / At par (100%) / Above (100+X) %** of the rates provided in Bill of Quantities appended below from **Page 03**.

Sl. No.	Approx. Value of work	<b>Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the BHEL estimate rate provided in Bill of Quantities appended below from Page 03</b>	
		In Figures	In Words
1.	<b>Bill of Quantities shown from Page No 3 onwards (Excluding GST) = 100%</b>		

**Note: BHEL estimate total 100% is given below. Contractor has to quote Common single percentage, Below (100-X) % / At par (100%) / Above (100+X) %, with respect to the estimate total in Bill of Quantities below, at page 2 both in figures and in words.**

**CIVIL ENGINEERING DEPARTMENT - TOWNSHIP  
BHEL / TRICHY-620 014**

**BILL OF QUANTITIES**

**Name of work :** Annual Maintenance contract for Carpentry works,

Aluminium works, false ceiling, interior decoration works, etc., for buildings in BHEL Township, Trichy

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0401A	Providing best wooden frames for doors, windows, ventilators and other frames, wrought framed and fixed in position. All as per standard specifications and drawings. Rate includes cost of wood, holdfasts, other materials, labour etc. complete  In Teak wood	M3	109029.2	0
0401B	Providing best wooden frames for doors, windows, ventilators and other frames, wrought framed and fixed in position. All as per standard specifications and drawings. Rate includes cost of wood, holdfasts, other materials, labour etc. complete  In Country wood	M3	46085.35	0
0402A	Providing best wooden frames for false ceiling, partitions etc. sawn and put up in position. All as per standard specifications and drawings. Rate includes cost of wood, M.S suspenders, screws, nails, other materials involved, labour, etc. complete  In Teak wood	M3	113394.25	0
0402B	Providing best wooden frames for false ceiling, partitions etc. sawn and put up in position. All as per standard specifications and drawings. Rate includes cost of wood, M.S suspenders, screws, nails, other materials involved, labour, etc. complete.  In Country wood	M3	38851.80	0
0403	Labour charges for wrought and put up in position for all kinds of frames including fixing of holdfasts etc. complete. Rate excludes cost of wood and hold-fasts.	M3	9765.45	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0404A	Manufacture, supply and fixing best wooden door with frames and shutters comprising of fully paneled shutter of 35 mm thick and frame of size 95 x 70 mm including cost of holdfasts but excluding cost of furniture fittings & fitting charges.  In Teak wood	M2	4807.75	0
0404B	Manufacture, supply and fixing best wooden door with frames and shutters comprising of fully paneled shutter of 35 mm thick and frame of size 95 x 70 mm including cost of holdfasts but excluding cost of furniture fittings & fitting charges.  In Country wood	M2	2257.90	0
0405A	Manufacture, supply and fixing in position of 35 mm thick fully paneled best wooden door shutters. All as per standard specifications & drawings. (Excluding door frame) Rate excludes furniture fittings.  In Teak wood (single leaved shutter)	M2	3375.90	0
0405B	Manufacture, supply and fixing in position of 35 mm thick fully paneled best wooden door shutters. All as per standard specifications & drawings. (Excluding door frame) Rate excludes furniture fittings.  In Teak wood (double leaved shutter)	M2	3280.95	0
0405C	Manufacture, supply and fixing in position of 35 mm thick fully paneled best wooden door shutters. All as per standard specifications & drawings. (Excluding door frame) Rate excludes furniture fittings.  In Country wood (single leaved shutter)	M2	1583.15	0
0405D	Manufacture, supply and fixing in position of 35 mm thick fully paneled best wooden door shutters. All as per standard specifications & drawings. (Excluding door frame) Rate excludes furniture fittings. In Country wood (double leaved shutter)	M2	1552.20	0
0406A	Supply and fixing in position of 38/40mm thick best quality flush shutters solid core type of approved quality with formaldehyde bonded teak ply (both faces) and with teak wood internal lipping's etc., complete all as per drawings and standard specifications but excluding cost of frame and furniture fittings. (Area of shutter only to be measured) single leaved shutter	M2	3084.80	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0406B	Supply and fixing in position of 38/40mm thick best quality flush shutters solid core type of approved quality with formaldehyde bonded teak ply (both faces) and with teak wood internal lipping's etc., complete all as per drawings and standard specifications but excluding cost of frame and furniture fittings. (Area of shutter only to be measured) Double leaved shutter	M2	3244.10	0
0407	Manufacture, supply and fixing in position of G.I sheet single leaved door with best country wood frame all-round using 75 x 35 mm scantlings, including horizontal member of 75 x 35 mm at 600 mm c/c with 1.20 to 1.25 mm thick GI plain sheet on one side including sizing, fixing, cost of oxidized iron hinges, aluminum tower bolts, aluminum handles etc., all as per standard specifications & drawings.	M2	1294.80	0
0408A	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with 4 mm plain glass panes.	M2	6139.95	0
0408B	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with 4 mm pin headed glass panes.	M2	6102.45	0
0408C	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with 3 mm pin headed glass panes.	M2	6113.55	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0408D	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with 16 mm teak panels.	M2	6670.65	0
0408E	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with partly panelled and partly glazed. (16 mm panels and 4 mm plain glass panes)	M2	6437.80	0
0408F	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. .In Country wood. 35 mm thick shutter with 4 mm plain glass panes.	M2	3034.10	0
0408G	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with 4 mm pin headed glass panes.	M2	2996.60	0
0408H	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with 3 mm pin headed glass panes.	M2	3007.70	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0408I	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with 16 mm country wood panels.	M2	3166.70	0
0408J	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with partly panelled and partly glazed. (16 mm country wood panels and 4 mm plain glass panes)	M2	3104.45	0
0409A	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with 4 mm plain glass panes.	M2	3063.75	0
0409B	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with 4 mm pin headed glass panes.	M2	3012.70	0
0409C	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with 3 mm pin headed glass panes.	M2	3027.80	0
0409D	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with 16 mm teak panels.	M2	3786.50	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0409E	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with partly panelled and partly glazed. (16 mm teak wood panels and 4 mm plain glass panes)	M2	3469.40	0
0409F	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with 4 mm plain glass panes.	M2	1824.45	0
