

**B.O.Q OF HYDROLICK LIFT INSTALLATION FOR UCO BANK AT ZONAL OFFICE , BUBANESWAR.( GROUND TO 1ST FLOOR )**

SL.NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT
1.0	Design, Supply, Installation, Testing and Commissioning of HYDROLICKS Cum Passenger Elevator /Single Car Control /Stops / openings - 2/2 (G,1 ) / Cabin entrance door opening arrangement - 2 Panel Centre opening power operated sliding doors / Clear cabin entrance size mm(W) x mm(H) - 700 X 2000 / Cabin walls (finish) - Hairline finished stainless steel with Handrail in rear panel / 06 PAX / 408 KG / 1.0 MPS .	Nos	1.00		
	<b>TECHNICAL SPECIFICATION</b>				
1	Quantity				
2	Type of Elevator				
3	Load / Capacity				
4	Speed				
5	Control				
6	Operations				
7	No. of Openings				
8	No. of Stops				
9	Total Rise				
10	Hoist Way (Required)				
11	Machine room height				
12	Car inside				
13	Clear Door Opening				
14	Car Flooring				
15	Landing Entrance				
16	Car Enclosure				
17	Car Entrance				
18	Door Operation				
19	Reduction Gear				
20	Motor				
21	Power Supply (Required)				
22	Position of Machine Room				
23	Wire-Rope				
24	Installation				
25	Up/Down Indicator				
26	Energy Saving Light& Fan				
27	Luminous call Indicator				
28	Digital Car Position				
29	Door open Bell				
30	Alarm Bell				
31	Attendant / Independent				
32	Over Speed protection				
33	Single phase protection				
34	Reverse phase protection				
35	Interlocking Switches				
36	Over Load Protection				
37	Phase Failure Protection				
38	Emergency Stop Switch				
39	Fire Man Switch				
40	VVVF Drive				
41	Auto Rescue Device				
42	Emergency Alarm Bell				
43	Emergency Light				
44	Annunciators				
45	Hand Railing				
46	Back Side Glass				
47	Lift Mirror				
	Oil system 68-150ltr				

SL.NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT
	CIVIL FABRICATION WORK				
1.0	Supply Erection commissioning of G+ 1 Fabrication with required MS sections as per design . It includes two cote of enamel paint over one cote of primer as per instruction. The work should be copleted in all respect to operate the lift include all labour materials scoffolding welding mechine , rod etc .	1 Job	1.00		
	<b>TOTAL</b>				

**B.O.Q OF ELECTRICAL WORK FOR HYDROLIC LIFT INSTALLATION FOR UCO AT ZONAL OFFICE ,  
BHUBANESWAR.**

SL.NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT
	<b>1. ELECTRICAL WIRING WORK</b>				
	<b>1.1 LIGHT &amp; POINT WIRING WORK</b>				
1.0	Concealed / ressed / surface point etc. wiring using 1100V <b>FRLS grade 3R (P+N+E)</b> x 1.5 Sq.mm FRLS multi stranded copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through rigid <b>FR/FRLS</b> PVC conduits of 20mm Dia 1.5 mm thick laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling, with modular type switch plate, switches, GI concealed back box, etc. of legrand mylinc or equivalent make. S.I.T.C.( Supply Installation Testing And Commissioning) as directed by the Engineer-in-charge. (Each circuit shall not feed more than 8 points OR 800 watts as per following configuration.)				
	NOTE:- 1. Only FRLS wire shall be used; 2. The wires from ceiling junction to light points / light fixture shall be drawn in flexible PVC conduit with adptor & cover for junction box & crimp type lugs at both the ends alongwith necessary hardware & accessories, etc. as required; 4. Looping of Neutral / Earth wire between two seperate Primary / Full Points is strictly not allowed; 5. Looping of Neutral / Earth wire between two seperate circuits on similar or other phase is strictly not allowed; 6. Ferulling / numbering / taggning to wires with circuit number & db name for all lighting & raw / ups power shall be strictly followed at both DB & switch board / switch socket boards ends.				
1.1	Primary light/Call bell points including the cost of clip in type 6A Modular switch of legrand mylinc or equivalent make. S.I.T.C. as directed by the Engineer-in-charge. ( I light controlled by one switch UPS point )	<b>Nos.</b>	<b>2.00</b>		
1.2	6 Amp 2/3 pin Modular scoket with 6A Modular switch. ( on common switch Board.)	<b>Nos.</b>	<b>2.00</b>		
	<b>1.2 POWER POINT WIRING WORK</b>				
1.0	Concealed power point using 16/6 Amp 3 Pin plug socket with 16 Amp Modular switch of legrand mylinc or equivalent make mounted on separate board using suitable size galvanized iron junction & switch boxes & clip in type modular type switch plate,etc. Supply taken from R.D.B./ Nearest L.D.B wiring using 1100V FRLS grade 2R (P+N) x 2.5 Sq.mm +1R (E) x 1.5 Sq.mm FRLS multi stranded copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through rigid FR/FRLS PVC conduits of 20mm Dia 1.5 mm thick . The point should not taken from any switch Board. S.I.T.C. as directed by the Engineer-in-charge.	<b>Nos</b>	<b>2.00</b>		

