

Bharat Heavy Electricals Limited
High Pressure Boiler Plant
Tiruchirappalli – 620 014. India
Civil Engineering Department (Township)

TENDER DOCUMENT (PRICE BID)

Name of Work	Tender Notice No	Tender Schedule No	Estimate /Tender Value	EMD
PAINTING AND DISTEMPETING WORKS AT BHEL TOWNSHIP-TRICHY- (PACKAGE-E)	CT:TN:003/ 18-19	CT:TS:007 /18-19	₹ 80,00,000.00 (RUPEES EIGHTY LAKH ONLY)	Rs. 96,000.00 (RUPEES NINETY SIX THOUSAND ONLY)
MAINTENANCE OF CARPENTRY WORKS AT BHEL TOWNSHIP-TRICHY - (PACKAGE-F)	CT:TN:003/ 18-19	CT:TS:008 /18-19	₹ 64,00,000.00 (RUPEES SIXTY FOUR LAKH ONLY)	Rs. 76800.00 (RUPEES SEVENTY SIX THOUSAND EIGHT HUNDRED ONLY)
MAINTENANCE OF FENCING WORKS AT BHEL TOWNSHIP-TRICHY - (PACKAGE-G)	CT:TN:003/ 18-19	CT:TS:009 /18-19	₹ 16,00,000.00 (RUPEES SIXTEEN LAKH ONLY)	Rs.32000.00 (RUPEES THIRTY TWO THOUSAND ONLY)
INTERIOR DECORATION WORKS AT BHEL TOWNSHIP, TRICHY - (PACKAGE-H)	CT:TN:003/ 18-19	CT:TS:010 /18-19	₹ 16,00,000.00 (RUPEES SIXTEEN LAKH ONLY)	Rs.32000.00 (RUPEES THIRTY TWO THOUSAND ONLY)
FUNCTION ARRANGEMENT WORKS AT BHEL TOWNSHIP, TRICHY- (PACKAGE-I)	CT:TN:003/ 18-19	CT:TS:011 /18-19	₹ 12,00,000.00 (RUPEES TWELVE LAKH ONLY)	Rs. 24,000.00 (RUPEES TWENTY FOUR THOUSAND ONLY)

IMPORTANT NOTE:

As per the Corporate Operation Management guidelines **EMD & Tender cost Exemption will not be allowed to MSME / NSIC vendors** for works contract. This tender is categorized as a works contract. Hence Tenderers are compulsorily need to remit the required EMD/EMDs & Tender cost in order to participate in the Tender. Tender without corresponding EMD /EMDs & Tender cost will be summarily rejected and will not be considered for any reasons. Split and award in the ratio of 60% : 40% respectively to L1 and L2 at the L1 quoted percentage is applicable to the packages E&F Packages for those Estimate / Tender Value is more than Rs.25 Lakhs.

Price Bid for Package E-Page 2 to 11 of this document
Price Bid for Package F-Page 12 to 31 of this document
Price Bid for Package G-Page 32 to 34 of this document
Price Bid for Package H-Page 35 to 55 of this document
Price Bid for Package I-Page 56 to 60 of this document
Tenderers are required to submit the separate packages in separate covers for which they want to participate.

PART-II (PRICE BID) (PACKAGE-E)

SCHEDULE - A1

Name of Work: **PAINTING AND DISTEMPETING WORKS AT BHEL TOWNSHIP-TRICHY-14.CT:TS:07/18-19 Tender Value:Rs.80 Lakhs**

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 **T.S No. CT:TS:007/18-19 for a period of 12 months** at the percentage below / at par / above the rates contained in BHEL applicable items of Schedule of Rates 2013-14 quoted in the schedule appended below:

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-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.96,000/-** 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 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 to 11**. **Eventhough the applicable items are provided, for the operational convenience the total tender value of RS.80 Lakh will be divided as required number of Sub Work orders with required items and value.**

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the rates provided in Bill of Quantities appended below from Page 03 to 11 (The percentage is to be quoted here is GST excluded) (Applicable GST will be extra)	
		In Figures	In Words
1.	Rs.80 Lakh		

Examples:

- 1. If the vendor needs to quote 5% below the schedule of rates then vendor need to write 95% in figure column and Ninety Five percent in words.**
- 2. If the vendor needs to quote at par the the schedule of rates then vendor need to write 100% in figure column and One Hundred percent in words.**
- 3.If the vendor needs to quote 5% above the schedule of rates then vendor need to write 105% in figure column and One Hundred Five percent in words**

Note: Applicable BHEL SR(13-14) item details are given below. Contractor has to quote Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % with respect to the rates provided in Bill of Quantities below at page 02 both in figures and in words

BILL OF QUANTITIES

PACKAGE-E (51 items) CT:TS:007/18-19

PAINTING AND DISTEMPETING WORKS AT BHEL TOWNSHIP-TRICHY-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
1	0815A	White washing on surfaces using best shell lime to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour etc., complete. Three or more coats	M2	10.55	
2	0815B	White washing on surfaces using best shell lime to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour etc., complete. Two coats	M2	5.95	
3	0815C	White washing on surfaces using best shell lime to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour etc., complete. One coat	M2	4.25	
4	0816A	White washing on surfaces using Janathacem or equivalent material to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, curing etc., complete. Three coats	M2	11.55	
5	0816B	White washing on surfaces using Janathacem or equivalent material to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, curing etc., complete. Two coats	M2	7.00	

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
6	0816C	White washing on surfaces using Janathacem or equivalent material to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, curing etc., complete. One coat	M2	4.25	
7	0817A	Colour washing such as green, blue or buff on surfaces to give an even shade including cleaning, brushing walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, etc., complete. Two or more coats with a base coat of white washing with lime	M2	13.70	
8	0817B	Colour washing such as green, blue or buff on surfaces to give an even shade including cleaning, brushing walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, etc., complete. Two coats	M2	7.80	
9	0817C	Colour washing such as green, blue or buff on surfaces to give an even shade including cleaning, brushing walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, etc., complete. One coat	M2	4.55	
10	0818	Removing white or colour wash by scraping, sand papering and preparing the surfaces smooth including necessary repairs to scratches etc. complete.	M2	5.50	
11	0819	Applying one coat of cement primer of approved brand and manufacturer on wall surfaces.	M2	29.25	
12	0820A	Painting walls with water proofing cement paint of approved brand and shade on surfaces to give an even shade including cleaning, preparing the surfaces, curing etc., complete. Three coats (A priming coat of cement primer and two coats of water proofing cement paint)	M2	76.75	

