. 1					
S.No.	Description.	Unit.	Quantity Rate in Figures (in Rs.)	Rate in Words	Amount in Figures ( Rs.)
a)	INCOMER:				(
	1 No. MCCB Panels each having following		<b>+</b>		<b>↓</b>
	200 Amp .35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection and		<b>\\</b>		<b> </b>
	E/ F Module.				
	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication (LED type).		+		<u>+</u>
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should		<u>∔</u>		<b> </b>
1	have spreader links & phase barriers.				
	1 No. 0 to 500 V Digital voltmeter with selector switch.				
	Digital ammeter with selector switch with one set Suitable C.Ts.		ļ		
b)	BUSBARS:		<b></b>		<b> </b>
	400 Amp TPN Aluminium busbars				
	OUTGOING:		<u> </u>		
	1 Nos. MCCB as per following details/ specifications:		<u>+</u>		<b>+</b>
1					
	200 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection release.				
	Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be				
i	with spreader link and phase barriers.		<u> </u>		ļ
	ON, OFF, TRIP indication (LED Type).		<u> </u>		<u> </u>
1	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.		<u> </u>		
1	2 Nos. MCCB as per following details/ specifications:				1
	100 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection		1 1		1
	release. Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be		<b>+</b>		<b>\</b>
	with spreader link and phase barriers.				
	ON, OFF, TRIP indication (LED Type).		Tİ		1
	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.				1
	UPS INPUT PANEL as mentioned above	Set	1		1
	UPS OUTGOING Panel (ICU, PRE & POST OT- 30 KVA)				1
a)	INCOMER:		<u> </u>		1
i)	2 No. MCCB Panels each having following		1		
	100 Amp ,35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection and		tt		<u> </u>
	E/ F Module.		ļ		ļ
	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication (LED type).				
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.		†		1
	have spreader links & phase barriers. 1 No. 0 to 500 V Digital volumeter with selector switch.		<u> </u>		
	Digital ammeter with selector switch with one set Suitable C.Ts.		<u> </u>		<u> </u>
			<u>++</u>		<u>+</u>
b)	BUSBARS:		÷		<u>+</u>
	300 Amp TPN Aluminium busbars		<u> </u>		<u> </u>
	]]		l l		İ
1	OUTGOING:				
i	1 Nos. MCCB as per following details/ specifications:		T		1
	200 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection		tt		1
	release.				
	Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be		1		1
	with spreader link and phase barriers.		<u>                                      </u>		<u> </u>
	ON, OFF, TRIP indication (LED Type).				
1	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.		<u>                                      </u>		I
	UPS OUTGOING Panel as mentioned above	Set	1		ļ
5.30	ICU, Pre & Post OT Panel (30 KVA)		·····		
	ICU, Pre & Post OT Panel (30 KVA) INCOMER:		<u> </u>		<b>¦</b>
	2 No. MCCB Panels each having following		<u>+</u>		<u> </u>
	200 Amp 415 volts, 35 KA, Motorised, FP MCCB with microprocessor based release having variable current settings of OL SUG is insulii Efficiencies asheets		<b>+</b>		
	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication (LED type).		T		1
	Friended retery operating mechanism with door interlaction with defeat features and well-add feedbar. MPPOR -114		<u> </u>		<u> </u>
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.				
	1 No. 0 to 500 V Digital voltmeter with selector switch.		1		
	Digital ammeter with selector switch with one set Suitable C.Ts.		[]		
b)	BUSBARS:		<u>                                      </u>		
	400 Amp TPN Aluminium busbars		<u> </u>		ļ
6	OUTGOING:		<u> </u>		<u> </u>
					1
	8 no. 63 Amps, 415 volts, 9 KA, Four Pole, Miniature Circuit Breaker.				1

No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.       No.     No	·7			· · · · · · · · · · · · · · · · · · ·		 	·····	·
Note         Note <th< th=""><th>S.No.</th><th>Description.</th><th>Unit.</th><th>Quantity Rate in Figures</th><th>(in Rs.)</th><th>Rate in Words</th><th></th><th>Amount in Figures ( Rs.)</th></th<>	S.No.	Description.	Unit.	Quantity Rate in Figures	(in Rs.)	Rate in Words		Amount in Figures ( Rs.)
Second     Second <td></td> <td>ICU, PRE &amp; POST OTPanel as mentioned above</td> <td>Set</td> <td>1</td> <td></td> <td> </td> <td></td> <td></td>		ICU, PRE & POST OTPanel as mentioned above	Set	1		 		
No.     No.     No.     No.       10     No.     No.     No.       11     No.     No.     No.       12     No.     No.     No.       13     No.     No.     No.       14     No.     No.     No.       15     No.     No.     No.       16     No.     No.     No.       17     No.     No.     No.       18     No.     No.     No.       19     No.     No.     No.       10     No.     No.								
Image: Proceedings of the second s		CHAMBA _ NEW OPD						
Image: Proceedings of the second s	5.31	MAIN MV PANEL Emergency						
Image: State								
Image: An of the standard of the standa								
Image: Source		400 Amp 415 volts, 35 KA FP MCCB with microprocessor based release having variable current settings of O/L, S/C & inbuilt E/F protection release.						