0409G	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with 4 mm pin headed glass panes.	M2	1773.40	0
0409H	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with 3 mm pin headed glass panes.	M2	1788.50	0
0409I	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications & drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with 16 mm country wood panels.	M2	2005.00	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0409J	<p>Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications &amp; drawings. (Excluding window frame) Rate excludes window frame and furniture fittings.</p> <p>In Country wood. 35 mm thick shutter with partly panelled and partly glazed. (16 mm country wood panels and 4 mm plain glass panes)</p>	M2	1920.25	0
0410A	<p>Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. (Excluding bottom frame for fixing over doors and windows.)</p> <p>In Teak wood with 4 mm plain glass panes for shutter.</p>	M2	4900.65	0
0410B	<p>Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. (Excluding bottom frame for fixing over doors and windows.)</p> <p>In Teak wood with 3 mm pin headed glass panes for shutter.</p>	M2	4868.25	0
0410C	<p>Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. (Excluding bottom frame for fixing over doors and windows.)</p> <p>In Country wood with 4 mm plain glass panes for shutter.</p>	M2	2419.10	0
0410D	<p>Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. (Excluding bottom frame for fixing over doors and windows.)</p> <p>In Country wood with 3 mm pin headed glass panes for shutter.</p>	M2	2386.70	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0411A	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings.  In Teak wood with 4 mm plain glass panes for shutter.	M2	5584.50	0
0411B	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings.  In Teak wood with 3 mm pin headed glass panes for shutter.	M2	5556.00	0
0411C	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings.  In Country wood with 4 mm plain glass panes for shutter.	M2	2647.55	0
0411D	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings.  In Country wood with 3 mm pin headed glass panes for shutter.	M2	2619.05	0
0412A	Manufacture, supply and fixing in position of fully glazed fixed type louvered ventilator using best wooden frame of size 75 x 50 mm and using 4 mm thick plain glass panes for louvers, all as per drawings and standard specifications. Rate includes supply and fixing of MS holdfasts.  In Teak wood	M2	4280.55	0
0412B	Manufacture, supply and fixing in position of fully glazed fixed type louvered ventilator using best wooden frame of size 75 x 50 mm and using 4 mm thick plain glass panes for louvers, all as per drawings and standard specifications. Rate includes supply and fixing of MS holdfasts  In Country wood	M2	2064.20	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0413A	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Teak wood with 4 mm plain glass panes for shutter.	M2	2290.15	0
0413B	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Teak wood with 3 mm pin headed glass panes for shutter.	M2	2246.05	0
0413C	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Country wood with 4 mm plain glass panes for shutter.	M2	1442.40	0
0413D	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Country wood with 3 mm pin headed glass panes for shutter.	M2	1398.35	0
0414A	Labour charges for manufacturing the following wood work items either in teak or country wood and fixing in proper position at site of work. All as per standard specifications and drawings. Rate excludes cost of wood, furniture fittings and its fitting charges. Fully panelled door shutter / window shutter (excluding door / window frame)	M2	580.00	0
0414B	Labour charges for manufacturing the following wood work items either in teak or country wood and fixing in proper position at site of work. All as per standard specifications and drawings. Rate excludes cost of wood, furniture fittings and its fitting charges. Partly glazed and partly panelled door shutter / window shutter/ fully glazed window shutter (excluding door / window frame)	M2	535.70	0
0414C	Labour charges for manufacturing the following wood work items either in teak or country wood and fixing in proper position at site of work. All as per standard specifications and drawings. Rate excludes cost of wood, furniture fittings and its fitting charges. Fully glazed shutter/shutter with frame for ventilator	M2	493.35	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0415	Labour charges for fixing doors, windows and ventilators including frames and shutters in position etc. complete.(wood or steel)	M2	118.90	0
0416A	Labour charges for fixing the following in proper position. Shutter only for doors, windows , ventilator etc.	M2	23.80	0
0416B	Labour charges for fixing the following in proper position. Shutter only for doors, windows , ventilator etc.	EACH	171.25	0
0417	Cutting to size and fixing M.S rods/bars in window and ventilator frames and other petty works. (labour only)	K.G	12.30	0
0418	Supply and fixing M.S grills for windows, ventilators and also wherever necessary including a priming coat. All according to our design and specification.	K.G	58.20	0
0419	Supply of MS round or square bars at site of work for windows, ventilators, other petty works etc.	K.G	49.50	0
0420	Manufacture, supply and fixing in position of cupboard shutters with best teakwood frame of size 100 x 35 mm and 25 mm thick best quality pre laminated particle board (exterior grade) as flush shutters etc., complete, all as per standard specifications and drawings. Rate includes holdfasts but excludes furniture fittings.	M2	2214.00	0
0421	Manufacture, supply and fixing in position of fly proof shutters with best teakwood frame of size 75 x 25 mm and 20 mm thick shutters using 50 x 20 mm teakwood styles and rails including supply and fixing of best quality galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm including cost of holdfasts, oxidised iron butt hinges and other fittings of anodised aluminium including providing locking arrangements etc., complete, all as per standard specifications.	M2	2248.65	0
0422	Providing and fixing best teak wood of 12 mm thick and 150 mm wide for pelmet of doors and windows with necessary provision for fixing curtain rod. Rate excludes curtain rod. (Only horizontal length between supports will be measured and paid)	RM	446.10	0
0423	Providing and fixing pre laminated particle board (exterior grade) of approved brand and quality 12 mm thick and 150 mm wide for pelmet of doors and windows with necessary provision for fixing curtain rod. Rate excludes curtain rod.(Only horizontal distance between supports will be measured and paid)	RM	302.35	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0424A	Providing and fixing curtain rods of the following. Rate includes cost of rods, cutting to required lengths, fixing in position etc. complete. MS pipe nickel plated 20 mm dia (HD) with nickel plated brackets.	RM	99.20	0
0424B	Providing and fixing curtain rods of the following. Rate includes cost of rods, cutting to required lengths, fixing in position etc. complete. Anodised aluminium tube of 20 mm dia with suitable brackets.	RM	63.25	0