CONTRACTOR SEAL & SIGNATURE

Page 4 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
13	0820B	Painting walls with water proofing cement paint of approved brand and shade on surfaces to give an even shade including cleaning, preparing the surfaces, curing etc., complete. Two coats	M2	47.50	
14	0820C	Painting walls with water proofing cement paint of approved brand and shade on surfaces to give an even shade including cleaning, preparing the surfaces, curing etc., complete. One coat	M2	30.00	
15	0821A	Painting with sandtex matt 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 of approved cement primer and two coats of sandtex matt)	M2	109.50	
16	821B	Painting with sandtex matt 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. Two coats	M2	79.10	
17	0821C	Painting with sandtex matt 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. One coat	M2	46.45	
18	0822	Applying one coat of distemper primer of approved brand and manufacture on wall surfaces.	M2	30.35	
19	0823A	Distemping 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 distemping).	M2	70.55	

CONTRACTOR SEAL & SIGNATURE

Page 5 of 60

ACCEPTING OFFICER

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
20	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. Two coats	M2	40.20	
21	0823C	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. One coat	M2	27.35	
22	0824A	Painting with ready mixed plastic emulsion paint of approved brand and shade on surfaces to give an even shade including thorough scraping, removal of dirt, applying necessary plaster of paris, putty etc.complete, all as per standard specifications. Three coats (A priming coat with approved primer and two coats of plastic emulsion paint).	M2	85.90	
23	0824B	Painting with ready mixed plastic emulsion paint of approved brand and shade on surfaces to give an even shade including thorough scraping, removal of dirt, applying necessary plaster of paris, putty etc.complete, all as per standard specifications. Two coats	M2	55.55	
24	0824C	Painting with ready mixed plastic emulsion paint of approved brand and shade on surfaces to give an even shade including thorough scraping, removal of dirt, applying necessary plaster of paris, putty etc.complete, all as per standard specifications. One coat	M2	37.55	
25	0825A	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	97.90	

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
26	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. Two coats	M2	67.55	
27	0825C	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. One coat	M2	43.55	
28	0826	Removing dry or oil bound distemper / water proofing cement paint / paint by scraping, sand papering and preparing the surfaces smooth including necessary repairs to scratches etc., complete.	M2	7.25	
29	0830A	Painting with black anti corrosive bitumastic paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. Two coats.	M2	45.55	
30	0830B	Painting with black anti corrosive bitumastic paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. One coat	M2	30.60	
31	0831A	Painting with black board paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. Two coats.	M2	59.85	
32	0831B	Painting with black board paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. One coat	M2	38.75	
33	0832A	Lettering with paint of approved brand, shade and manufacture of 1cm height. In synthetic enamel paint	EA	1.90	
34	0832B	Lettering with paint of approved brand, shade and manufacture of 1cm height. In black japan paint.	EA	1.85	

CONTRACTOR SEAL & SIGNATURE

Page 7 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
35	0837	Providing black board in walls in cement mortar 1:2 mixed with black oxide over rough plastered surfaces in cement mortar 1:4, 12 mm thick and providing 25 mm border alround in cement mortar 1:3, neatly rounded etc. complete.	M2	206.35	13.2
36	0838	Repairs to plaster of thickness 12 to 20 mm in patches of area 2.5 Sqm and under with cement mortar 1:4 including cutting the patches in proper shape, preparing and plastering the surface of the walls completely including disposal of rubbish within a lead of 50 metre.	M2	145.35	6.95
37	0839	Removal of all nails, screws, wooden plugs etc. from the walls, chipping the plastering of small holes caused by removal, cleaning and finishing good the same with cement mortar etc. complete in Quarters.	EA	107.30	
38	0840A	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete. Three coats (One coat of Primer of approved brand with two coats of Paint)	M2	74.80	
39	0840B	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete. Two coats	M2	62.05	
40	0840C	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete. One coat	M2	39.85	

CONTRACTOR SEAL & SIGNATURE

Page 8 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
41	0841A	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on STUCCO/EXPOSED AGGREGATE surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete. This is applicable only for STUCCO/EXPOSED AGGREGATE surfaces. Three coats (One coat of Primer of approved brand with two coats of Paint)	M2	94.50	
42	0841B	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on STUCCO/EXPOSED AGGREGATE surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete. This is applicable only for STUCCO/EXPOSED AGGREGATE surfaces. Two coats	M2	75.35	
43	0841C	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on STUCCO/EXPOSED AGGREGATE surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete. This is applicable only for STUCCO/EXPOSED AGGREGATE surfaces. One coat	M2	48.70	
44	0842B	Painting with Epoxy paint (two or more coats) at all locations, prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surfaces etc.complete. On concrete work	M2	97.50	
45	0843	Extra charges for plastering to exterior walls of height more than 13.50 metre from plinth level for every additional height of 3 metre or part thereof.	M2	30.90	
46	0844	Extra charges for plastering to spherical ceiling.	M2	56.70	

CONTRACTOR SEAL & SIGNATURE

Page 9 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
47	0845A	Labour charges for painting with primer/plastic emulsion paint/synthetic enamel paint/aluminium paint/anti corrosive bitumastic paint/black board paint/chlorinated rubber paint or any other paint on required surfaces to give an even shade including scraping, cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Rate excludes cost of primer and paint. Required primer and paint will be issued by BHEL at stores at free of cost. For one priming coat with primer	M2	22.30	
48	0845B	Labour charges for painting with primer/plastic emulsion paint/synthetic enamel paint/aluminium paint/anti corrosive bitumastic paint/black board paint/chlorinated rubber paint or any other paint on required surfaces to give an even shade including scraping, cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Rate excludes cost of primer and paint. Required primer and paint will be issued by BHEL at stores at free of cost. For three coats (A priming coat and two coats of painting or directly three coats of painting)	M2	59.45	
49	0845C	Labour charges for painting with primer/plastic emulsion paint/synthetic enamel paint/aluminium paint/anti corrosive bitumastic paint/black board paint/chlorinated rubber paint or any other paint on required surfaces to give an even shade including scraping, cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Rate excludes cost of primer and paint. Required primer and paint will be issued by BHEL at stores at free of cost. For Two coats of painting	M2	37.10	

CONTRACTOR SEAL & SIGNATURE

Page 10 of 60

ACCEPTING OFFICER

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
50	0845D	Labour charges for painting with primer/plastic emulsion paint/synthetic enamel paint/aluminium paint/anti corrosive bitumastic paint/black board paint/chlorinated rubber paint or any other paint on required surfaces to give an even shade including scraping, cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Rate excludes cost of primer and paint. Required primer and paint will be issued by BHEL at stores at free of cost. For one coat of painting	M2	26.20	
51	0846	Applying two coats of Alltek Superfine (interior plaster) putty to a thickness of 2mm over plastered surface including sand papering and preparing the surface smooth and there after applying one priming coat of Alltek primer and two coats of plastic emulsion paint of approved brand and shade, all as per instructions of Engineer-in-charge.	M2	289.20	

IF YOU ARE NOT WILLING TO QUOTE FOR THIS PACKAGE (E) YOU CAN IGNORE THE PAGES 2 to 11 OF THIS PRICE BID.