Image: Province of the state					 			
Image: Province of the state	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should				 			
Image: Section of Addition of Addit Ch.     Image: Section of Addition of Ad		have spreader links & phase barriers.				 		
Image: Source		1 No. 0 to 500 V Digital voltmeter with selector switch.				 		
Image: Second						 		
Image: Problem       Image								
Image: Proceedings of the section of the sectin of the section of the section o		630 Amp TPN Aluminium busbars				 		
Image Number of State Sta	+	e) OUTGOING:				 		
Image Number of State Sta	+	i) 2 Nos. MCCB as per following details/ specifications:				 		
Image: Section of an end of a control of a cont	+	100 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection				 		
Image: Source with the state of th	<b> </b>	release. Extended rotary operating mechanism with door interlook with defeet feature and andhold feature MCCO door to be				 		
Image: Section of the section of t		extension rotary operating mechanism with door interfock with deteat reature and patilock facility. MCCB should be with spreader link and phase barriers.				 	<u> </u>	
1     4     Model and publication of the set of the s						 		
Note of the Web AND websahes and w	1	i i						
Note of the spectra protect protect where we base we ba		i) 8 Nos. MCCB as per following details/ specifications:				 		
Note of the spectra protect protect where we base we ba		63 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection						
In wire show that is due weekset.         In wire show that is due weekset.<		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be				 		
Image: Province of the structure of the		with spreader link and phase barriers.				 		
Image: Note of the State						 		
No. No. Langung Grand Mar Rama matrix data     No.     1       L. S.     No. No. Langung Grand Mar Rama matrix data     No.     No.       L. S.     No. No. C. ange Manga Marka Mark Mathematican     No.     No.       No. No. C. ange Marka Mark Mark Mark Mark Mark Mark Mar						 		
1         VPANL Engang Yes, Yood, Yang Yes, Yo						 		
a     b     Works     b     b     B		MV PANEL Emergency (Ground Floor Plan)as mentioned above	Set	1		 		
1         1         Nuk XCC and or share sh	5.32	MV PANEL Emergency (First , Second , Third , Fourth , Fifith Plan)				 		
Image: Application of Star PF MCR1 with Annual sugger chains using with Care and applic these using with Care and applicthese using with Care and applic these using wi	+	a) INCOMER:				 		
instrumentary         instrume		i) 1 Nos. MCCB as per following details/ specifications:				 		
NAMe draw instance large work if A work of A & A CU, CP, THP Indexine LED upp.       Image: State and the state of A & A & CU, CP, THP Indexine LED upp.         Image: A more state and the state of A & A & CU, CP, THP Indexine LED upp.       Image: A & A & A & A & A & A & A & A & A & A		63 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C				 		
- 1						 		
Image speak ranks dipele barrow         Image speak ra								
-         -		Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.						
b       HSRAWS       HSRAWS       HSRAWS         01 Ang TSN Assessme belays       HSRAWS       HSRAWS       HSRAWS         01 D       MCRONC:       HSRAWS       HSRAWS       HSRAWS         01 D       MCRONC:       HSRAWS       HSRAWS       HSRAWS       HSRAWS         01 D       MCRONC:       HSRAWS       HSRAWS       HSRAWS       HSRAWS         01 D       MCRONC:       HSRAWS		1 No. 0 to 500 V Digital voltmeter with selector switch.				 		
00  Aug UPX Auxiliant backage $00  Aug$ UPX Auxiliant backage $00  Aug$ UPX Auxiliant backage $00  OUTCONNG:$ $00  Aug$ Auxiliant backage		Digital ammeter with selector switch with one set Suitable C.Ts.				 		
