

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES		TENDER NO: BHEL/CSU/ELE/ETC-01			
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR					
BILL OF QUANTITY AND PRICE SCHEDULE FOR ETC WORK (11 / 0.433 KV) - (PART - I) FOR EQUIPMENTS & MATERIALS SUPPLIED BY BHEL					
SN	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs.)	TOTAL PRICE Rs.)
10	CABLE LAYING (either on trays, racks, supports, trenches, through pipes, under ground, overground structures, through wall etc)				
	Cable laying including laying, dressing, tagging, soldering, taping, jointing, crimping termination, drilling / cutting holes in gland plates, laying can be either on trays, racks, supports, underground, over ground, through wall etc, clamping, identification, ets. All erection materials viz cable glands, ferrules, lugs, ties, straps, Al tag, marker, GI / PVC pipe with fixtures, flexible steel conduits will be supplied by the bidder.				
a	1100 Volts grade XLPE Power cables, armoured, PVC insulated Aluminium conductor FRLS type (cables supply in BHEL scope)				
(i)	3.5Cx300 sq mm	Meter	2500		
(ii)	3.5Cx185 sq mm	Meter	4000		
(iii)	3.5Cx35 sq mm	Meter	2000		
11	1000 KVA DG set (Support service only. Erection, testing & commissioning in BHEL / DG vendor scope)	Set	2		
	Unloading, shifting, placing on foundation, inter panel connections, cabling, steel fabrication work, if any, with supply of T&P, labour, materials etc.				

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BILL OF QUANTITY AND PRICE SCHEDULE FOR ETC WORK (11 / 0.433 KV) - (PART - I) FOR EQUIPMENTS & MATERIALS SUPPLIED BY BHEL								
SN	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs.)	TOTAL PRICE Rs.)			
12	Spare parts (testing only) (Refer Part - III)	Lot	1					
	Note							
(a)	Unloadign, shifting, placing on foundation / layout, alignment & fixing / grouting, etc. Minor civil work (where required). All erection materials viz structural steel & accessories, GI / PVC pipe with fixtures, flexible steel conduits, paints, etc will be supplied by the bidder.							
(b)	The contractor shall be familiar with the type of equipments. Brief ETC procedures with safety measure, deployment of T &P, instruments, safety appliances, tests, etc. shall be submitted along with offer. However, final ETC procedure shall be jointly prepared prior to commencement of work.							
	TOTAL							
	SERVICE TAX (PI specify rate) for service portion							
	GRAND TOTAL							

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES	
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR	
BILL OF QUANTITY AND PRICE SCHEDULE FOR ETC WORK (11 / 0.433 KV) - (PART - II) FOR EQUIPMENTS & MATERIALS SUPPLIED BY THE CONTRACTOR	

SN	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs.)	TOTAL PRICE Rs.)
1	SUPPLY, ERECTION, TESTING (WHERE APPLICABLE)				
a	Earth electrode (maintenance free type)	Nos.	24		
b	Cable rack (bracket) including painting	MT	2		
c	Other Structural work associated with HT / LT panels, Transformers,	MT	1		
d	Cable tray & accessories				
(i)	Ladder type GI cable tray Size 400mm W x 2.5mm Th x 2.5meter L, Channel 50mm x 20mm, Runner 30x15 with connecting & fastening accessories.	Meter	550		
(ii)	Horizontal Tee for above	Nos.	5		
e	Earthing of all installation with GI Strips				
(i)	50x6 mm (GI)	Meter	2000		
(ii)	25x3 mm (GI)	Meter	200		
f	Distribution boards (Details enclosed)				
(i)	1A (BL) DB-1 : 1 Incoming (400A)+ 3 Outgoing (1x350A, 2x32A)	Nos.	1		
(ii)	1A (SNM) DB-2 : 1 Incoming (125A)+ 3 Outgoing (1x75A, 2x32A)	Nos.	1		
(iii)	1A (CR) DB-3 : 1 Incoming (400A)+ 6 Outgoing 3x50A, 3x32A)	Nos.	1		

