

B.O.Q OF LIFT INSTALLATION FOR UCO BANK AT ZONAL OFFICE , BUBANESWAR.(FRONT LOBBY LIFT)

SL.NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT
1.0	Design, Supply, Installation, Testing and Commissioning of DeLITE /MACHINE ROOM ELEVATOR /Single Car Control /Stops / openings - 6/6 (B,G,1,2,3,4) / 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 .				
	TECHNICAL SPECIFICATION				
	USAGE OF ELEVATOR	Passenger Elevator			
	Capacity	408 kgs (06 PAX)			
	Speed (Mtrs/sec)	1			
	Control & type of machine	AC- variablevoltagevariablefr equencywith datanetworkingsvsystem	Nos.	1.00	
	Operation	Single Car Control			
	Stops / openings	5/5 (1,2,3,4,5)			
	Clear hoistway size per elevator mm(W) X mm(D) (approx.)	2000X1800			
	Hoistway wall material	BRICK			
	Hoistway wall thickness	250mm			
	Clear cabin internal size mm(W) X mm(D) (approx.)	1100X1300X2100			
	Cabin entrance door opening arrangement	2Panel Centre opening power operated sliding doors			
	Clear cabin entrance size mm(W) x mm(H)	800X2000			
	Travel (M) approx.	6.2MA pprox			
	Elevator cabin ceiling type	B600SDesign (LEDSPOTdownLight)			
	Cabin walls (finish)	Stainlesssteel Hairline linen finished with Handrail in rear panel (rearpanel have mirror glass)			
	Flooring	25mm Recess-Granite			
	Cabin doors (finish)	Hairlinefinishedstainless teel without visionpanel			
	Entrance door (finish)	Hairline finished stainlesssteel without visionpanel-Firerated			
	Cabin sills and landing sills	Extruded Hard Aluminum			
	Car operating panel and car position indicator faceplate finish	Hairlinefinishedstainless teel			
	Hall indicator face plates finish	Plasticcasewithstainlessst eelfaceplate			
	Entrance jamb type and finish	NarrowtypeandLinternty peHairline finishedstainlesssteelE- 102-S			

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	Hall indicator type at ground & Other floor	PIV1-A1010N[LEDwithSegmentDisplay]				
	Hall indicator type at Top floors	PIV1-A1010N[LEDwithSegmentDisplay]				
	Car operating panel type(Main)	CBV1-S760[LEDDisplay]				
	Buffers for cabin and counter weights	Spring/Hydraulic				
	Safety system	Gradual				
	Guides for cabin	Machined steel "T" sections				
	Guides for counterweights	Formed steel "T" sections				
	Guide shoes	Advanced sliding type				
	Power supply for traction	415V, 3 phase 50 HZ with voltage variation of +5% to -10%				
	Power supply for cabin lighting	220V, 1 phase 50 HZ with voltage variation of +5% to -10%				
	Operational features					
	1. Emergency Alarm bell	To be Provided				
	2. Safe landing operation	To be Provided				
	3. Next landing operation	To be Provided				
	4. Overload holding stop	To be Provided				
	5. Fire-fighter emergency operation	To be Provided				
	6. Emergency cabin lighting	To be Provided				
	7. Emergency interphone system incorporated on cabin operating panel	To be Provided				
	8. Re-open with hall call button operation	To be Provided				
	9. Automatic door speed control	To be Provided				
	10. AC-VVVF inverter controlled door	To be Provided				
	11. Car & Hall call registered light	To be Provided				
	12. Mitsubishi Emergency landing	To be Provided				
	13. Door sensor self diagnosis	To be Provided				
	14. Repeated Door-close	To be Provided				
	15. Door nudging feature-With Buz	To be Provided				
	16. Door Load Detector	To be Provided				
	17. Car call cancelling	To be Provided				
	18. False Call cancelling	To be Provided				
	19. Emergency stop with Switch	To be Provided				
	20. Car Light and Fan auto off	To be Provided				
	21. Voice Guidance System	To be Provided				
	22. Multi beam sensor	To be Provided				
2.0	Dismantling and removing of existing lift in all respect as per requirement and as per direction of Engineer in charge including all labour, tools, equipment etc.		JOB	1.00		
	TOTAL					
	Salvage Value of Old Lift items (The items replaced for installation of new lift) (Buy Back amount -1,00,000/-)		L.S			
	G.TOTAL					

**B.O.Q OF ELECTRICAL WORK FOR LIFT INSTALLATION FOR UCO AT ZONAL OFFICE ,
BHUBANESWAR. (FRONT LOBBY LIFT)**

SL.NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT
	1. ELECTRICAL WIRING WORK				
	1.1 LIGHT & POINT WIRING WORK				
1.0	Concealed / ressed / surface point etc. wiring using 1100V FRLS grade 3R (P+N+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 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 separete Primary / Full Points is strictly not allowed; 5. Looping of Neutral / Earth wire between two separete 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. (1 light controlled by one switch UPS point)	Nos.	6.00		
	TOTAL FOR LIGHT & POINT WIRING WORK			Rs.	
	1.2 POWER POINT WIRING WORK				
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.	Nos	6.00		
	TOTAL FOR POWER POINT WIRING WORK			Rs.	

	1.3 CABLE, MAINS & SUBMAINS.				
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 FRLS copper wire run inside rigid FR/FRLS 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)	Mts	60.00		
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 . (From main Panel to master AC Contoller/ master AC Contoller to Main Panel / Generator to Main panel)	Mts	40.00		
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	Nos	2.00		
	TOTAL FOR CABLE, MAINS & SUBMAINS.			Rs.	
	2.PANEL BOARD & DISTRIBUTION BOARDS.				
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 ping type copper lugs, blank plates, etc. housing following switchgears :				
1.1	R.D.B (Raw power Distribution Board)	Set	1.00		
	12 way SPN DB				
	2 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				
	TOTAL FOR PANEL BOARD & DISTRIBUTION BOARDS.			Rs.	

	3. FITTINGS OF FIXTURES				
	(NOTE : ANY OF FIXTURES AND FITINGS 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 hardwares 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.	Nos.	6.00		
	TOTAL FOR FITTINGS OF FIXTURES			Rs.	
	4. EARTHING				
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.	SET	2.00		
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.	Mts.	6.00		
3.0	Supplying and laying 40 mm X 3 mm copper strip on surface or in recess for loop earthing as required.	Mts.	30.00		
	TOTAL EARTHING			Rs.	

	LIFT INSTALLATION WORK	Rs.	
	ELECTRICAL WORK FOR LIFT INSTALLATION	Rs.	
	TOTAL	Rs.	
	Total amount in words-		