-       OUTCONG:       -<		b) BUSBARS:				 		
ii)       8x. 00 Ange, 415 vols, VRA, Four Pole, Minitater Ceculi Breaker.       iii)       iii)       iiii)       8x. 00 Ange, 415 vols, VRA, Four Pole, Minitater Ceculi Breaker.       iiii)       iiii)       iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	+	300 Amp TPN Aluminium busbars						
NV PANEL Energeny (First, Scool, Third, Fourth, Filth Plan) as method above     Not     Not     Not       Sct     S     S     S     S       Sta     NV PANEL NORMAL (Ground, First, Scool), Third, Fourth, Filth Plan) as method above     Not       Sta     NV PANEL NORMAL (Ground, First, Scool), Third, Fourth, Filth Plan)     Not       Sta     NV PANEL NORMAL (Ground, First, Scool), Third, Fourth, Filth Plan)     Not       Sta     NV PANEL NORMAL (Ground, First, Scool), Third, Fourth, Filth Plan)     Not       Sta     NV PANEL NORMAL (Ground, First, Scool), Third, Fourth, Filth Plan)     Not       Sta     NV PANEL NORMAL (Ground, First, Scool), Third, Fourth, Filth Plan)     Not       Sta     Not NCCE Prace cosh basing following     Not       Sta     S Not NCCE Prace cosh basing following     Not       Sta     Not NCCE Prace cosh basing following     Not       Sta     Not NCCE Prace cosh basing following     Not       Sta     Not NCCE Prace cosh basing following     Not       Sta     Not NCCE Prace cosh basing following     Not       Sta     Not NCCE Prace Cosh basing following     Not       Sta     Not Not Prace Cosh basing following     Not Not Prace Cosh basing following       Not Not Prace Cosh basing following     Not Not Prace Cosh basing following     Not Not Prace Cosh basing following       Not N						 		
Image: Set of	+	<li>8 no. 40 Amps, 415 volts, 9 KA, Four Pole, Miniature Circuit Breaker.</li>						
Image: Substrate in the sector with the sector	+	MV PANEL Emergency (First, Second, Third, Fourth, Fifith Plan) as mentioned above				 		
a)       NCOMER:       a)       Apple 41 subs, 52 KA FM and a subset of a subset	+		Set	5		 		
a)       NCOMER:       a)       Apple 41 subs, 52 KA FM and a subset of a subset								
i)       No. MCCB Panels each having following.       Image: second panels of the second panel panels of the second panels of the second panel panels of the second panels of the second panel panels of the second panel panels of the second panel panels of the second panel panels of the second panel panels of the second panel panels of the second panels of the second panels of the second panel panels of the second panel panels of the second panels of the second panels of the second panels of the second panels of the second panels of the second panels of the second panels of the second panels of the second panels of the second panels of the second	5.33	MV PANEL NORMAL (Ground , First , Second , Third , Fourth , Fifith Floor Plan)						
200 Amp 415 volk, 35 KA FP MCCB with themal magnetic relase having variable current settings of OL, SC protection and 2F Module.						 		
Improvement       Improvement	+							
KY&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TKP Indication (LED type).     Image: Spread rotation of the sector with door interlocking with door interlo	1	200 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection and E/F Module.				 		
Letradd rotary operating mechanism with door interlocking with dofer future and pathock facility. MCCB should have spreader links & phase berriss.	+					 		
base spreader hisk & place brains         base         base         preader hisk & place brains         base         base         preader hisk & place brains         place brains         place brains         place	<b> </b>					 		
Digital animator with welcome of Suitable C.T.s.         Image: Comparison of Comp		have spreader links & phase barriers.						
b         BUSBARS:         Image: Constraint of the second								
		Ligna animeter with selector switch with one set Suitable C.Ts.				 		
All Amp TPN Aluminian bushas	+					 		
	[‡	630 Amp TPN Aluminium busbars						
	L	]		LL	L	 	<u> </u>	

S.No.	Description.	Unit.	Quantity Rate in Figures (in Rs.)	Rate in Words	Amount in Figures
		Unit.	Quantity Rate in Figures (in Rs.)	Rate in Words	(Rs.)
c)	OUTGOING:				
	8 no. 63 Amps, 415 volts, 9 KA, Four Pole, Miniature Circuit Breaker.		+		<u>+</u>
	MV PANEL NORMAL (Ground , First , Second , Third , Fourth , Fifith Floor Plan)as mentioned above				<u>+</u>
		Set	6		
5.34	LIFT Panel (OPD Block) INCOMER:				
a) D	1 Nos. MCCB as per following details/ specifications:		·		<u> </u>
	100 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C				
	100 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection and E/ F Module.				
	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication.				
					<u> </u>
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.				
	1 No. 0 to 500 V Digital voltmeter with selector switch.				
	Digital ammeter with selector switch with one set Suitable C.Ts.		†		†
					<u>+</u>
b)	BUSBARS: 300 Amp TPN Aluminium busbars				
			†		<u>+</u>
	OUTGOING:				
i)	4 Nos. MCCB as per following details/ specifications:		1		+
	63 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection		++		
	release.				 
	Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers.				
	ON, OFF, TRIP indication (LED Type).		<u> </u>		<u> </u>
	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.		<u> </u>		 
	Lift Panel Hospital (Ground Floor) as mentioned above				<u> </u>
	Later and rospital (cround Floor) as mentioned above	Set	1		<u> </u>
5.35	Computer Panel Section -1 (Ground Floor)				
	INCOMER:		1		<u> </u>
i)	1 Nos. MCCB as per following details/ specifications:		1 1		1
	160 Amp 415 volts, ,35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C		<u> </u>		<u> </u>
	protection and E/ F Module.		<u> </u>		
	R.Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication.				
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should		+		
	have spreader links & phase barriers. 1 No. 0 to 500 V Digital voltmeter with selector switch.		<u> </u>		
			<u> </u>		
	Digital ammeter with selector switch with one set Suitable C.Ts.				
b)	BUSBARS:		÷		<u> </u>
	300 Amp TPN Aluminium busbars				
c)	OUTGOING:		<u> </u>		<u> </u>
	10 Nos. MCCB as per following details/ specifications:		<b>↓↓</b>		ļ
			<u> </u>		
	63 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection release.				
	Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers.		++		
	with spreader link and phase barriers. ON, OFF, TRIP indication (LED Type).		<u> </u>		<u> </u>
			<u> </u>		<u> </u>
	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.				