0425	Providing and fixing best teakwood beading of size 50 x 25 mm on walls including supply and fixing of hooks at required intervals etc., complete.	RM	84.75	0
0426	Supply and fixing mild steel balustrade of overall height 90 cm fabricated with 40 x 5 mm M.S. flats and 15 mm M.S. square bars painted with one coat of red oxide primer, including supply and fixing of best teak wood hand rail of size 75 x 75 mm at top finished smooth. All as per standard specifications & drawings.	RM	1577.15	0
0427A	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. Hydraulic door closer - universal type (Medium duty)	EA	1425.45	0
0427B	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. Hydraulic door closer - universal type ( Heavy duty)	EA	1507.00	0
0427C	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. Brass Mortice lock 100 mm, 6 levers and a pair of brass lever handles	EA	492.40	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0427D	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. D type Anodised Aluminium handle - 75 mm	EA	20.90	0
0427E	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. D type Anodised Aluminium handle - 100 mm	EA	31.90	0
0427F	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. D type Anodised Aluminium handle - 125 mm	EA	35.75	0
0427G	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 250 x 12 mm Anodised Aluminium al drop	EA	140.85	0
0427H	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 250 x 16 mm Anodised Aluminium al drop	EA	170.50	0
0427I	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 300 x 16 mm Anodised Aluminium al drop	EA	206.80	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0427J	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 50 x 11/12 mm Anodized Aluminium tower bolt	EA	32.90	0
0427K	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 75 x 11/12 mm Anodized Aluminium tower bolt	EA	38.50	0
0427L	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 100 x 11/12 mm Anodized Aluminium tower bolt	EA	47.30	0
0427M	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 150 x 11/12 mm Anodized Aluminium tower bolt	EA	64.90	0
0427N	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 200 x 11/12 mm Anodized Aluminium tower bolt	EA	99.00	0
0427O	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 250 x 11/12 mm Anodized Aluminium tower bolt	EA	143.00	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0427P	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 300 x 11/12 mm Anodized Aluminium tower bolt	EA	176.00	0
0427Q	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 50 mm oxidised iron butt hinges (Heavy duty)	EA	10.45	0
0427R	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 125 mm oxidised iron butt hinges (Heavy duty)	EA	22.55	0
0427S	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 150 mm oxidised iron butt hinges (Heavy duty)	EA	43.45	0
0427T	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 125 mm oxidised iron parliamentary hinges (Heavy duty)	EA	42.35	0
0427U	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 150 x100 mm oxidised iron parliamentary hinges (Heavy duty)	EA	45.10	0
0427V	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 50 mm oxidised iron tower bolt (Heavy duty)	EA	20.90	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0427W	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 100 mm oxidised iron tower bolt (Heavy duty)	EA	30.80	0
0427X	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 150 mm oxidised iron tower bolt (Heavy duty)	EA	42.90	0
0427Y	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 250 mm oxidised iron tower bolt (Heavy duty)	EA	60.50	0
0427Z	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 300 mm oxidised iron tower bolt (Heavy duty)	EA	77.00	0
0427A1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 250 x 16 mm oxidised iron AL drop (Heavy duty)	EA	126.50	0
0427B1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 300 x 16 mm oxidised iron AL drop (Heavy duty)	EA	129.80	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0427C1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 200 mm brass iron hook and eye	EA	72.60	0
0427D1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. 250 mm brass iron hook and eye	EA	78.65	0
0427E1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. Anodised aluminium Hanging type door stopper	EA	31.90	0
0427F1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. PTMT handle 125x34x24 mm	EA	38.50	0
0427G1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. PTMT handle 150x34x24 mm	EA	42.90	0
0427H1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. PTMT butt hinges 75x60x10 mm	EA	57.20	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0427I1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. PTMT butt hinges 100x75x10 mm	EA	72.60	0
0427J1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. PTMT Tower bolt 152x42x18 mm	EA	82.50	0
0427K1	Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. PTMT Tower bolt 202x42x18 mm	EA	99.00	0
0428	Providing and fixing cupboard shutter 25 mm thick, melamine faced pre laminated with flat pressed three layer particle board conforming to IS:12823 exterior grade (Grade I Type II) having one side decorative lamination of approved shade and other side balancing lamination including II class teak wood lipping of 25 mm wide & 12 mm thick with necessary screws, nickel plated bright finished M.S piano hinges etc. complete.	M2	1471.35	0
0429	Providing and fixing cupboard shutter 25 mm thick particle board with teak veneering on one side & commercial veneering on the other side conforming to IS:3087 exterior grade (Grade I ) of approved make including II class teak wood lipping of 25 mm wide & 12 mm thick with necessary screws, nickel plated bright finished M.S piano hinges, etc. complete.	M2	1350.35	0
0430	Providing and fixing factory made flush door shutter 30 mm thick made of pre laminated flat pressed three layer particle board conforming to IS:12823 exterior grade (Grade I Type II) having one side decorative lamination of ap-proved shade and other side balancing lamination including II class teak wood lipping of 30 mm wide & 12mm thick with necessary screws, black enamelled M.S butt hinges, etc. complete.	M2	1477.20	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0431A	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. Extruded section profile size 48x40 mm	RM	188.10	0
0431B	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. Extruded section profile size 42x50 mm.	RM	177.10	0
0432	Providing and fixing to existing door frames, 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm 0.2$ mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm 0.2$ mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thick-ness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bath-room door shutter).	M2	2500.60	0
0433	Providing and fixing to existing door frames, 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of uPVC hollow section of size 60x30 mm and wall thickness 2 mm ( $\pm 0.2$ mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm ( $\pm 0.2$ mm) wall thickness fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer -in-charge.	M2	2610.55	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0434	Providing and fixing to existing door frames, 25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25 mm or less as per requirement with an average wall thickness of 1 mm ( $\pm 0.3$ mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. An M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm ( $\pm 0.1$ mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.	M2	2500.55	0