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES					
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR					
BILL OF QUANTITY AND PRICE SCHEDULE FOR ETC WORK (11 / 0.433 KV) - (PART - II) FOR EQUIPMENTS & MATERIALS SUPPLIED BY THE CONTRACTOR					
(iv)	1B (VL) DB-4 : 1 Incoming (320A)+ 6 Outgoing (1x125, 1x75A, 1x50A, 3x25A,)	Nos.	1		
(v)	1B (CMP) DB-5 : 1 Incoming (125A)+ 3 Outgoing (2x50, 1x25A)	Nos.	1		
(v)	2A (CMP) DB-6 : 1 Incoming (125A)+ 3 Outgoing (1x50, 2x25A)	Nos.	1		
2	CABLE LAYING (either on trays, racks, supports, trenches, through pipes, under ground, overground structures, through wall etc)				
	Cable laying including supply of cables, laying, dressing, tadding, soldering, taping, jointing, crimping termination, drilling / cutting holes in gland plates, laying can be either on trays, racks, supports, undergroung, overground, through wall etc, clamping, identification, ets. All erection materials viz cable glangs (double compression), ferrules, lugs, ties, straps, Al tag, marker, GI / PVC pipe with fixtures, flexible steel conduits will be supplied by the bidder.				
a	1100 Volts grade XLPE Power cables, armoured, PVC insulated Aluminium conductor FRLS type (cables supply in BHEL scope)				
(i)	3.5Cx25 sq mm	Meter	100		
(ii)	3.5Cx16 sq mm	Meter	100		
(iii)	3.5Cx6 sq mm	Meter	100		

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES			
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR			
BILL OF QUANTITY AND PRICE SCHEDULE FOR ETC WORK (11 / 0.433 KV) - (PART - II) FOR EQUIPMENTS & MATERIALS SUPPLIED BY THE CONTRACTOR			
b	1100 Volts grade Control cables, armoured, PVC insulated Copper conductor FRLS type		
(i)	14Cx2.5 sq mm	Meter	150
(ii)	10Cx2.5 sq mm	Meter	1500
(iii)	5Cx2.5 sq mm	Meter	250
(iv)	1Cx1.5 sq mm	Meter	200
(v)	1Cx2.5 sq mm	Meter	200
(vi)	2Cx2.5 sq mm	Meter	200
3	Supply, laying, fixing of pipes (underground / overground)		
(a)	GI pipe with jointing materials, bends, etc		
(i)	100 NB	RM	200
(ii)	80 NB	RM	200
(ii)	50 NB	RM	100
(b)	PVC pipe with jointing materials, bends, etc		
(i)	100 NB	RM	100
(ii)	80 NB	RM	100
(ii)	50 NB	RM	50
(c)	RCC pipe with collar & sealing materials.		
(i)	100 NB	RM	20
(ii)	150 NB	RM	20
(ii)	50 NB	RM	20
	CIVIL WORK		

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES					
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR					
BILL OF QUANTITY AND PRICE SCHEDULE FOR ETC WORK (11 / 0.433 KV) - (PART - II) FOR EQUIPMENTS & MATERIALS SUPPLIED BY THE CONTRACTOR					
(a)	MINOR CIVIL WORK		included in respective erection work	included in respective erection work	
(I)	Minor civil works including secondary grouting/under pinning of structure i.e. filling the gap between structure and foundation after leveling, alignment shall be done by the contractor at no extra cost. This shall also include necessary materials required for doing the work.		included in respective erection work	included in respective erection work	
(II)	Minor civil works of final / secondary grouting of structures, towers equipment has to be arranged by the contractor and the rate for the same should be included in respective erection. Final / secondary grouting means filling the gap between the structure and foundation after leveling, alignment etc.		included in respective erection work	included in respective erection work	
(III)	Minor civil work shall also include fixing of foundation bolts for radiator / cooling oil pump etc. Foundation bolts for such work shall however be arranged by BHEL.		included in respective erection work	included in respective erection work	
(b)	RCC work				
(i)	Breaking of existing RCC work	CUM			1
(ii)	Restoring of RCC work	CUM			1
(c)	Brick work				
(i)	Breaking of existing brick work	SUM			25
(ii)	Restoring of brick work with plastering	SUM			25
(d)	Road work				