	4 no. 40 Amps, 250 volts, 9 KA, Double Pole Miniature Circuit Breaker.				
	Main Computer Panel (Ground Floor) as mentioned above	Set	1		
			I		
5.36	Sub Computer Panel (First ,Second ,Third ,Fourth Fifth , Sixth & Seventh Floor)				
a)	INCOMER:		İİ		İ
i)	1 Nos. MCCB as per following details/ specifications:		<u>++</u> +		
	63 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C		<u> </u>		<u> </u>
	protection and E/ F Module.				
T	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication (LED type).		1 1		
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should		<u>+</u>		 
	have spreader links & phase barriers.		L		ļ
	1 No. 0 to 500 V Digital voltmeter with selector switch.				
	Digital ammeter with selector switch with one set Suitable C.Ts.				
	BUSBARS:				<u> </u>
b)	BUSBARS: 300 Amp TPN Aluminium busbars				 
	OUTGOING:				
			· · · · · · · · · · · · · · · · · · ·		

S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	Amount in Figures
	fi) 6 no. 40 Amps, 250 volts, 9 KA, Double Pole Miniature Circuit Breaker.					( Rs.)
			ļ			 
	Sub Computer Panel (First ,Second ,Third ,Fourth Fifth , Sixth & Seventh Floor) as mentioned above	Set	12			
	Rennovation Existing OPD CHAMBA					
5.37	MAIN MV Panel Emergency (Fourth Floor)					
	a) INCOMER:					
	i) 1 Nos. MCCB as per following details/ specifications:					
	125 Amp 415 volts, .35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection and E/ F Module.					
	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication.					
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should					
	have spreader links & phase barriers. 1 No. 0 to 500 V Digital voltmeter with selector switch.		+			
	Digital ammeter with selector switch with one set Suitable C.Ts.		+			
			1			
	b) BUSBARS: 300 Amp TPN Aluminium busbars					
	c) OUTGOING:					
	i) 4 Nos. MCCB as per following details/ specifications:		<u> </u>			
	63 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection		+			
	release. Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be		<u> </u>			
	with spreader link and phase barriers.					
	ON, OFF, TRIP indication (LED Type).					
	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.					
	6 no. 40 Amps, 415 volts, 9 KA, Four Pole, Miniature Circuit Breaker.     Main MV Panel Emergency (Fourth Floor) as mentioned above		+			
	and the function of the function of the second states of the second stat	Set	1			
5.38	MV FIFTH FLOOR- Emergency		+			
	a) INCOMER:		+			
	i) 1 Nos. MCCB as per following details/ specifications:					
	63 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection and E/ F Module.					
	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication (LED type).		+			
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should					
	have spreader links & phase barriers. 1 No. 0 to 500 V Digital voltmeter with selector switch.		ļ			   
	Digital ammeter with selector switch with one set Suitable C.Ts.					
	b) BUSBARS:					
	b) BUSBARS: 300 Amp TPN Aluminium busbars					
	c) OUTGOING:					
	ii) 6 no. 40 Amps, 415 volts, 9 KA, Four Pole, Miniature Circuit Breaker.					
	MV FIFTH FLOOR- Emergency as mentioned above		+			
		Set	1			
5.39	MAIN MV Panel Normal (Fourth Floor ) a) INCOMER:		+			
	i) 1 No. MCCB Panels each having following		†			
	320 Amp 415 volts, 35 KA FP MCCB with microprocessor based release having variable current settings of O/L, S/C & inbuilt E/F protection release.		1			
	& mount Dr protection release. R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication (LED type).		+			
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should		ļ			
	have spreader links & phase barriers.		ļ			
	1 No. 0 to 500 V Digital voltmeter with selector switch. Digital annueter with selector switch with one set Suitable C.Ts.		+			
			1			
	b) BUSBARS: 630 Amp TPN Aluminium busbars		<u> </u>			
			1			
	c) OUTGOING:					
	i) 1 Nos. MCCB as per following details/ specifications:		ļ]			
	160 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection release.					
	Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers.					
	ON, OFF, TRIP indication (LED Type).		+			
	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.		+			 
	<u> </u>		÷			L

No.         No.         No.         No.         No.         No.         No.           12         A         Percences         A         Percences	(T			T7	r		11
1     0     0     0     0     0     0       2     0     0     0     0     0     0     0       2     0     0     0     0     0     0     0     0       2     0     0     0     0     0     0     0     0       2     0     0     0     0     0     0     0     0       2     0     0     0     0     0     0     0     0       2     0     0     0     0     0     0     0     0       3     0     0     0     0     0     0     0     0       3     0     0     0     0     0     0     0     0       4     0     0     0     0     0     0     0     0       5     0     0     0     0     0     0     0     0       6     0     0     0     0     0     0     0     0       7     0     0     0     0     0     0     0     0       7     0     0     0     0     0     0     0 </th <th>S.No.</th> <th>Description.</th> <th>Unit.</th> <th>Quantity</th> <th>Rate in Figures (in Rs.)</th> <th>Rate in Words</th> <th>Amount in Figures ( Rs.)</th>	S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	Amount in Figures ( Rs.)