0435	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.	RM	409.25	0
0436A	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mired cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge. Non decorative finish.	M2	2482.30	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0436B	<p>Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles &amp; rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top &amp; bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mired cut and joint with the help of PVC solvent cement &amp; self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm &amp; 15 mm integrally extruded in the middle of the lock rail &amp; fixed with styles with the help of PVC solvent cement &amp; self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.</p> <p>Decorative finish (both side wood grained finish).</p>	M2	3078.50	0
0437	<p>Removing the damaged door shutter from door frame in buildings, conveying the same to site of work, dismantling the damaged bottom rail and other required portions, supply and replacing with suitable bottom rail of best country wood of maximum size 200x35 mm &amp; length 775 mm and covered with sup-ply &amp; fixing of 28 gauge G.I sheet at the bottom on both sides of shutter to a width &amp; height of 775 mm &amp; 900 mm respectively including cutting, sizing, finishing, conveying and refixing the finished door shutter in proper position in buildings, all as per instructions of Engineer in charge. Rate also includes cost of all accessories such as nails, screws, fevicol etc.</p>	EACH	714.95	0
0438A	<p>Removing the existing partition with door carefully from its position without damaging any portion of the partition, handing over the reusable items to the departmental stores / stacking at site. All as per the instructions of Engineer- in-charge.</p> <p>Teakwood partition partly panelled and partly glazed</p>	M2	123.20	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0438B	Removing the existing partition with door carefully from its position without damaging any portion of the partition, handing over the reusable items to the departmental stores / stacking at site. All as per the instructions of Engineer-in-charge.  Teakwood / Aluminium partition panelled or glazed	M2	148.10	0
0439A	Conveying partition along with doors from departmental stores / stacks and fixing the same in position without damaging the frame work and glass. Rate includes cost of additional rubber gaskets, aluminum frame work and beading if required for fixing the glasses for panels rigidly in position, cost of all materials, labour, scaffolding, tools and plants and other incidentals etc. complete. All as per the instructions of Engineer-in-charge. Teakwood partly panelled and partly glazed.	M2	651.45	0
0439B	Conveying partition along with doors from departmental stores / stacks and fixing the same in position without damaging the frame work and glass. Rate includes cost of additional rubber gaskets, aluminum frame work and beading if required for fixing the glasses for panels rigidly in position, cost of all materials, labour, scaffolding, tools and plants and other incidentals etc. complete. All as per the instructions of Engineer-in-charge. Teakwood / Aluminium partition Panelled / Glazed	M2	292.35	0
0827A	Varnishing with varnish of approved brand and manufacture to give an even shade, all as per standard specifications. Three coats (An under coat with flatting varnish and two coats of copal varnish)	M2	93.35	0
0827B	Varnishing with varnish of approved brand and manufacture to give an even shade, all as per standard specifications. Two coats	M2	62.60	0
0827C	Varnishing with varnish of approved brand and manufacture to give an even shade, all as per standard specifications. One coat	M2	40.95	0
0828A	Polishing with French polish including a coat of wood filler to give an even surface, including cleaning the surfaces of all dirt, dust and sand papered smooth, all as per standard specifications. Two coats	M2	180.30	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0828B	Polishing with French polish including a coat of wood filler to give an even surface, including cleaning the surfaces of all dirt, dust and sand papered smooth, all as per standard specifications. One coat	M2	94.25	0
1210A	Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , suspended by hangers of ceiling/ stay angles / GI wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., , labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge. Arm Gyp- FB Ceiling tiles of Armstrong make of size 595mm x 595mm x 9mm thick	M2	1246.05	0
1210B	Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , suspended by hangers of ceiling/ stay angles / GI wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., , labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge. Aruba- FB Ceiling tiles of Armstrong make of size 595mm x 595mm x7.5mm thick	M2	1137.60	0

<b>S R Item</b>	<b>DESCRIPTION</b>	<b>Unit</b>	<b>RATE (Rs)</b>	<b>Cement Consumption kg/ unit</b>
1202	Extra for powder coated aluminum (minimum thickness of powder coating 50 micron) sections instead of anodized aluminum sections.	KG	26.40	0
1203	Extra for polyester powder coated aluminum (minimum thickness of polyester powder coating 50 micron) sections instead of anodized aluminum sections.	KG	33.00	0
1204A	Providing and fixing glazing in aluminum door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per drawing and instructions of Engineer-in- charge. (Cost of aluminum snap beading shall be paid in basic item.) With float glass panes of 4 mm thick	M2	797.60	0
1204B	Providing and fixing glazing in aluminum door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per drawing and instructions of Engineer-in- charge. (Cost of aluminum snap beading shall be paid in basic item.) With float glass panes of 5.50 mm thick	M2	948.40	0
1205	Providing and fixing double action hydraulic floor spring with stainless steel cover plate of approved brand and manufacture conforming to IS : 6315 for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S sheet outer box with side plate etc. complete as per instructions of Engineer-in- charge.	EA	1904.05	0
1206	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee / angle sections of approved make conforming to IS:733 in frames of false ceiling including aluminium angle cleats with necessary C.P brass / stainless steel sunk screws, aluminium perimeter angles fixed to wall with rail plugs at 450 mm c/c and fixing the frame work to level adjusting hangers (6mm dia MS rods) with necessary cadmium plated machine screws, all complete as per drawing and directions of Engineer-in-charge.(Level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately)	KG	451.90	0