ELSE IF YOU ARE WILLING TO QUOTE FOR THIS PACKAGE(E) PLEASE ENCLOSE THE PAGES 2 to 11 ALONE IN A SEPERATE SEALED COVER

PART-II (PRICE BID)(PACKAGE-F)

SCHEDULE - A2

Name of Work: MAINTENANCE OF CARPENTRY WORKS AT BHEL TOWNSHIP-TRICHY.
CT:TS:008/18-19 Tender Value: Rs.64 Lakh

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 **T.S No. CT:TS:008/18-19 for a period of 12 months** at the percentage below / at par / above the rates contained in BHEL applicable items of Schedule of Rates 2013-14 quoted in the schedule appended below:

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-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.76,800/-** 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 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 13 to 31**. **Eventhough the applicable items are provided, for the operational convenience the total tender value of RS.64 Lakh will be divided as required number of Sub Work orders.**

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the rates provided in Bill of Quantities appended below from Page 13 to 31 (The percentage is to be quoted here is GST excluded) (Applicable GST will be extra)	
		In Figures	In Words
1.	Rs.64 Lakh		

Examples:

- 1. If the vendor needs to quote 5% below the schedule of rates then vendor need to write 95% in figure column and Ninety Five percent in words.**
- 2. If the vendor needs to quote at par the the schedule of rates then vendor need to write 100% in figure column and One Hundred percent in words.**
- 3.If the vendor needs to quote 5% above the schedule of rates then vendor need to write 105% in figure column and One Hundred Five percent in words**

Note: Applicable BHEL SR(13-14) item details are given below. Contractor has to quote Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % with respect to the rates provided in Bill of Quantities below at page 12 both in figures and in words

BILL OF QUANTITIES

PACKAGE-F (123 items) CT:TS:008/18-19

MAINTENANCE OF CARPENTRY WORKS AT BHEL TOWNSHIP-TRICHY

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
1	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	109029.20	
2	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	
3	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	
4	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	
5	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 holdfasts.	M3	9765.45	
6	0404A	Manufacture, supply and fixing best wooden door with frames and shutters comprising of fully panelled shutter of 35 mm thick and frame of size 95 x 70 mm including cost of holdfasts but excluding cost of furniture fittings and fitting charges. In Teak wood	M2	4807.75	
7	0404B	Manufacture, supply and fixing best wooden door with frames and shutters comprising of fully panelled shutter of 35 mm thick and frame of size 95 x 70 mm including cost of holdfasts but excluding cost of furniture fittings and fitting charges. In Country wood	M2	2257.90	

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
8	0405A	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications and drawings. (Excluding door frame) Rate excludes furniture fittings. In Teak wood (single leaved shutter)	M2	3375.90	
9	0405B	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications and drawings. (Excluding door frame) Rate excludes furniture fittings. In Teak wood (double leaved shutter)	M2	3280.95	
10	0405C	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications and drawings. (Excluding door frame) Rate excludes furniture fittings. In Country wood (single leaved shutter)	M2	1583.15	
11	0405D	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications and drawings. (Excluding door frame) Rate excludes furniture fittings. In Country wood (double leaved shutter)	M2	1552.20	
12	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 lippings 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	
13	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 lippings 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	
14	0407	Manufacture, supply and fixing in position of G.I sheet single leaved door with best country wood frame alround 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 oxi. iron hinges, alu. tower bolts, alu. handles etc., all as per standard specifications and drawings.	M2	1294.80	
15	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	

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Page 14 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
16	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	
17	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	
18	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	
19	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	
20	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	
21	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	
22	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	

CONTRACTOR SEAL & SIGNATURE

Page 15 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
23	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	
24	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	
25	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 and 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	
26	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 and 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	
27	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 and 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	
28	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 and 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	
29	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 and 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	

CONTRACTOR SEAL & SIGNATURE

Page 16 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
30	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 and 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	
31	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 and 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	
32	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 and 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	
33	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 and 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	
34	0409J	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 and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. 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	1920.25	
35	0410A	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.) In Teak wood with 4 mm plain glass panes for shutter.	M2	4900.65	
36	0410B	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.) In Teak wood with 3 mm pin headed glass panes for shutter.	M2	4868.25	

CONTRACTOR SEAL & SIGNATURE

Page 17 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
37	0410C	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.) In Country wood with 4 mm plain glass panes for shutter.	M2	2419.10	
38	0410D	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.) In Country wood with 3 mm pin headed glass panes for shutter.	M2	2386.70	
39	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	
40	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	
41	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	
42	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	
43	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	

CONTRACTOR SEAL & SIGNATURE

Page 18 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
44	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	
45	0413A	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35 mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Teak wood with 4 mm plain glass panes for shutter.	M2	2290.15	
46	0413B	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35 mm 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	
47	0413C	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35 mm thick for ventilator. Rate excludes ventilator frame and furniture fittings.In Country wood with 4 mm plain glass panes for shutter.	M2	1442.40	
48	0413D	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35 mm 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	
49	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	
50	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	
51	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	
52	0415	Labour charges for fixing doors, windows and ventilators including frames and shutters in position etc. complete.(wood or steel)	M2	118.90	

CONTRACTOR SEAL & SIGNATURE

Page 19 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
53	0416A	Labour charges for fixing the following in proper position. Shutter only for doors, windows, ventilators etc.	M2	23.80	
54	0416B	Labour charges for fixing the following in proper position. Frame only for doors, windows, ventilators etc.	EACH	171.25	
55	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	
56	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	
57	0419	Supply of MS round or square bars at site of work for windows, ventilators, other petty works etc.	K.G	49.50	
58	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 prelaminated 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	
59	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	
60	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	
61	0423	Providing and fixing prelaminated 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	
62	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	