Image: Second And Analysis and Analysis	+	i) 18 no. 63 Annes, 415 volts, 9 KA, Four Pole, Miniature Circuit Breaker.					
12       Solution       1			Set	1			
Image: State in the state i				İ			
Image: Provide and any analysis of a provide any and any any any any any any any any any any	5.40	MV Panel (Fifth Floor)					
Image: Provide and any analysis of a provide any and any any any any any any any any any any	+	a) INCOMER:		++			
Note of the start of				+			<u>†</u>
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1     Normality <th> <b> </b></th> <th></th> <th>Set</th> <th>1</th> <th></th> <th></th> <th><u> </u> </th>	<b> </b>		Set	1			<u> </u>
k1     Nsx. MCCB as per following details' specification:     and a following details' specification:     and a following details' specification:       k3     Avgr. 415 vols. 35 KA FP MCCB with hermal magnetic elses having variable currori setting of OL, SC control SP MG & CN, OFF, TEP Indication (LEP type)     and a following details' specification:       k4     K4 KB phase indicating hamp (LED type) vals 6A control SP MG & CN, OFF, TEP Indication (LEP type)     and a following details' specification:       b1     Next Model career operating enclusions with dori attrabule; and patcles ficatify, MCCB sheath     and a following details' specification:       b1     Next Model career operating interchanism biology:     and a following details' specification:     and a following details' specification:       b1     Next Model career operating interchanism with dori attrabule; and patcles ficatify, MCCB sheath     and a following details' specification:     and a following details' specification:       b1     Next Model career operating interchanism with dori attrabule; and patcles ficatify, MCCB sheath     and a following details' specification:     and a following details' specification:       b1     Nov, Dis SSO VD Specification:     and a following details' specification:     and a following details' specification:     and a following details' specification:       b2     Nov Dis SSO VD Specification:     and a following details' specification:     and a following details' specification:     and a following details' specification:       b2     Nov Dis SSO Angr. TP	5.42	MV FIFTH FLOOR- Emergency (SIXTH FLOOR - Part B)		11			11
k1     Nsx. MCCB as per following details' specification:     and a following details' specification:     and a following details' specification:       k3     Avgr. 415 vols. 35 KA FP MCCB with hermal magnetic elses having variable currori setting of OL, SC control SP MG & CN, OFF, TEP Indication (LEP type)     and a following details' specification:       k4     K4 KB phase indicating hamp (LED type) vals 6A control SP MG & CN, OFF, TEP Indication (LEP type)     and a following details' specification:       b1     Next Model career operating enclusions with dori attrabule; and patcles ficatify, MCCB sheath     and a following details' specification:       b1     Next Model career operating interchanism biology:     and a following details' specification:     and a following details' specification:       b1     Next Model career operating interchanism with dori attrabule; and patcles ficatify, MCCB sheath     and a following details' specification:     and a following details' specification:       b1     Next Model career operating interchanism with dori attrabule; and patcles ficatify, MCCB sheath     and a following details' specification:     and a following details' specification:       b1     Nov, Dis SSO VD Specification:     and a following details' specification:     and a following details' specification:     and a following details' specification:       b2     Nov Dis SSO VD Specification:     and a following details' specification:     and a following details' specification:     and a following details' specification:       b2     Nov Dis SSO Angr. TP	<del> </del>	a) INCOMER:		++			
A Amp 415 volk. 35 KA FP MCCB with thermal magnetic relase having variable current settings of OL, SC processing interchains might (2D type) with 6A control 5P MCh & CN, OFF, TRP Indication (L2D type).       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).         R X-Kb plase indication processing mechanism with does interfecking with defat former and parket, facility. MCCB shoalt have spreader fills & phase buries:       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).         ID 10: 05: 030 / Digital with defat former and parket, facility. MCCB shoalt have spreader fills & phase buries:       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).         ID 10: 05: 030 / Digital with defat former and parket, facility. MCCB shoalt have spreader fills & phase buries:       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).         ID 10: 05: 030 / Digital with defat former and parket, facility. MCCB shoalt have spreader fills & phase buries:       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).         ID 10: 05: 000 / Digital with defat former and parket.       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).       Image: Control of P Mch & CN, OFF, TRP Indication (L2D type).         ID 10: 00: 00: 00: 00: 00: 00: 00: 00: 00:		1					<u> </u>