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES						
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR						
BILL OF QUANTITY AND PRICE SCHEDULE FOR ETC WORK (11 / 0.433 KV) - (PART - II) FOR EQUIPMENTS & MATERIALS SUPPLIED BY THE CONTRACTOR						
(i)	Excavation in existing roadbrick work					
(ii)	Backfilling & compaction	RM				
(e)	Excavation & back filling for under ground cable laying	CUM	200			
3	Supply of Spare parts (testing only) (Refer Part - IV)	Lot	1	Inclusive in supply	Inclusive in supply	
	NOTE					
(a)	Unloading, shifting, placing on foundation / layout, alignment & fixing / grouting, etc. Minor civil work (where required). All erection materials viz structural steel & accessories, GI / PVC pipe with fixtures, flexible steel conduits, paints, etc will be supplied by the bidder.					
(b)	The contractor shall be familiar with the type of equipments. Brief ETC procedures with safety measure, deployment of T & P, instruments, safety appliances, tests, etc. shall be submitted along with offer. However, final ETC procedure shall be jointly prepared prior to commencement of work.					
(c)	The items, consumables shall be of approved quality. Tenderer shall specify the makes being proposed.					
	TOTAL					
	SERVICE TAX (PI specify rate) for service portion					
	GRAND TOTAL					

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR

BILL OF QUANTITY AND PRICE SCHEDULE OF SPARES (11 / 0.433 KV) - (PART - III)

SN	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs.)	TOTAL PRICE (Rs.)
1	11 KV, HT distribution switchgear with 1 incomer & 2 outgoing	set	1		
2	2 MVA , 11/0.433 KV oil filled type transformer				
a	HV bushing with metal parts &gaskets.	Nos	1		
b	L.V bushing with metal parts &gaskets	Nos	1		
c	WTI with alarm &trip contacts.	Nos	1		
d	OTI with alarm & trip contacts	Nos	1		
e	Magnetic oil level gauge	Nos	1		
f	Diaphragm of explosion vent	Nos	1		
g	Buchholz relay	Nos	1		
h	Silica gel charge	charge	3		
i	Floats with contacts for Buchholz relay	set	1		
j	Set of gaskets	set	2		
k	Set of valves(1 no of each size &type.)	set	1		

**POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS
ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND
UTILITIES AT CSU JAGDISHPUR**

BILL OF QUANTITY AND PRICE SCHEDULE OF SPARES (11 / 0.433 KV) - (PART - III)

1	Set of windings with suitable oil container (container shall be completely filled with transformer oil)	Nos	1 no. of each rating & type of rating & type of transformer.	
m	Contact for tap changer	set	1	
n	Pressure relief device for 2 MVA transformer	Nos	1	
o	Hydraulic/screw jacks	Nos	4	
p	Any other item considered essential by the bidder.	set	1	
3	Bus duct 10 meter length with 2 Nos. 90 Deg bends from transformer to LT panels			
4	415 V LT switchgear			
a	Spring charging motors 5 nos. of each type and rating	Set	1	
b	Closing and tripping coils 10 nos. of each type and rating	Set	1	
c	Control fuses 10 nos. of each type and rating	Set	1	
d	Control MCB"s 3 nos. of each type and rating	Set	1	
e	Auxiliary relays 10 nos. of each type and rating	Set	1	
f	Timers 3 nos. of each type and rating	Set	1	
g	Power TB"s 10 nos. of each type and rating	Set	1	
h	Control TB"s 10 nos. of each type and rating	Set	1	

**ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS
ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES
AT CSU JAGDISHIPUR**

BILL OF QUANTITY AND PRICE SCHEDULE OF SPARES (11 / 0.433 KV) - (PART - III)			
i	Slide in contact assembly 10 nos. of each type and rating	Set	1
j	Shrouds 10 sets of each type and rating	Set	1
k	Gaskets 5 sets	Set	1
l	Push buttons, Limit position switches, L/R switches, Breaker control switches 10 nos. of each type and rating	Set	1
(v)	DCDB	set	1
(vi)	110 V Battery bank	set	1
(vii)	110 V Battery charger	set	1
(viii)	415 V MLDB	set	1
(ix)	Lighting transformer	set	1
4	1000 KVA DG set		2
a	Oil filter	Set	8 nos.
b	Fuel Filter	Set	4 nos.
c	Air Filter	Set	02 nos.
d	AVR	Set	01 nos.
e	Diodes	Set	01 set
	TOTAL		
	SERVICE TAX (PI specify rate) for service portion		
	GRAND TOTAL		

**POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS
ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES
AT CSU JAGDISHPUR**

BILL OF QUANTITY AND PRICE SCHEDULE OF SPARES WORK (11 / 0.433 KV) - (PART - IV)

SN	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs.)	TOTAL PRICE Rs.)
1	SUPPLY OF SPARES FOR THE ITEMS AS COVERED IN PART-II)				
a	Earth electrode (maintenance free type)	Nos.	2		
b	Cable rack (bracket) items	MT	0		
c	Other Structural items	MT	0		
d	Cable tray & accessories				
(i)	Ladder type GI cable tray Size 400mm W x 2.5mm Th x 2.5meter L, Channel 50mm x 20mm, Runner 30x15 with connecting & fastening accessories.	Meter	55		
(ii)	Horizontal Tee for above	Nos.	1		
e	GI Strips				
(i)	50x6 mm (GI)	Meter	200		
(ii)	25x3 mm (GI)	Meter	20		
f	Distribution boards				
(i)	1A (BL) DB-1 : 1 Incoming (400A)+ 3 Outgoing (1x350A, 2x32A)	Nos.	0		
(ii)	1A (SNM) DB-2 : 1 Incoming (125A)+ 3 Outgoing (1x75A, 2x32A)	Nos.	0		
(iii)	1A (CR) DB-3 : 1 Incoming (400A)+ 6 Outgoing 3x50A, 3x32A)	Nos.	0		
(iv)	1B (VL) DB-4 : 1 Incoming (320A)+ 6 Outgoing (1x125, 1x75A, 1x50A, 3x25A,)	Nos.	0		

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES			
ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR			
BILL OF QUANTITY AND PRICE SCHEDULE OF SPARES WORK (11 / 0.433 KV) - (PART - IV)			
		Nos.	
(v)	1B (CMP) DB-5 : 1 Incoming (125A)+ 3 Outgoing (2x50, 1x25A)	0	
(v)	2A (CMP) DB-6 : 1 Incoming (125A)+ 3 Outgoing (1x50, 2x25A)	0	
2	CABLES		
a	1100 Volts grade XLPE Power cables, armoured, PVC insulated Aluminium conductor FRLS type (cables supply in BHEL scope)		
(i)	3.5Cx25 sq mm	Meter	10
(ii)	3.5Cx16 sq mm	Meter	10
(iii)	3.5Cx6 sq mm	Meter	10
b	1100 Volts grade Control cables, armoured, PVC insulated Copper conductor FRLS type		
(i)	14Cx2.5 sq mm	Meter	0
(ii)	10Cx2.5 sq mm	Meter	15
(iii)	5Cx2.5 sq mm	Meter	150
(iv)	1Cx1.5 sq mm	Meter	25
(v)	1Cx2.5 sq mm	Meter	20
(vi)	2Cx2.5 sq mm	Meter	20
3	Supply, laying, fixing of pipes (underground / overground)		
(a)	GI pipe with jointing materials		