	<b>1.3 CABLE, MAINS &amp; SUBMAINS.</b>				
1.0	Supply of all required materials and wiring to circuits/ submains with following number and sizes of PVC insulated 1100 volt grade multi standard <b>FRLS</b> copper wire run inside rigid <b>FR/FRLS</b> PVC conduits of 20mm Dia 1.5 mm thick of ISI mark as required and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
1.1	Recessed wiring with ( 2Rx6.0 sqmm +1Rx4.0 sqmm ) copper wire ( R.D.B to Points)	<b>Mts</b>	<b>15.00</b>		
2.0	S & I of 1100V grade Copper Unarmoured cable having sector / circular shaped Copper conductor PVC insulated cores, overall extruded PVC sheathed confirming to IS: 1554, laid on wall or ceiling using GI clamps and spacers as per route shown at site and further as directed by Bank / Architect in the following sizes.				
2.1	Surface wiring with (16 sqmm) 4 core armored aluminium cable .	<b>Mts</b>	<b>15.00</b>		
3.0	GLANDING & TERMINATION :- Supply & Installation of end termination of above mentioned cables including compressed type brass glands, crimping type aluminium lugs, insulation tape etc. as required complete with earthing of glands in following sizes :-				
3.1	(16 sqmm) 4 core armored Aluminium cable	<b>Nos</b>	<b>2.00</b>		
	<b>2.PANEL BOARD &amp; DISTRIBUTION BOARDS.</b>				
1.0	Supply and installation of SPN, Double Door, Metal type Distribution Board. (hager IP43, legrand make Ekinox3 model or equivalent make as approved by Engineer-in-charge ), surface / flush mounted on wall, interconnected wiring complete with earthing lugs, including DB wiring, termination of circuits with ring type copper lugs, blank plates, etc. housing following switchgears :				
1.1	<b>R.D.B (Raw power Distribution Board)</b>	<b>Set</b>	<b>1.00</b>		
	8 way SPN DB				
	1 No. 63A 4P MCB ( 1 Main & 1 Spair ) - for Lift				
	2 No. 32A DP MCB ( 1 Main & 1 Spair ) - for Lift				
	All MCB must be 'C' Series				

	<b>3. FITTINGS OF FIXTURES</b>				
	(NOTE : ANY OF FIXTURES AND FITTINGS SHALL BE RE-CONFIRMED WITH THE ARCHITECTS / CONSULTANTS BEFORE ORDERING THEM.				
	Supply , Installation, testing and commissioning of lighting fixtures with lamps and LED driver as per the details below including necessary hardware such as clamps, nuts, bolts, nails, screws and suspension rods as required for fixing the fixtures in position as directed by architect / consultant / client including supply and fixing flexible wires from holder to fixtures hardware etc. Note :- All Light Fixtures, Fans, Exhaust Fans & other fittings samples shall be approved by the Client / Architect / Consultant before placing order to the Light Fixture Vendor / Supplier makes are specified. Client / Architect / Consultant reserves right to approve / select final Light Fixtures from any make as required.				
1.0	Supply, installation and testing of Stud LED lights fittings (10 W) with all accessories complete of Crompton LBHP-10-CDL Equivalent Make as required as per direction of Engineer in charge.	<b>Nos.</b>	<b>2.00</b>		
	<b>4. EARTHING</b>				
1.0	Supplying and fixing of Earthing with copper earth plate of size 600 mm X 600 mm X 3.18 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 3.0 metre long etc. with alternative layer of 150mm thick charcoal/ coke and salt as required.	<b>SET</b>	<b>2.00</b>		
2.0	Supplying and laying earth connection from earth electrode with 40 mm X 3 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	<b>Mts.</b>	<b>3.00</b>		
3.0	Supplying and laying 40 mm X 3 mm copper strip on surface or in recess for loop earthing as required.	<b>Mts.</b>	<b>7.00</b>		
	<b>TOTAL</b>				

**B.O.Q FOR MAINTAINCE WORK FOR LIFT INSTALLATION FOR UCO AT ZONAL OFFICE ,  
BHUBANESWAR.**

SL.NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT
1.0	Out repair and supply of required original spare parts to				
1.1	YEAR-1	Nos.	1.00		
1.2	YEAR-2	Nos.	1.00		
1.3	YEAR-3	Nos.	1.00		
1.4	YEAR-4	Nos.	1.00		
	<b>TOTAL-</b>				

**B.O.Q FOR HYDROLIC LIFT INSTALATION WORK AT UCO BANK ZONAL OFFICE BHUBANESWAR.**

**ABSTRACT FOR LIFT INSTALATION**

SL.NO.	DESCRIPTION OF ITEMS	AMOUNT (Rs)
1.0	<b>LIFT INSTALATION WORK</b>	
2.0	<b>ELECTRICAL , TELEPHONE &amp; DATA CABLEING WORK</b>	
3.0	<b>ANNUAL MAINTAINCE WORK FOR 4 YEAR AFTER EXPIRY OF 1 YEAR WARRENTY PERIOD</b>	
	<b>TOTAL</b>	

***Total amount in words:-***