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Base grouter inds & plase barries.       Image: Constraint of the schere welch.       Image: Constraint of the schere welch.         Pipital annexer with welcher welch with one set Skithek C.Tx.       Image: Constraint of the schere welch.       Image: Constraint of the schere welch.         Image: Discretized annexer with welcher welch with one set Skithek C.Tx.       Image: Constraint of the schere welch.       Image: Constraint of the schere welch.         Image: Discretized annexer with welcher welch with one set Skithek C.Tx.       Image: Constraint of the schere welch.       Image: Constraint of the schere welch.         Image: Discretized annexer welch with one set Skithek C.Tx.       Image: Constraint of the schere welch.       Image: Constraint of the schere welch.         Image: Discretized annexer welch with one set Skithek C.Tx.       Image: Constraint of the schere welch.       Image: Constraint of the schere welch.         Image: Discretized annexer welch with one set Skithek C.Tx.       Image: Constraint of the schere welch.       Image: Constraint of the schere welch.         Image: Discretized annexer.       Image: Constraint of the schere.       Image: Constraint of the schere.       Image: Constraint of the schere.         Image: Discretized annexer.       Image: Discretized annexer.       Image: Discretized annexer.       Image: Discretized annexer.         Image: Discretized annexer.       Image: Discretized annexer.       Image: Discretized annexer.       Image: Discretized annexer.       Image: Discretized annexer. </th <th>[†</th> <th>R,Y&amp;B phase indicating lamp (LED type) with 6A control SP MCB &amp; ON, OFF, TRIP Indication (LED type).</th> <th></th> <th>İ</th> <th></th> <th></th> <th></th>	[†	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication (LED type).		İ			
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All NURLARS:       Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance         Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance         Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance         Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance         Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance         Image: Sol Amp TPA Aluminan balance       Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance         Image: Sol Amp TPA Aluminan balance       Sol Amp TPA Aluminan balance       Image: Sol Amp TPA Aluminan balance         Image: Sol Amp TPA Aluminan (SIXTH FLOOK - Part B) as mentioned above       Sol Amp Tea Aluminan (SIXTH Floor)       Image: Sol Alum Tea Aluminan (SIXTH Floor)         Image: Sol Amp Tea Aluminan (SIXTH Floor)       Image: Sol Alum Tea Aluminan (SIXTH Floor)       Image: Sol Alum Tea Aluminan (SIXTH Floor)       Image: Sol Alum Tea Alum Tea Alum Tea Alum Tea Aluminan (SIXTH Floor)         Image: Sol Alum Tea Alum Te	<u>├</u> Ҭ	1 No. 0 to 500 V Digital voltmeter with selector switch. Dieital ammeter with selector switch with one set Suitable C To		+			
- 30 Augu TPN Aluminam buckars.	┣∔	- goin monthly consistent with the the statement C. 2.5.		+			
i       30 Auge TPN Aluminian backar.       i <t< th=""><th></th><th>b) BUSBARS:</th><th></th><th><u> </u></th><th></th><th></th><th>t</th></t<>		b) BUSBARS:		<u> </u>			t
b)     8 no. 40 Annye, 415 volk, 9 KA, Four Fold, Miniture Circuit Breaker.       c)     MY FIFTH FLOOK - Emergency (SIXTH FLOOK - Part B) as mentioned above       5.40     MAIN MV Panel Normal (SIXTH Floor)       a)     INCOMER:	<b> </b>	300 Amp TPN Aluminium busbars		<u>+</u>			
i)     8 no. 40 Amps, 415 volts, 9 KA, Four Pole, Minitatre Circuit Breaker.       ii)     MV FIFTH FLOOR - Emergency (SIXTH FLOOR - Part B) as mentioned above       5.41       5.43       ii)       iii)       iii)	<del> </del>	c) OUTGOING:		+			<u>+</u>
AW FIFTH FLOOR-Emergency (SIXTH FLOOR - Part B) as mentioned above     Sci     1       5.43     MAIN MV Panel Normal (SIXTH FLOOR - Part B) as mentioned above     Sci     1       6.1     Income: Comparison of the second of	1 1			<u>+</u>			<u> </u>
5.43         MAIN MV Paul Normal (SIXTH Floor)         54         1           a) INCOMER:         0         0         0							<u> </u>
5.43         MAIN MV Paul Normal (SIXTH Floor )           a)         INCOMER:		MV FIFTH FLOOR- Emergency (SIXTH FLOOR - Part B) as mentioned above	Set	1			
a) NCOMER:	5,43	MAIN MV Panel Normal ( SIXTH Floor )					<u>+</u>
i) 1 No. MCCB Panels each having following				+			<u> </u>
	<del> </del>	i) 1 No. MCCB Panels each having following		+			<u>+</u>
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No.     No.     No.     No.     No.     No.     No.       No.     Second Se	·			·····				
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Image: Proceedings of the second s		400 Annu 415 vote 25 KA ED MCCP with missonergenerge based sphere busine unsights support entries of O.J. SIC						( RS.)
Image: Solution of a sectio		400 Amp 415 voits, 55 KA PP MCCB with microprocessor based release naving variable current settings of O/L, S/C & inbuilt E/F protection release.						
Image: Province of section of sectin of section of section of section of section of section o		R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication (LED type).						
Image: Province of section of sectin of section of section of section of section of section o	<del> </del>	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should						
Vertice         Vertice <t< td=""><td></td><td>have spreader links &amp; phase barriers.</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		have spreader links & phase barriers.						
Note     Note								
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Vol     Vol <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Vec         Vec <td>c)</td> <td>OUTGOING:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	c)	OUTGOING:						
Image: Proceedings of the second and second	i)	1 Nos. MCCB as per following details/ specifications:						
Image: Proceedings of the second and second		160 Amp 35 KA TP+NL MCCB with thermal magnetic release having variable current settings of O/L, S/C protection						
Note:         Note:<		release.						