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES ERECTION, TESTING AND COMMISSIONING AND HANDING OVER OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR			
BILL OF QUANTITY AND PRICE SCHEDULE OF SPARES WORK (11 / 0.433 KV) - (PART - IV)			
(i)	100 NB	RM	0
(ii)	80 NB	RM	0
(ii)	50 NB	RM	0
(b)	PVC pipe with jointing materials		
(i)	100 NB	RM	0
(ii)	80 NB	RM	0
(ii)	50 NB	RM	0
(c)	RCC pipe with collar & sealing materials.		
(i)	100 NB	RM	0
(ii)	150 NB	RM	0
(ii)	50 NB	RM	0
	TOTAL		
	SERVICE TAX (PI specify rate) for service portion		
	GRAND TOTAL		
	TOTAL		
	SERVICE TAX (PI specify rate) for service portion		
	GRAND TOTAL		

POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES
OPERTAION AND MAINTENENCE OF EQUIPMENTS & MATERIALS ASSOCIATED WITH POWER SUPPLY FROM ELECTRICAL BUILDING TO EQUIPMENTS AND UTILITIES AT CSU JAGDISHPUR

BILL OF QUANTITY AND PRICE SCHEDULE FOR OPERAION AND MAINTENENCE WORK (11 / 0.433 KV)(PART - V)

SN	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE (Rs.)	TOTAL PRICE Rs.)
1	Operation and maintenance in all shifts for one year after commissioning and handing over of equipments and accessories as per Part-I, Part-II, Part-III, Part-IV. O&M Spares, consumables, lubricants, fuel, electricity and other accessories shall be supplied by BHEL.				
	The contractor will arrange Supervisory, Skilled & Un-skilled staff and deploy all the general purpose tools, instruments, other T&P, materials, etc. Cost of Contractor's establishment will be included in the offer.				
	This part of the work will commence after completion of work as per Part-I, Part-II as certified by the Engineer in-charge.				
a	Supervisory staff per shift per day	Man/days	1		
b	Skilled workmen / technicians per shift per day	Man/days	2		
c	Un-skilled workmen per shift per day	Man/days	2		
d	Additional staff (when required)				
(i)	Supervisory staff per day	Man/days	1		
(ii)	Skilled workmen / technicians per day	Man/days	1		
(iii)	Un-skilled workmen per day	Man/days	1		
e	Establishment per month	Lot	1		
	Note				
1	The list of nature of work to be performed enclosed.				
	TOTAL				
1	The list of nature of work to be performed enclosed.				
	TOTAL				
	SERVICE TAX (PI specify rate) for service portion				
	GRAND TOTAL				

DISTRIBUTION BOARDS

TENDER NO: BHEL/GSU/ELE/ETC-01

f		Distribution boards			
(i)	1A (BL) DB-1 : 1 Incoming (400A)+ 3 Outgoing (1x350A, 2x32A)				
	Terminals	Nos.	Cable size	No of runs	
	Incoming (1x400A)	1	3.5Cx300sqmm	2	
	Outgoing (1x350A)	1	3.5Cx300sqmm	2	
	Outgoing (2x32A)	2	3.5Cx6sqmm	1	
(ii)	1A (SNM) DB-2 : 1 Incoming (125A)+ 3 Outgoing (1x75A, 2x32A)				
	Terminals	Nos.	Cable size	No of runs	
	Incoming (1x125A)	1	3.5Cx35sqmm	2	
	Outgoing (1x75A)	1	3.5Cx35sqmm	2	
	Outgoing (2x32A)	2	3.5Cx6sqmm	1	
(iii)	1A (CR) DB-3 : 1 Incoming (400A)+ 6 Outgoing 3x50A, 3x32A)				
	Terminals	Nos.	Cable size	No of runs	
	Incoming (1x400A)	1	3.5Cx35sqmm	2	
	Outgoing (3x50A)	3	3.5Cx35sqmm	1	
	Outgoing (3x32A)	3	3.5Cx6sqmm	1	
(iv)	1B (VL) DB-4 : 1 Incoming (320A)+ 6 Outgoing (1x125, 1x75A, 1x50A, 3x25A,)				
	Terminals	Nos.	Cable size	No of runs	
	Incoming (1x320A)	1	3.5Cx185sqmm	2	
	Outgoing (1x125A)	1	3.5Cx185sqmm	2	
	Outgoing (1x75A)	1	3.5Cx185sqmm	1	
	Outgoing (1x50A)	1	3.5Cx35sqmm	1	
	Outgoing (3x25A)	3	3.5Cx6sqmm	1	