1207	Providing and fixing 6 mm dia G.I level adjusting hangers (up to 1200 mm length) fixed to roof slabs by means of ceiling cleats made of G.I flat 40 x 3 mm size, 60 mm long and expansion hold fasteners 12.5 mm dia, 40 mm long etc. Complete.	EA	99.90	0
<b>S R</b>	<b>DESCRIPTION</b>	<b>Unit</b>	<b>RATE</b>	<b>Cement</b>

Item		(Rs)	Consumption kg/ unit
1208	Providing and fixing machine moulded anodised aluminium (anodised transperant or dyed to required shade according to IS 1868, minimum anodic coating of grade AC 15) sheet covering of approved pattern and design made out machine cut aluminium sheet and machine holed for receiving screws, over expansion joints on vertical surfaces / ceilings with full threaded cadmium plated steel screws 4 mm dia, stem 30 mm long and aluminium washers 2 mm thick, 15 mm dia at a staggered pitch of 200 mm c/c including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete.	KG 400.20	0
1209	Providing false ceiling at all height with 12.5 mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections of power pressed from M.S sheet and galvanised in accordance of zinc coating of grade 350 as per IS:277 and consisting of angle cleats of size 25 wide & 1.6 mm thick with flanges of 22 mm and 37 mm at 1200 mm c/c one flange fixed to the ceiling with dash fastener 12.5 mm dia, 40 mm long with 6 mm dia bolts to the angle hangers of 25 x 25 x 0.55 mm of required length and other end of angle hanger being fixed with nut and bolts to G.I channels 45 x 15 x 0.9 mm running at the rate of 1200 mm c/c to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having clips of 10.5 mm at 450 mm c/c shall be fixed in a direction perpendicular to G.I channel with connecting clips made of 2.64 mm dia, 230 mm long G.I wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall / partition with the help of rail plugs at 450 mm c/c with 25 mm long drive all screws @ 230 mm interval including joining and fixing to a flush finish of tapered and square edges of gypsum board with recommended filler, paper tapes, finisher and two coats of primer suitable for gypsum board as per manufacturers' specification and also including the cost of making openings for light fittings, grills, diffusers, cut-outs made with frame of perimeter channels suitably fixed all complete as per drawing, specification and direction of Engineer-in-charge, but excluding the cost of painting.	M2 740.65	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1210A	<p>Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , sus-pended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., , labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge.</p> <p>Arm Gyp- FB Ceiling tiles of Armstrong make of size 595mm x 595mm x 9mm thick</p>	M2	1246.05	0
1210B	<p>Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , sus-pended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., , labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge.</p> <p>Aruba- FB Ceiling tiles of Armstrong make of size 595mm x 595mm x7.5mm thick</p>	M2	1137.60	0
1211A	<p>Providing 10 mm thick plaster of Paris (Gypsum anhydrous) ceiling up to a height of 5 metre above floor level over first class kale wood strips 25 x 6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden. (Frame work will be paid separately)</p> <p>Flat surfaces</p>	M2	715.50	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1211B	Providing 10 mm thick plaster of Paris (Gypsum anhydrous) ceiling up to a height of 5 metre above floor level over first class mail wood strips 25 x 6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden. (Frame work will be paid separately) Curved surfaces	M2	826.10	0
1212	Extra for any sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.	M2	207.60	0
1213	Extra for providing plaster of Paris (Gypsum anhydrous) ceiling for every 1 m height above 5 metre height from floor level. (Height beyond 5 metre to be measured for extra payment)	M2	84.05	0
1214	Providing and fixing 100 mm brass lock (mortise latch & lock with six levers) for aluminium doors including necessary cutting and making good etc. Complete.	EA	371.40	0
1215	Providing and fixing anodised (AC 15) aluminium round shape handle of outer dia 100 mm with SS screws etc. Complete, all as per instructions of Engineer in charge	EA	58.60	0
1216	Providing and fixing powder coated (50 micron) aluminium round shape handle of outer dia 100 mm with SS screws etc. Complete, all as per instructions of Engineer in charge.	EA	64.10	0
1217	Providing and fixing polyester powder coated (50 micron) aluminium round shape handle of outer dia 100 mm with SS screws etc. Complete, all as per instructions of Engineer in charge.	EA	69.60	0
1218	Servicing / overhauling, oiling, cleaning of aluminium door / window shutter of any size for smooth operation as per instructions of Engineer-in-charge. Rate includes cost of tool and labour (Excluding cost of spares which will be paid separately) and other incidental charges etc. complete.	M2	179.50	0
1219A	Providing Powder coated aluminium alloy grills of following and fixing in proper position windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand & quality screws as per manufacturers recommendation etc. Complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-4" open -7.5 mm thk (245-255g/sqft)	M2	1922.40	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1219B	Providing Powder coated aluminium alloy grills of following and fixing in proper position windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand & quality screws as per manufacturers recommendation etc. Complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-4" open -6.3 mm thk 175-185g/sqft	M2	1637.75	0
1219C	Providing Powder coated aluminium alloy grills of following and fixing in proper position windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand & quality screws as per manufacturers recommendation etc. Complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-4" open -5.5 mm thk 125-135g/sqft	M2	1495.40	0
1219D	Providing Powder coated aluminium alloy grills of following and fixing in proper position windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand & quality screws as per manufacturers recommendation etc. Complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-3" open -7.5 mm thk 315-325g/sqft	M2	2207.15	0
1219E	Providing Powder coated aluminium alloy grills of following and fixing in proper position windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand & quality screws as per manufacturers recommendation etc. Complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-3" open -6.3 mm thk 230-240g/sqft	M2	1993.60	0
1219F	Providing Powder coated aluminium alloy grills of following and fixing in proper position windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand & quality screws as per manufacturers recommendation etc. Complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-3" open -5.5 mm thk 160-170g/sqft	M2	1708.90	0