Note:         Note:<		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers.						
1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1 <td></td> <td>ON, OFF, TRIP indication (LED Type).</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		ON, OFF, TRIP indication (LED Type).						
1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1 <td>·</td> <td>Dieital Ampere Metre of suitable range with suitable set of CT's and ASS</td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td>	·	Dieital Ampere Metre of suitable range with suitable set of CT's and ASS		+				
Note of Notice Network (Note of Note of				<mark></mark>				
Add     Additional Addite Additional Additional Additional Add			Sot	1				
Note         Note <th< td=""><td><u> </u></td><td></td><td>unit</td><td><u> </u></td><td></td><td></td><td></td><td></td></th<>	<u> </u>		unit	<u> </u>				
Note:     Note:	5.44	MV Panel (Fifth Floor) Part B						
Note:     Note:	aì	INCOMER:		<u> </u>				
Image: Section of the sectin of the section of the section				+				
Normal Prime     N				<b>+</b>				
Image: Section of an instruction of an inst		protection and E/ F Module.						
Image: Proceeding of the stand of the st		R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication.						
Image: Proceeding of the stand of the st	<b> </b>			ļ				
Image: Province state sta		have spreader links & phase barriers.						
Image: Section of the section of t	1	1 No. 0 to 500 V Digital voltmeter with selector switch.						
Image: Problem Proble		Digital ammeter with selector switch with one set Suitable C.Ts.		+				
Image: Problem Proble								
v     Note:     Note:     Note:     Note:       v     Note:     Note:     Note:       v     Note:     Note:       v     Note:     Note:       v     Note:     Note:       v     Note:     Note:       v     Note:     Note:       v     Note:     Note:       v     Note:     Note:       v     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:       Note:     Note:     Note:	b)			<u> </u>				
A     A     Apoint State				+				
A Media Marcine La constant alors     Sul     1     And alors	c)	OUTGOING:						
A Media Marcine La constant alors     Sul     1     And alors	ii)	8 no. 63 Amps, 415 volts, 9 KA, Four Pole, Miniature Circuit Breaker.		+				
Image: Province of the section of the sectin of the section of the section of the section of the section of t	+		Set	1				
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AM       Mode MARCHARTMANAUAD       Mode MarchartMANAUAD       Mode MarchartMANAUAD         AM       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         AM       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD         Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD       Mode MarcHARTMANAUAD	<del> </del>	TOTAL SUB HEAD 5: MV PANEL AS MENTIONED ABOVE						
Aff       Supplies A fare failway way, there plas and out out way, MK distribution band, and MA distribution band, and distribution band, and distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distribution band, and MA distrelation band distrelatity distribution band, and distribution ban		SUB HEAD 6: MCB DISTRIBUTION BOARDS.		+				
i       i       iscalation and exception with Note, Webbe, wind Note, Webbe, wind Note, Webbe, wind Note, Webbe, W	6.00	MCB DISTRIBUTION BOARD		+				
I     Specific Condition     Feb		recess/surface complete with loose wire box, terminal blocks, tinned copper busbar, neutral link, earth bar, din bar,						
I       I       Symphysic A finite Control basis and a regard of the second regard and a regard and regard and a regard and a r		detachable gland plate, interconnections, phosphatized and powder coated including earthing connection bolt etc. as per technical specifications and as required.(but without MCB & RCCB).						
I       I       Symphysic A finite Control basis and a regard of the second regard and a regard and regard and a regard and a r								
I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     V     V     V     V     V     V     V     V       I     I     V     V     V     V <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
i       i       Supply if A farge following wy, wije pok ad annichber stell. WD distribution book, band my huld, burd,			Each					
increasivance complex with loses with loses, terminal block, te	+ <b>"</b>	o nay (or 2-7), souldie uitoi	Each	168				
increasivance complex with loses with loses, terminal block, te	6.02	Supplying & fixing following way, single pole and neutral,sheet steel, MCB distribution board, 240 volts,on		+				
i       jer technical specifications and as required, (but without MCB & RCCD).       i		recess/surface complete with loose wire box, terminal blocks, tinned copper busbar, neutral link, earth bar, din bar,						
I       Supplying & fixing following parks of some for pole, 45 wolk, Minitater Creating Beed and are quired.       Fixing Beed and are quired.		DB the contractor has to take approval of DB schedule/drawing of each DB from the Electrical Engineer, HSCC, as any tophoid georgifications and as provided (but without MCD * DCCD)						
ii       2 sup Double door       Ex.h       90         6.03       Supplying & fining 6 Amps to 32 Amps rating, 240 volk, B' series, mininture circuit breaker suitable for lighting & other back of following poles in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following poles in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following poles in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following rating for pole, 415 volk, Miniature Creat Breaker (MCB) in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following rating four pole, 415 volk, Miniature Creat Breaker (MCB) in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following rating four pole, 415 volk, Miniature Creat Breaker (MCB) in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following rating four pole, 415 volk, Miniature Creat Breaker (MCB) in the costing MCB DB complete with connections, testing & commissioning etc. as per local door door door door door door door doo		per tecnnical specifications and as required.(but without MCB & KCCB),						