DISTRIBUTION BOARDS				
(v)	1B (CMP) DB-5 : 1 Incoming (125A)+ 3 Outgoing (2x50, 1x25A)			
	Terminals	Nos.	Cable size	No of runs
	Incoming (1x125A)	1	3.5Cx185sqmm	1
	Outgoing (2x50A)	2	3.5Cx35sqmm	1
	Outgoing (1x25A)	1	3.5Cx6sqmm	1
(v)	2A (CMP) DB-6 : 1 Incoming (125A)+ 3 Outgoing (1x50, 2x25A)			
	Terminals	Nos.	Cable size	No of runs
	Incoming (1x125A)	1	3.5Cx185sqmm	1
	Outgoing (1x50A)	1	3.5Cx35sqmm	1
	Outgoing (2x25A)	2	3.5Cx6sqmm	1

SCHEME FOR LT CABLE LAYING AS PER DRAWING ATTACHED

TENDER NO: BHEL/CSU/ELE/ETC-01

SL No.			DRAWING SECTION	APPROX. LENGTH (IN METER)	TYPE OF LAYING	REMARKS
1	SECTION:1	3.5C X 300sqmm	AC	80	UNDERGROUND	one road crossing
		3.5C X 185sq mm				
		3.5C X 35sqmm				
2	SECTION:2	3.5C X 300sqmm	CG	100	OVER GROUND	Two cable trays ,One shall be at height of 4.5m from floor level and second 300mm below from first one.
		3.5C X 185sq mm				
		3.5C X 35sqmm				
3	SECTION:3	3.5C X 300sqmm	CD	50	OVER GROUND	Two cable trays ,One shall be at height of 4.5m from floor level and second 300mm below from first one.
		3.5C X 185sq mm				
		3.5C X 35sqmm				
4	SECTION:4	3.5C X 300sqmm	DE	50	OVER GROUND	Two cable trays ,One shall be at height of 4.5m from floor level and second 300mm below from first one. At the entry gate, upper cable tray shall be about 5.5 meter from FFL.
		3.5C X 185sq mm				
		3.5C X 35sqmm				
5	SECTION:5	3.5C X 300sqmm	EF	150	OVER GROUND	One cable tray at height of 4.5m.At the entry gate, upper cable tray shall be about 5.5 meter from FFL.
		3.5C X 185sq mm				
		3.5C X 35sqmm				
6	SECTION:6	3.5C X 185sq mm	DH1	140	UNDERGROUND	one road crossing
		3.5C X 35sqmm				
7	SECTION:7	3.5C X 35sqmm	H1H2	100	UNDERGROUND	
8	SECTION:8	3.5C X 35sqmm	AH4	100	UNDERGROUND	
9	SECTION:9	3.5C X 35sqmm	H2H3	50	UNDERGROUND	one road crossing

The cable size and number of runs are tentative that may vary.

Notations

ADM BUILDING
SECURITY BLD

H1
H2

STORE

H4

MAIN GATE

H3