1219G	Providing Powder coated aluminium alloy grills of following and fixing in proper position windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand & quality screws as per manufacturers recommendation etc. Complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-2" open -7.5 mm thk 410-420 g/sqft	M2	2420.70	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1219H	<p>Providing Powder coated aluminium alloy grills of following and fixing in proper position windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand &amp; quality screws as per manufacturers recommendation etc. Complete, all as per the instructions of Engineer-in-charge.</p> <p>Aluminium Grill 12x4-2" open -5.5 mm thk 200-210g/sqft</p>	M2	2207.15	0
1220	<p>Manufacturing, supplying and fixing in position of partitions for an approxi-mate height of 3.20 m as detailed below:</p> <p>The bottom 90 cm and top 110 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced pre laminated (both side) particle board of approved shade with Powder coated aluminium frame work.</p> <p>The middle 120 cm height of partition shall be of glazed using 5 mm thick plain glass and powder coated aluminum frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using 8 mm anchor fasteners including cutting and making good the walls and floors etc., complete</p> <p>FRAME WORK: The frame work shall be with Powder coated aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 <math>\frac{3}{4}</math>" x 1 <math>\frac{3}{4}</math>" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 <math>\frac{1}{2}</math>" x 1 <math>\frac{1}{2}</math>" and 1.28 mm thick (weight 0.754 kg/m). The verticals shall be generally spaced at 0.90 m centres and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Generally all the vertical sections shall be taken up to ceiling height and fixing the same with RC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	M2	2365.85	0
1221	<p>Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below:</p> <p>The bottom ,middle and top of the partition (full portion) shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced pre laminated (both side) particle board of approved shade with Powder coated aluminium frame work.</p> <p>FRAME WORK: The frame work shall be with Powder coated aluminum sections with suitable aluminum beadings and rubber gaskets. The bottom member shall be of size 3 <math>\frac{3}{4}</math>" x 1 <math>\frac{3}{4}</math>" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 <math>\frac{1}{2}</math>" x 1 <math>\frac{1}{2}</math>" and 1.28 mm thick (weight 0.754 kg/m). The verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc., without affecting the general elevation. Generally all the vertical sections shall be taken up to ceiling height and fixing the same with RC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other incidentals etc., complete.</p>	M2	2385.00	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1222	<p>Manufacturing, supplying and fixing in position of Aluminium partitions for an approximate height of 1.50m as detailed below:</p> <p>The bottom 90 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced pre laminated (both side) particle board of approved shade with Powder coated aluminum frame work. The top 0.60 m height of partition shall be of glazed using 5 mm thick frosted glass and anodized aluminum frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using metal fasteners including cutting and making good the walls and floors etc. complete.</p> <p>The frame work shall be with Powder aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 3/4" x 1 3/4" and 1.70 mm thick (1.312 kg/m) approximate. The middle, top and vertical members shall be of size 2 1/2" x 1 1/2" and 1.28 mm thick (0.754 kg/m) approximate and the verticals shall be generally spaced at 0.90 m centres and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	M2	3313.55	0
1223	<p>Manufacturing, supplying and fixing in position of Powder coated aluminium single leaved/double leaved glazed door of overall size 1.00 x 2.10m with suitable frame work as per the following specification and instructions of Engineer- in- charge.</p> <p>The all-round vertical and horizontal outer frame shall be with 4" x 1 3/4" x 1.60 mm (unit wt. 1.312 kg/m) sections and for door shutter the bottom member shall be with 3 3/4" x 1 3/4" x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1 3/4" x 1 3/4" x 1.52 mm thick (unit wt. 0.885 kg/m) and shutter divider shall be 2 nos of of 1 3/4" x 1 3/4" x 1.70 mm thick (unit wt. 0.885 kg/m) with necessary beadings and rubber gaskets as per standard specifications. The upper panel of 120 cm shall be with 5 mm thick plain glass and lower panel of 90cm shall be with 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced pre laminated (both side) particle board . Door shall be provided with 2 Nos. of 300 mm long anodized aluminum handle, One No. of ISI marked heavy duty door closer of approved brand, One No. 200 mm long anodized aluminum tower bolt, suitable lock (4 lever), required top and bottom pivots, all as per specification of Engineer in charge. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	M2	3507.75	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1224	Supplying and fixing in position of aluminium ventilator using Powder coated aluminium section of size $2\frac{1}{2}'' \times 1\frac{1}{2}''$ and 1.28 mm thick (0.754 kg/m) for frames confirming to IS: 1948 of latest edition. The fixed and louvered glass panels shall be 5mm thick frosted glass panes. The ventilator should have required No. of louvers fitted properly in aluminium frame work having arrangement to close / open. The rate quoted shall include cost of all materials, labour, fixing charges, locking arrangements etc. all as per standard specifications, drawing and code of practice and instruction of Engineer-in-charge.	M2	4017.65	0
1225	Providing and fixing powder coated aluminium two track sliding windows of approved colours aluminium sections of size $60 \times 28 \times 1.20$ mm ( wt 0.656 kg /m ) for outer frame , $38 \times 17 \times 1.20$ mm (0.41 kg / m) for shutter box and $38 \times 17 \times 1.20$ mm (0.44 kg/m) for inter lock 4 mm thick plain glass for panes, PVC wheels, U rubber, screws, locking arrangements etc. complete, all as per instructions of Engineer-in-charge.	M2	2968.60	0
1226	Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below: The bottom 90 cm and top 110 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced pre laminated (both side) particle board of approved shade with anodised (25 micron) aluminium frame work. The middle 120 cm height of partition shall be of glazed using 5 mm thick plain glass and anodized aluminium frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using 8 mm anchor fasteners including cutting and making good the walls and floors etc., complete. FRAME WORK: The frame work shall be with anodised (25 micron) aluminium sections with suitable aluminium beadings and rubber gaskets. The bot-tom member shall be of size $3\frac{3}{4}'' \times 1\frac{3}{4}''$ and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size $2\frac{1}{2}'' \times 1\frac{1}{2}''$ and 1.28 mm thick (weight 0.754 kg/m). The verticals shall be generally spaced at 0.90 m centres and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Generally all the vertical sections shall be taken up to ceiling height and fixing the same with RC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other	M2	2214.40	0

	inciden-tals etc., complete.			