CONTRACTOR SEAL & SIGNATURE

Page 20 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
63	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	
64	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	
65	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 and drawings.	RM	1577.15	
66	0427A	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. Hydraulic door closer - universal type (Medium duty)	EA	1425.45	
67	0427B	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. Hydraulic door closer - universal type (Heavy duty)	EA	1507.00	
68	0427C	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. Brass Mortice lock 100 mm, 6 levers and a pair of brass lever handles	EA	492.40	
69	0427D	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. D type Anodised Aluminium handle - 75 mm	EA	20.90	
70	0427E	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. D type Anodised Aluminium handle - 100 mm	EA	31.90	

CONTRACTOR SEAL & SIGNATURE

Page 21 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
71	0427F	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. D type Anodised Aluminium handle - 125 mm	EA	35.75	
72	0427G	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 x 12 mm Aluminium aldrops	EA	140.85	
73	0427H	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 x 16 mm Anodised Aluminium aldrops	EA	170.50	
74	0427I	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 300 x 16 mm Anodised Aluminium aldrops	EA	206.80	
75	0427J	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 50 x 11/12 mm Anodized Aluminium tower bolt	EA	32.90	
76	0427K	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 75 x 11/12 mm Anodized Aluminium tower bolt	EA	38.50	
77	0427L	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 100 x 11/12 mm Anodized Aluminium tower bolt	EA	47.30	

CONTRACTOR SEAL & SIGNATURE

Page 22 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
78	0427M	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 150 x 11/12 mm Anodized Aluminium tower bolt	EA	64.90	
79	0427N	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 200 x 11/12 mm Anodized Aluminium tower bolt	EA	99.00	
80	0427O	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 x 11/12 mm Anodized Aluminium tower bolt	EA	143.00	
81	0427P	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 300 x 11/12 mm Anodized Aluminium tower bolt	EA	176.00	
82	0427Q	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 50 mm oxidised iron butt hinges (Heavy duty)	EA	10.45	
83	0427R	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 125 mm oxidised iron butt hinges (Heavy duty)	EA	22.55	
84	0427S	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 150 mm oxidised iron butt hinges (Heavy duty)	EA	43.45	

CONTRACTOR SEAL & SIGNATURE

Page 23 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
85	0427T	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 125 mm oxidised iron parliamentary hinges (Heavy duty)	EA	42.35	
86	0427U	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 150 x100 mm oxidised iron parliamentary hinges (Heavy duty)	EA	45.10	
87	0427V	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 50 mm oxidised iron tower bolt (Heavy duty)	EA	20.90	
88	0427W	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 100 mm oxidised iron tower bolt (Heavy duty)	EA	30.80	
89	0427X	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 150 mm oxidised iron tower bolt (Heavy duty)	EA	42.90	
90	0427Y	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 mm oxidised iron tower bolt (Heavy duty)	EA	60.50	
91	0427Z	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 300 mm oxidised iron tower bolt (Heavy duty)	EA	77.00	
92	0427A1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 x 16 mm oxidised iron Aldrop (Heavy duty)	EA	126.50	

CONTRACTOR SEAL & SIGNATURE

Page 24 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
93	0427B1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 300 x 16 mm oxidised iron Aldrop (Heavy duty)	EA	129.80	
94	0427C1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 200 mm brass iron hook and eye	EA	72.60	
95	0427D1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 mm brass iron hook and eye	EA	78.65	
96	0427E1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. Anodised aluminium Hanging type door stopper	EA	31.90	
97	0427F1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT handle 125x34x24 mm	EA	38.50	
98	0427G1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT handle 150x34x24 mm	EA	42.90	
99	0427H1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT butt hinges 75x60x10 mm	EA	57.20	

CONTRACTOR SEAL & SIGNATURE

Page 25 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
100	0427I1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT butt hinges 100x75x10 mm	EA	72.60	
101	0427J1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT Tower bolt 152x42x18 mm	EA	82.50	
102	0427K1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT Tower bolt 202x42x18 mm	EA	99.00	
103	0428	Providing and fixing cupboard shutter 25 mm thick, melamine faced prelaminated 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 and 12 mm thick with necessary screws, nickle plated bright finished M.S piano hinges etc. complete.	M2	1471.35	
104	0429	Providing and fixing cupboard shutter 25 mm thick particle board with teak veneering on one side and 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 and 12 mm thick with necessary screws, nickle plated bright finished M.S piano hinges, etc. complete.	M2	1350.35	
105	0430	Providing and fixing factory made flush door shutter 30 mm thick made of prelaminated 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 30 mm wide and 12mm thick with necessary screws, black enamelled M.S butt hinges, etc. complete.	M2	1477.20	

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Page 26 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
106	0431A	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 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 (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin- charge. Extruded section profile size 48x40 mm	RM	188.10	
107	0431B	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 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 (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin- charge. Extruded section profile size 42x50 mm.	RM	177.10	
108	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 (± 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 (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 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 multichambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 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 bathroom door shutter).	M2	2500.60	

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
109	0433	Providing and fixing to existing door frames, 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 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 (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 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 (± 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	
110	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 (± 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 (± 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 and 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	
111	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	

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
112	0436A	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles and rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top and 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 mitred cut and joint with the help of PVC solvent cement and self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm and 15 mm integrally extruded in the middle of the lock rail and fixed with styles with the help of PVC solvent cement and 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	
113	0436B	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles and rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top and 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 mitred cut and joint with the help of PVC solvent cement and self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm and 15 mm integrally extruded in the middle of the lock rail and fixed with styles with the help of PVC solvent cement and self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge. Decorative finish (both side wood grained finish).	M2	3078.50	

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Page 29 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT, BHEL, Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
114	0437	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 and length 775 mm and <u>covered with supply and fixing of 28 gauge G.I sheet at the bottom on both sides of shutter</u> to a width and height of 775 mm and 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.	EACH	714.95	
115	0438A	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 partition partly panelled and partly glazed	M2	123.20	
116	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	
117	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, aluminium 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	
118	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, aluminium 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	
119	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 flattening varnish and two coats of copal varnish)	M2	93.35	

CONTRACTOR SEAL & SIGNATURE

Page 30 of 60

ACCEPTING OFFICER

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
120	0827B	Varnishing with varnish of approved brand and manufacture to give an even shade, all as per standard specifications. Two coats	M2	62.60	
121	0827C	Varnishing with varnish of approved brand and manufacture to give an even shade, all as per standard specifications. One coat	M2	40.95	
122	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	
123	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	

IF YOU ARE NOT WILLING TO QUOTE FOR THIS PACKAGE (F) YOU CAN IGNORE THE PAGES 12 to 31 OF THIS PRICE BID.

ELSE IF YOU ARE WILLING TO QUOTE FOR THIS PACKAGE(F) PLEASE ENCLOSE THE PAGES 12 to 31 ALONE IN A SEPERATE SEALED COVER

PART-II (PRICE BID) (PACKAGE-G)

SCHEDULE - A3

Name of Work: **Maintenance of Fencing Works at BHEL Township, Trichy CT:TS:09/18-19 Tender Value: Rs.16 Lakh**

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 **T.S No. CT:TS:009/18-19 for a period of 12 months** at the percentage below / at par / above the rates contained in BHEL applicable items of Schedule of Rates 2013-14 quoted in the schedule appended below:

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-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.32,000/-** 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 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 **33 to 34**. Eventhough the applicable items are provided, for the operational convenience the total tender value of **RS.16 Lakh** will be divided as required number of Sub Work orders with required items.

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the rates provided in Bill of Quantities appended below from Page 33 to 34(The percentage is to be quoted here is GST excluded) (Applicable GST will be extra)	
		In Figures	In Words
1.	Rs.16 Lakh		

Examples:

- 1. If the vendor needs to quote 5% below the schedule of rates then vendor need to write 95% in figure column and Ninety Five percent in words.**
- 2. If the vendor needs to quote at par the the schedule of rates then vendor need to write 100% in figure column and One Hundred percent in words.**
- 3.If the vendor needs to quote 5% above the schedule of rates then vendor need to write 105% in figure column and One Hundred Five percent in words**

Note: Applicable BHEL SR(13-14) item details are given below. Contractor has to quote Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % with respect to the rates provided in Bill of Quantities below at page 32 both in figures and in words

BILL OF QUANTITIES

PACKAGE-G(10 items) CT:TS:009/18-19

NAME OF WORK:Maintenance of Fencing Works at BHEL Township,Trichy

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement
1	1503	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 100 x 100 mm at top and 150 x 150 mm at bottom and 1.70 m high of which 45 cm will be embedded in cement concrete base below ground level. Rate includes shuttering, casting, finishing, curing, conveying and fixing in position but excluding cost of excavation, concrete base and fabrication charges for reinforcement which will be paid separately under respective items.	EA	179.05	8.64
2	1504	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 100 x 100 mm at top and 150 x 150 mm at bottom and 2.10 m high of which 45 cm will be embedded in cement concrete base below ground level. Rate includes shuttering, casting, finishing, curing, conveying and fixing in position but excluding cost of excavation, concrete base and fabrication charges for reinforcement which will be paid separately under respective items.	EA	212.05	10.56
3	1505	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 200 x 200 x 3650 mm of which 600 mm (approx.) will be embedded in cement concrete base below ground level. Rate includes making necessary groove arrangements on two sides of post for inserting 50 mm thick precast slabs, shuttering, casting, embedding 'Y' angle with necessary lugs, finishing, curing, conveying the posts including all lead, erection in position by embedding in foundation concrete up to a depth of 600 mm (approx.) below ground level true to plumb, line, level etc.complete, all as per drawings and as per instructions of Engineer in charge. Rate excludes cost of excavation, concrete base, precast slabs and it's inserting/fixing charges, fabrication charges for reinforcement and 'Y' angle which will all be paid separately under respective items.	EA	880.25	40.32
4	1506	Conveying RCC fencing post of overall height 1.70 to 2.10 m from stores/stack yard to site of work and fixing in position, line, level etc. Earth work excavation and concrete base will be paid separately.	EA	31.35	
5	1507	Providing and fixing G.I barbed wire of 12 G, 2 ply and 4 barbs with spacing of barbs at 80 mm c/c for fencing including unwinding the coil and fixing in position with proper tension and alignment by means of providing G.I staples on wooden plugs or G.I binding wire tied to 6 mm bar ribs provided in the posts etc. complete.	RM	13.75	

CIVIL ENGINEERING DEPARTMENT, BHEL, Trichy-14

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement
6	1508	Conveying G.I barbed wire, G.I staples/binding wires etc. from BHEL stores and fixing in position for fencing including unwinding the coil, fixing it in posts with proper tension and alignment by means of G.I staples on wooden plugs or G.I binding wire tied to 6 mm bar ribs provided in the posts etc. complete. Rate excludes G.I barbed wire and G.I staples / binding wire which will be supplied by BHEL at stores at free of cost.	RM	1.45	
7	1533	Carrying from BHEL stores to site of work and fixing GI chainlink mesh for fencing including unwinding the roll and fixing in proper position, tension and alignment by means of MS flat as stiffeners, drilled with necessary holes or as the case may be and fixed with RCC / MS fencing posts by bolts, nuts, washers etc., complete. Payment will be made based on the laid area of chainlink mesh only. Rate includes cost of labour, tools and plants and all other incidentals etc., complete but excludes cost of chain link mesh, MS flats, bolts, nuts and washers which will be supplied by BHEL at stores at free of cost. Fabrication charges for MS flats including drilling holes etc. will be paid under separate item.	M2	16.50	
8	1534A	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm.	M2	475.15	
9	1534B	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm, PVC coated to achieve outer dia. not less than 5 mm in required colour and shade.	M2	506.35	
10	1535	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia. wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-Charge.	M2	569.90	

IF YOU ARE NOT WILLING TO QUOTE FOR THIS PACKAGE (G) YOU CAN IGNORE THE PAGES 32 to 34 OF THIS PRICE BID. ELSE IF YOU ARE WILLING TO QUOTE FOR THIS PACKAGE(G) PLEASE ENCLOSE THE PAGES 32 to 34 ONLY IN A SEALED COVER

CONTRACTOR SEAL & SIGNATURE

Page 34 of 60

ACCEPTING OFFICER

PART-II (PRICE BID) (PACKAGE-H)

SCHEDULE - A4

Name of Work: **Interior Decoration works at BHEL Township, Trichy** CT:TS:010/18-19 Tender Value: Rs.16 Lakh

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 **T.S No. CT:TS:010/18-19 for a period of 12 months** at the percentage below / at par / above the rates contained in BHEL applicable items of Schedule of Rates 2013-14 quoted in the schedule appended below:

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-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.32,000/-** 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 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 36 to 55**. **Eventhough the applicable items are provided, for the operational convenience the total tender value of RS.16 Lakh will be divided as required number of Sub Work orders with required items.**

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the rates provided in Bill of Quantities appended below from Page 36 to 55 (The percentage is to be quoted here is GST excluded) (Applicable GST will be extra)	
		In Figures	In Words
1.	Rs.16 Lakh		

Examples:

- 1. If the vendor needs to quote 5% below the schedule of rates then vendor need to write 95% in figure column and Ninety Five percent in words.**
- 2. If the vendor needs to quote at par the the schedule of rates then vendor need to write 100% in figure column and One Hundred percent in words.**
- 3.If the vendor needs to quote 5% above the schedule of rates then vendor need to write 105% in figure column and One Hundred Five percent in words**

Note: Applicable BHEL SR(13-14) item details are given below. Contractor has to quote Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % with respect to the rates provided in Bill of Quantities below at page 35 both in figures and in words

BILL OF QUANTITIES
PACKAGE-H (82 items) CT:TS:010/18-19

Interior Decoration works at BHEL Township, Trichy CT:TS:010/18-19 Tender Value: Rs.16 Lakh

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
1	1201A	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections of approved make conforming to IS:733 and 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and joined mechanically wherever rerquired including cleat angle, aluminium snap beading for glazing / panelling, C.P brass / stainless steel screws, all complete as per architectural drawings and insrtuitions of Engineer-in-charge. (Glazing and panelling to be paid for separately) For fixed portion - Anodised aluminium (anodised transperant or dyed to required shade according to IS 1868, minimum anodic coating of grade AC 15)	KG	302.20	
2	1201B	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections of approved make conforming to IS:733 and 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and joined mechanically wherever rerquired including cleat angle, aluminium snap beading for glazing / panelling, C.P brass / stainless steel screws, all complete as per architectural drawings and insrtuitions of Engineer-in-charge. (Glazing and panelling to be paid for separately) 'For shutters of doors, windows and ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including cost of PVC/ neoprene gasket required. (Fittings shall be paid for separately) Anodised aluminium (anodised transperant or dyed to required shade according to IS 1868, minimum anodic coating of grade AC 15)	KG	324.40	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
3	1202	Extra for powder coated aluminium (minimum thickness of powder coating 50 micron) sections instead of anodised aluminium sections.	KG	26.40	
4	1203	Extra for polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) sections instead of anodised aluminium sections.	KG	33.00	
5	1204A	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per drawing and instructions of Engineer-in- charge. (Cost of aluminium snap beading shall be paid in basic item.) With float glass panes of 4 mm thick	M2	797.60	
6	1204B	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per drawing and instructions of Engineer-in- charge. (Cost of aluminium snap beading shall be paid in basic item.) With float glass panes of 5.50 mm thick	M2	948.40	
7	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	
8	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 rawl 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	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
9	1207	Providing and fixing 6 mm dia G.I level adjusting hangers (upto 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	
10	1208	Providing and fixing machine moulded anodised aluminium (anodised transparent 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	
11	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 and 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 rawl 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, cutouts 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	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
12	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 cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , suspended 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 be 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	
13	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 / 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 be 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	
14	1211A	Providing 10 mm thick plaster of paris (Gypsum anhydrous) ceiling upto a height of 5 metre above floor level over first class nail 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) Flat surfaces	M2	715.50	

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
15	1211B	Providing 10 mm thick plaster of paris (Gypsum anhydrous) ceiling upto a height of 5 metre above floor level over first class kail 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	
16	1212	Extra for any sunk or raised mouldings in the plaster of paris (Gypsum anhydrous) ceiling.	M2	207.60	
17	1213	Extra for providing plaster of paris (Gypsum anhydrous) ceiling for every 1m height above 5 metre height from floor level. (Height beyond 5 metre to be measured for extra payment)	M2	84.05	
18	1214	Providing and fixing 100 mm brass lock (mortise latch and lock with six levers) for aluminium doors including necessary cutting and making good etc.complete.	EA	371.40	
19	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	
20	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	
21	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	
22	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	
23	1219A	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and 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 thick (245-255g/sqft)	M2	1922.40	

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Page 40 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
24	1219B	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and 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 thick 175-185g/sqft	M2	1637.75	
25	1219C	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and 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 thick 125-135g/sqft	M2	1495.40	
26	1219D	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and 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 thick 315-325g/sqft	M2	2207.15	
27	1219E	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and 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 thick 230-240g/sqft	M2	1993.60	
28	1219F	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and 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 thick 160-170g/sqft	M2	1708.90	