S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1227	<p>Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below:</p> <p>The bottom ,middle and top of the partition (full portion) shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced pre laminated (both side) particle board of approved shade with anodized (25 micron) aluminum frame work.</p> <p><b>FRAME WORK:</b> The frame work shall be with anodised (25 micron) aluminium sections with suitable aluminium beadings and rubber gaskets. The bot-tom member shall be of size <math>3 \frac{3}{4}'' \times 1 \frac{3}{4}''</math> and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size <math>2 \frac{1}{2}'' \times 1 \frac{1}{2}''</math> and 1.28 mm thick (weight 0.754 kg/m). The verticals shall be generally spaced at 0.90 m centres and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Generally all the vertical sections shall be taken up to ceiling height and fixing the same with RCC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other incidentals etc., complete.</p>	M2	2232.60	0
1228	<p>Manufacturing, supplying and fixing in position of Aluminium partitions for an approximate height of 1.50m as detailed below:</p> <p>The bottom 90 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced pre laminated (both side) particle board of approved shade with anodized (25 micron) aluminum frame work. The top 0.60 m height of partition shall be of glazed using 5 mm thick frosted glass and anodized aluminum frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using metal fasteners including cutting and making good the walls and floors etc. complete.</p> <p>The frame work shall be with anodized aluminum sections with suitable aluminum beadings and rubber gaskets. The bottom member shall be of size <math>3 \frac{3}{4}'' \times 1 \frac{3}{4}''</math> and 1.70 mm thick (1.312 kg/m) approximate. The middle, top and vertical members shall be of size <math>2 \frac{1}{2}'' \times 1 \frac{1}{2}''</math> and 1.28 mm thick (0.754 kg/m) approximate and the verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Rate includes cost of all materials, labour and</p>	M2	2965.35	0

	other inci-dentals etc., complete			
S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1229	Manufacturing, supplying and fixing in position of anodised (25 micron) aluminium single leaved/double leaved glazed door of overall size 1.00 x 2.10m with suitable frame work as per the following specification and instructions of Engineer- in- charge. The all-round vertical and horizontal outer frame shall be with 4" x 1 <sup>3</sup> / <sub>4</sub> " x 1.60 mm (unit wt. 1.312 kg/m) sections and for door shutter the bottom member shall be with 3 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.52 mm thick (unit wt. 0.885 kg/m) and shutter divider shall be 2 nos of of 1 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.70 mm (unit wt. 0.885 kg/m) with necessary beadings and rubber gaskets as per standard specifications. The upper panel of 120 cm shall be with 5 mm thick plain glass and lower panel of 90cm shall be with 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced pre laminated (both side) particle board . Door shall be provided with 2 Nos. of 300 mm long anodized aluminum handle, One No. of ISI marked heavy duty door closer of approved brand, One No. 200 mm long anodized aluminum tower bolt, suitable lock (4 lever), required top and bottom pivots, all as per specification of Engineer in charge. Rate includes cost of all materials, labour and other incidentals etc., complete	M2	3165.55	0
1230	Supplying and fixing in position of aluminium ventilator using anodised (25 micron) aluminium section of size 2 1/2" x 1 1/2" and 1.28 mm thick (0.754 kg/m) for frames confirming to IS: 1948 of latest edition. The fixed and louvered glass panels shall be 5mm thick frosted glass panes. The ventilator should have required No. of louvers fitted properly in aluminium frame work having arrangement to close / open. The rate quoted shall include cost of all materials, labour, fixing charges, locking arrangements etc. all as per standard specifications, drawing and code of practice and instruction of Engineer-in-charge.	M2	3854.20	0
1231	Providing and fixing anodised (25 micron) aluminium two track sliding windows of approved colours aluminium sections of size 60 x 28 x1.20 mm ( wt 0.656 kg / m ) for outer frame , 38 x 17 x 1.20 mm (0.41 kg / m) for shutter box and 38 x 17 x 1.20 mm (0.44 kg/m) for inter lock 4 mm thick plain glass for panes, PVC wheels, U rubber, screws, locking arrangements etc. complete, all as per instructions of Engineer-in-charge.	M2	2669.75	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1232A	<p>Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , sus-pended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge.</p> <p>7.5 MM NANO TILES 600mm X 600mm</p>	M2	949.00	0
1232B	<p>Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , sus-pended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge.</p> <p>4MM EVEREST TILES OSANIC 600mm X 600mm</p>	M2	1037.75	0
1233A	<p>Providing and fixing in position of boards/sheets/tiles of approved quality for false ceiling. Rate includes cost of all materials, conveyance, cutting to required sizes to suit the false ceiling frame work grids, wastages, supply &amp; fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately)</p> <p>12 mm flat pressed 3 layer medium density particle boards - Grade - I</p>	M2	621.20	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1233B	Providing and fixing in position of boards/sheets/tiles of approved quality for false ceiling. Rate includes cost of all materials, conveyance, cutting to required sizes to suit the false ceiling frame work grids, wastages, supply & fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 12 mm thick plain/semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed conforming to IS 3087.	M2	632.25	0
1233C	Providing and fixing in position of boards/sheets/tiles of approved quality for false ceiling. Rate includes cost of all materials, conveyance, cutting to required sizes to suit the false ceiling frame work grids, wastages, supply & fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 3 mm thick translucent white acrylic plastic sheets.	M2	878.30	0
1233D	Providing and fixing in position of boards/sheets/tiles of approved quality for false ceiling. Rate includes cost of all materials, conveyance, cutting to required sizes to suit the false ceiling frame work grids, wastages, supply & fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 20 mm thick thermacole boards. (22 K.G/CUM)	M2	268.35	0
1234A1	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. MDF Boards or equivalent of 6 mm thick (Regular grade)	M2	303.65	0
1234A2	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. MDF Boards or equivalent of 18 mm thick (Regular grade)	M2	680.85	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1234A3	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Commercial plywood 6 mm thick - M.R Grade - (Anchor/Swati or equivalent)	M2	595.60	0
1234A4	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Commercial plywood 12 mm thick - M.R Grade- (Anchor/Swati or equivalent)	M2	824.65	0