CONTRACTOR SEAL & SIGNATURE

Page 41 of 60

ACCEPTING OFFICER

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
29	1219G	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and 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 thick 410-420 g/sqft	M2	2420.70	
30	1219H	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows/ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc.complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-2" open -5.5 mm thick 200-210g/sqft	M2	2207.15	
31	1220	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 prelaminated (both side) particle board of approved shade with Powder coated aluminium frame work. The middle 120 cm height of partition shall be of glazed using 5 mm thick plain glass and powder coated 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 Powder coated aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 ¾" x 1 ¾" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 ½" x 1 ½" 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.	M2	2365.85	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
32	1221	<p>Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below: 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 prelaminate (both side) particle board of approved shade with Powder coated aluminium frame work. 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 ¾" x 1 ¾" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 ½" x 1 ½" 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	
33	1222	<p>Manufacturing, supplying and fixing in position of Aluminium partitions for an approximate height of 1.50m as detailed below: 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 prelaminate (both side) particle board of approved shade with Powder coated aluminium frame work. The top 0.60 m height of partition shall be of glazed using 5 mm thick frosted glass and anodized aluminium 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. The frame work shall be with Powder aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 ¾" x 1 ¾" and 1.70 (1.312 kg/m) mm thick approximate. The middle, top and vertical members shall be of size 2 ½" x 1 ½" 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 other incidentals etc., complete</p>	M2	3313.55	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
34	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 around vertical and horizontal outer frame shall be with 4" x 1³/₄" x 1.60 mm (unit wt. 1.312 kg/m)sections and for door shutter the bottom member shall be with 3³/₄" x 1³/₄" x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1³/₄" x 1³/₄" x 1.52 mm (unit wt. 0.885 kg/m) thick and shutter divider shall be 2 nos of of 1³/₄" x 1³/₄" 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 prelaminated (both side) particle board . Door shall be provided with 2 Nos. of 300 mm long anodized aluminium handle, One No. of ISI marked heavy duty door closer of approved brand, One No. 200 mm long anodized aluminium 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	
35	1224	<p>Supplying and fixing in position of aluminium ventilator using Powder coated aluminium section of size 2¹/₂" x 1¹/₂" and 1.28 mm thick (0.754 kg/m) for frames conforming 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.</p>	M2	4017.65	
36	1225	<p>Providing and fixing powder coated 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.</p>	M2	2968.60	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
37	1226	<p>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 prelaminated (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 bottom member shall be of size 3 ¾" x 1 ¾" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 ½" x 1 ½" 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	2214.40	
38	1227	<p>Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below: 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 prelaminated (both side) particle board of approved shade with anodised (25 micron) aluminium frame work. FRAME WORK: The frame work shall be with anodised (25 micron) aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 ¾" x 1 ¾" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 ½" x 1 ½" 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 RCC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other incidentals etc., complete.</p>	M2	2232.60	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
39	1228	<p>Manufacturing, supplying and fixing in position of Aluminium partitions for an approximate height of 1.50m as detailed below: 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 prelaminate (both side) particle board of approved shade with anodised (25 micron) aluminium frame work. The top 0.60 m height of partition shall be of glazed using 5 mm thick frosted glass and anodized aluminium 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. The frame work shall be with anodised 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 (1.312 kg/m) mm thick 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 centers 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	2965.35	
40	1229	<p>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 around 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 (unit wt. 0.885 kg/m) thick and shutter divider shall be 2 nos of of 1 3/4" x 1 3/4" 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 prelaminate (both side) particle board . Door shall be provided with 2 Nos. of 300 mm long anodized aluminium handle, One No. of ISI marked heavy duty door closer of approved brand, One No. 200 mm long anodized aluminium 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	3165.55	

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
41	1230	Supplying and fixing in position of aluminium ventilator using anodised (25 micron) aluminium section of size 2 ½" x 1 ½" and 1.28 mm thick (0.754 kg/m) for frames conforming 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	
42	1231	Providing and fixing anodised (25 micron) aluminium two track sliding windows of approved colours aluminium sections of size 60 x 28 x 1.20 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	
43	1232A	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 / 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 be 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. 7.5MM NANO TILES 600mm X 600mm	M2	949.00	

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Page 47 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
44	1232B	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 / 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 be 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. 4MM EVEREST TILES OSANIC 600mm X 600mm	M2	1037.75	
45	1233A	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 and fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 12 mm flat pressed 3 layer medium density particle boards - Grade - I	M2	621.20	
46	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 and 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 formoldehyde synthetic resin bonded pressed conforming to IS 3087.	M2	632.25	
47	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 and 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	

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Page 48 of 60

ACCEPTING OFFICER

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
48	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 and fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 20 mm thick thermocole boards. (22 K.G/CUM)	M2	268.35	
49	1234A1	Supply and fixing the following boards/sheets of approved brand and 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	
50	1234A2	Supply and fixing the following boards/sheets of approved brand and 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	
51	1234A3	Supply and fixing the following boards/sheets of approved brand and 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	
52	1234A4	Supply and fixing the following boards/sheets of approved brand and 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	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
53	1234A5	Supply and fixing the following boards/sheets of approved brand and 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	
54	1234A6	Supply and fixing the following boards/sheets of approved brand and 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	
55	1234A7	Supply and fixing the following boards/sheets of approved brand and 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	
56	1234A8	Supply and fixing the following boards/sheets of approved brand and 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	
57	1234A9	Supply and fixing the following boards/sheets of approved brand and 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	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
58	1234A10	Supply and fixing the following boards/sheets of approved brand and 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	
59	1234A11	Supply and fixing the following boards/sheets of approved brand and 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	
60	1234A12	Supply and fixing the following boards/sheets of approved brand and 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	
61	1234A13	Supply and fixing the following boards/sheets of approved brand and 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	
62	1234A14	Supply and fixing the following boards/sheets of approved brand and 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	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
63	1234A15	Supply and fixing the following boards/sheets of approved brand and 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	
64	1234A16	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	366.05	
65	1234A17	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	438.15	
66	1234A18	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	567.75	
67	1234A19	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	760.60	

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
68	1234A20	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	1136.25	
69	1234A21	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	419.50	
70	1234A22	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	509.60	
71	1234A23	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	665.90	
72	1234A24	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	897.30	

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
73	1234A25	Supply and fixing the following boards/sheets of approved brand and 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-(Novapan-Prime or equivalent)	M2	1353.75	
74	1234A26	Supply and fixing the following boards/sheets of approved brand and 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	
75	1234A27	Supply and fixing the following boards/sheets of approved brand and 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	
76	1234A28	Supply and fixing the following boards/sheets of approved brand and 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	
77	1234A29	Supply and fixing the following boards/sheets of approved brand and 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	

CONTRACTOR SEAL & SIGNATURE

Page 54 of 60

ACCEPTING OFFICER

Sl.No.	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
78	1234A30	Supply and fixing the following boards/sheets of approved brand and 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	
79	1234A31	Supply and fixing the following boards/sheets of approved brand and 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	
80	1234A32	Supply and fixing the following boards/sheets of approved brand and 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	
81	1234A33	Supply and fixing the following boards/sheets of approved brand and 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	
82	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	

IF YOU ARE NOT WILLING TO QUOTE FOR THIS PACKAGE (H) YOU CAN IGNORE THE PAGES 35 to 55 OF THIS PRICE BID. ELSE IF YOU ARE WILLING TO QUOTE FOR THIS PACKAGE(H) PLEASE ENCLOSE THE PAGES 35to 55 ONLY IN A SEALED COVER

PART-II (PRICE BID) (PACKAGE-I)

SCHEDULE - A5

Name of Work: **Function Arrangement works at BHEL Township, Trichy** CT:TS:011/18-19 Tender Value: Rs.12 Lakh

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 **T.S No. CT:TS:011/18-19 for a period of 12 months** at the percentage below / at par / above the rates contained in BHEL applicable items of Schedule of Rates 2013-14 quoted in the schedule appended below:

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-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.24,000/-** 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 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 57 to 60**. **Eventhough the applicable items are provided, for the operational convenience the total tender value of RS.12 Lakh will be divided as required number of Sub Work orders with required items.**

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the rates provided in Bill of Quantities appended below from Page 57 to 60 (The percentage is to be quoted here is GST excluded) (Applicable GST will be extra)	
		In Figures	In Words
1.	Rs.12 Lakh		

Examples:

- 1. If the vendor needs to quote 5% below the schedule of rates then vendor need to write 95% in figure column and Ninety Five percent in words.**
- 2. If the vendor needs to quote at par the the schedule of rates then vendor need to write 100% in figure column and One Hundred percent in words.**
- 3.If the vendor needs to quote 5% above the schedule of rates then vendor need to write 105% in figure column and One Hundred Five percent in words**

Note: Applicable BHEL SR(13-14) item details are given below. Contractor has to quote Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % with respect to the rates provided in Bill of Quantities below at page 56 both in figures and in words

BILL OF QUANTITIES
PACKAGE-I (26 items) CT:TS:011/18-19

Function Arrangement works at BHEL Township, Trichy CT:TS:011/18-19 Tender Value: Rs.12 Lakh

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
1	1514	Labour charges for providing tarpaulin pandal to an area upto 25 Sq.m in ground floor / first floor and removing the same after the function is over. All materials such as tarpaulin, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials.	EA	646.40	
2	1515A	Labour charges for conveying 200 litre capacity drum and pouring with full of water for function and handing over the empty drum to Stores after function is over. Drum will be supplied by BHEL at Stores at free of charges. Water has to be collected either from Township water tanks or Equalising Reservoir. Rate includes to and fro transportation. At Quarters of Kailasapuram / Kamarajapuram Township.	EA	264.05	
3	1515B	Labour charges for conveying 200 litre capacity drum and pouring with full of water for function and handing over the empty drum to Stores after function is over. Drum will be supplied by BHEL at Stores at free of charges. Water has to be collected either from Township water tanks or Equalising Reservoir. Rate includes to and fro transportation. At Quarters of Nehru Nagar/ burial ground	EA	314.05	
4	1516A	Labour charges for providing Shamiana of following sizes and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation. 40' X 40'	EA	1597.50	
5	1516B	Labour charges for providing Shamiana of following sizes and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation. 40' X 20'	EA	1043.90	
6	1516C	Labour charges for providing Shamiana of following sizes and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation. 20' X 12'	EA	501.30	
7	1517	Hire charges for providing 4 ' 40 watts tube light fitting with tube, necessary wire, plug etc. in the tarpaulin pandal / shamiana at G.F / F.F and removing the same after the function is over.	EA	36.30	

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
8	1518	Labour charges for providing stage for functions and removing the same and handing over to Stores after the programme. Necessary stage materials will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation.	M2	40.10	
9	1519	Labour charges for erection of flag post and tying the flag. Rate includes digging hole, erection of post and removing the same after the function is over including refilling the hole and handing over the flag post, flag etc. to Stores after the programme. Necessary flag post and flag will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation.	EA	21.30	
10	1520	Labour charges for spreading coir mat and removing the same after the function is over. Rate includes to and fro transportation, labour etc. complete. Coir mat will be issued by BHEL at Stores at free of charges.	M2	5.90	
11	1521A	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be issued by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials. For stage of size 32' x 20'	EA	1358.80	
12	1521B	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be issued by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials. For stage of size 20' x 20' or 20' x 18'	EA	1052.10	
13	1521C	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be issued by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials. For stage of size 20' x 12'	EA	750.90	
14	1522A	Carrying the following from BHEL Stores to site of work and returning the same after the function is over. Rate includes labour, to and fro transportation etc. PVC moulded chair	EA	4.80	
15	1522B	Carrying the following from BHEL Stores to site of work and returning the same after the function is over. Rate includes labour, to and fro transportation etc. Wooden chair with cushion	EA	12.00	

CIVIL ENGINEERING DEPARTMENT, BHEL, Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
16	1523A	Labour charges for providing Shamiana of size 40' X 40' and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes loading and unloading charges but transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	1421.45	
17	1523B	Labour charges for providing Shamiana of size 40' X 20' and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes loading and unloading charges but transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	911.90	
18	1523C	Labour charges for providing Shamiana of size 20' X 12' and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes loading and unloading charges but transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	402.30	
19	1523D	Labour charges for providing stage for functions and removing the same and handing over to Stores after the programme. Necessary stage materials will be supplied by BHEL at Stores at free of charges transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc. but including loading and unloading charges, instead of transporting by the contractor.	M2	32.20	
20	1523E	Labour charges for loading, unloading and erection of flag post and tying the flag. Rate includes digging hole, erection of post and removing the same after the function is over including refilling the hole and handing over the flag post, flag etc. to Stores after the programme. Necessary flag post and flag will be supplied by BHEL at Stores at free of charges and transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	16.90	
21	1523F	Labour charges for loading, unloading and spreading coir mat and removing the same after the function is over Coir mat will be issued by BHEL at Stores at free of charges.	M2	1.10	
22	1523G	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be issued by BHEL at Stores at free of charges. Rate excludes to and fro transportation of materials but includes loading and unloading charges . For stage of size 32' x 20'	EA	1072.80	

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Page 59 of 60

ACCEPTING OFFICER

CIVIL ENGINEERING DEPARTMENT,BHEL,Trichy-14

Sl.No	Item No.	Description	Unit	Rate (Rs.P)	Cement in KG
23	1523H	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be issued by BHEL at Stores at free of charges. Rate excludes to and fro transportation of materials but includes loading and unloading charges . For stage of size 20' x 20' or 20' x 18'	EA	804.60	
24	1523I	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be issued by BHEL at Stores at free of charges. Rate excludes to and fro transportation of materials but includes loading and unloading charges . For stage of size 20' x 12'	EA	536.40	
25	1523J	Carrying the PVC moulded chair from BHEL Stores to site of work and returning the same after the function is over. Rate includes labour, loading and unloading charges but excludes to and fro transportation etc.	EA	0.85	
26	1523K	Carrying the Wooden chair with cushion from BHEL Stores to site of work and returning the same after the function is over. Rate includes labour, loading and unloading charges but excludes to and fro transportation etc.	EA	2.10	

IF YOU ARE NOT WILLING TO QUOTE FOR THIS PACKAGE (I) YOU CAN IGNORE THE PAGES 56 to 60 OF THIS PRICE BID. ELSE IF YOU ARE WILLING TO QUOTE FOR THIS PACKAGE(I) PLEASE ENCLOSE THE PAGES 56 to 60 ONLY IN A SEALED COVER

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Page 60 of 60

ACCEPTING OFFICER