1234A5	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Commercial plywood 6 mm thick-Synthetic resin bonded - (Anchor/Swati or equivalent)	M2	595.60	0
1234A6	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Commercial plywood 12 mm thick-Synthetic resin bonded- (Anchor/Swati or equivalent)	M2	1222.35	0
1234A7	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Cement bonded particle boards - 6 mm thick (Bison panel)	M2	339.95	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1234A8	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Cement bonded particle boards - 10 mm thick (Bison panel)	M2	489.10	0
1234A9	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Cement bonded particle boards - 12 mm thick (Bison panel)	M2	588.50	0
1234A10	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Cement bonded particle boards - 16 mm thick (Bison panel)	M2	685.00	0
1234A11	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards - 6 mm thick (Bison panel)	M2	675.50	0
1234A12	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards - 8 mm thick (Bison panel)	M2	725.20	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1234A13	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards - 10 mm thick (Bison panel)	M2	774.95	0
1234A14	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards - 12 mm thick (Bison panel)	M2	843.30	0
1234A15	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards - 16 mm thick (Bison panel)	M2	935.60	0
1234A16	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 9 mm thick-Regular Grade-(Nova pan-Prime or equivalent)	M2	366.05	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1234A17	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 12mm thick-Regular Grade-(Nova pan-Prime or equivalent)	M2	438.15	0
1234A18	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 18mm thick-Regular Grade-(Nova pan-Prime or equivalent)	M2	567.75	0
1234A19	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 25mm thick-Regular Grade-(Nova pan-Prime or equivalent)	M2	760.60	0
1234A20	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 35mm thick-Regular Grade-(Nova pan-Prime or equivalent)	M2	1136.25	0
1234A21	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 9 mm thick-Exterior Grade-(Nova pan-Prime or equivalent)	M2	419.50	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1234A22	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 12mm thick-Exterior Grade-(Nova pan-Prime or equivalent)	M2	509.60	0
1234A23	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 18mm thick-Exterior Grade-(Nova pan-Prime or equivalent)	M2	665.90	0
1234A24	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 25mm thick-Exterior Grade-(Nova pan-Prime or equivalent)	M2	897.30	0
1234A25	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Plain particle boards- 35mm thick-Exterior Grade-(Nova pan-Prime or equivalent)	M2	1353.75	0
1234A26	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Pre laminated (one side) particle boards - 9 mm thick - (Emotive or equivalent)	M2	532.60	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1234A27	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Pre laminated (both sides) particle boards - 9 mm thick - (Emotive or equivalent)	M2	538.85	0
1234A28	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Pre laminated (one side) particle boards - 12 mm thick - (Emotive or equivalent)	M2	614.60	0
1234A29	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Pre laminated (both sides) particle boards - 12 mm thick - (Emotive or equivalent)	M2	621.50	0
1234A30	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Pre laminated (one side) particle boards - 18 mm thick - (Emotive or equivalent)	M2	718.15	0
1234A31	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Pre laminated (both sides) particle boards - 18 mm thick - (Emotive or equivalent)	M2	724.70	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1234A32	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Pre laminated (one side) particle boards - 25 mm thick - (Emotive or equivalent)	M2	902.30	0
1234A33	Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. Complete. Rate excludes cost of respective frame works. Pre laminated (both sides) particle boards - 25 mm thick - (Emotive or equivalent)	M2	909.05	0
1235	Supplying and fixing of vertical Venetian blinds 100mm wide with dual colour of approved make (Hunter Douglas make or equivalent) and shade and / as decided by BHEL - for windows / ventilators. Rate inclusive of cost of all materials, labour for fixing and incidentals etc., complete	M2	1191.95	0
1001A3	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 meters. All as per instructions of Engineer-in-charge. Old plastering / skirting raking out joints / chipping the concrete and roughening the surface.	M2	14.15	0
1001A12	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 meters. All as per instructions of Engineer-in-charge. Doors / Windows / Ventilators (steel or wood) including frame and shutters, holdfasts, hinges, fastenings etc. of area 3 sqm & below.	EA	110.15	0

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1001A13	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 meters. All as per instructions of Engineer-in-charge. Only shutters of Doors / Windows / Only shutters of Doors / Windows / hinges, fastenings etc.	M2	20.00	0
0822	Applying one coat of distemper primer of approved brand and manufacture on wall surfaces.	M2	30.35	0
0823B	Distempering using oil bound washable distemper of approved brand and shade on surfaces including cleaning, brushing, preparing the surfaces even and sand papered smooth in accordance with standard specifications.  Three coats (A priming coat with approved primer and two coats of distempering).	M2	40.20	0
0825B	Painting with synthetic enamel paint of approved brand and shade on surfaces to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications.  Three coats (A priming coat with approved primer and two coats of synthetic enamel paint).	M2	67.55	0
0534B	Supply and fixing of glass panes with putty, glazing clips etc. for steel doors, windows, ventilators etc. Rate includes removal of broken glasses and old putty.  3 mm pin headed glass panes.	M2	665.80	0
0801C	Plastering with cement mortar as per standard specifications.  In Cement mortar 1:5, 12mm thick Cement Consumption - 4.46 K.G/SQM	M2	92.95	4.46

S R Item	DESCRIPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0625A	Supply and fixing homogeneous PVC sheets / tiles of approved brand, pattern, colour, shade & manufacture in flooring / skirting on a smooth and damp proof base using rubber based adhesives of approved quality including rolling with light wooden roller weighing about 5 K.G. etc. Complete, all as per standard specifications. 1.5 / 1.6 mm thick	M2	422.05	0
1001A27	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 meters. All as per instructions of Engineer-in-charge. False ceiling / partitions / fixed glazing, all in A.C sheet or hard board or aluminum or gypsum or other materials including connected frame works .	M2	17.50	0

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