ii       2 sup Double door       Ex.h       90         6.03       Supplying & fining 6 Amps to 32 Amps rating, 240 volk, B' series, mininture circuit breaker suitable for lighting & other back of following poles in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following poles in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following poles in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following rating for pole, 415 volk, Miniature Creat Breaker (MCB) in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following rating four pole, 415 volk, Miniature Creat Breaker (MCB) in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following rating four pole, 415 volk, Miniature Creat Breaker (MCB) in the costing MCB DB complete with connections, testing & commissioning etc. as per local door following rating four pole, 415 volk, Miniature Creat Breaker (MCB) in the costing MCB DB complete with connections, testing & commissioning etc. as per local door door door door door door door doo								
6.03       is supplying at fining 6 Ampri and 3 260 vike. W refers, training vice with books with black for lighting 6.0 minisking with, an per lighting 6.0 minisking with, an per lighting 6.0 minisking with, an per lighting 6.0 minisking with, an per lighting 6.0 minisking with, an per lighting 6.0 minisking with, an per lighting 6.0 minisking with, an per lighting 6.0 minisking with, an per lighting 6.0 minisking with vice with black for lighting 6.0 minisking with connections, using 8. commissioning with, as per lighting 6.0 minisking with vice with with vice with with vice with with vice with with vice with with vice with with vice with with vice with with vice with with vice with with vice wi			Each	20				
i       ichical speciations & as required. <t< td=""><td>II</td><td>12 way Double door</td><td>Each</td><td>98</td><td></td><td></td><td></td><td></td></t<>	II	12 way Double door	Each	98				
i       ichical speciations & as required. <t< td=""><td>6.03</td><td>Supplying &amp; fixing 6 Annos to 32 Annos rating. 240 yolts B' sories miniature circuit breaker suitable for lighting &amp; other</td><td></td><td><u>+</u></td><td></td><td></td><td></td><td></td></t<>	6.03	Supplying & fixing 6 Annos to 32 Annos rating. 240 yolts B' sories miniature circuit breaker suitable for lighting & other		<u>+</u>				
i     Single pole     Single pole     Single pole     Single pole       i     Single pole     Each     246       i     Tripic pole & second     Each     246       i     Single pole     Single pole     Single pole       i     Single pole     Single pole     Single pole       i     Single pole     Single pole     Single pole       i     Single pole     Single pole     Single pole       i     Single pole     Single pole     Single pole       i     Single pole     Single pole     Single pole       ii     Single pole     Single pole     Single pole       iii     Single pole     Single pole     Single pole		loads of following poles in the existing MCB DB complete with connections, testing & commissioning etc. as per						
ii     Triple pole & neuronal     Exh     Ait       6.04     Supplying & fining following rating, four pole, 415 vols, Miniature Crical Breaker (MCB) in the existing MCB DB complete with connections, testing & commissioning etc., as per technical upcefications and as required.     Ait       1     25 Amps     Exh     51       1     25 Amps     Exh     51       1     40 Amps     Exh     54		tecnnical specifications & as required.						
i       i			Each	7948				
A       Supplys & fring following rating, four pok, 415 volk, Miniane Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Complex Windows Cocia Becker (MCB), in the using MCB       Image: Co	н	Triple pole & neutral						
I         SAmp         Each         S1           I         32 Amps         Each         S1           II         32 Amps         Each         S1           III         30 Amps         Each         S2				L				
I         SAmp         Each         S1           I         32 Amps         Each         S1           II         32 Amps         Each         S1           III         30 Amps         Each         S2	6.04	Supptying & trxing tottowing rating, four pole, 415 volts, Miniature Circuit Breaker (MCB), in the existing MCB DB complete with connections, testing & commissioning etc. as per technical specifications and as required.						
ii         32 Amps         Each         44           iii         40 Amps         Each         85								
ii         22 Amps         Each         44           iii         40 Amps         Each         85			Each					
r po nupe								
	IV	or comba	Each	196				

S.No.	Description.	Unit.	Quantity Rate i	Figures (in Rs.) Rate in Words	Amount in Figures ( Rs.)
6.05	Supplying & fiding following rating, four pole, 415 volts, Residual Current Circuit Breaker (RCCB) having a sensitivity current upto 300 mA in the existing MCB DB complete with connections, testing & commissioning etc. as per technical specifications and as required.				
	i 25 Amps	Each	51		
	11 32 Amps 11 40 Amps	Each	44		
	iv 63 Amps	Each Each	85 196		
		Laci	190		
6.06	Supplying and fixing following rating, double pole, 240 volts, MCB (B/C/D/Curve) in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	i 32 anps ii 40 anp	Each	20		
	n wanp	Each	88		
6.07	Stippling & Hong Advorage reating: Double pair, 200 only. Residual Current Creatil Breaker (RCCB) Intellig a tentility current upp 500 m.h. the existing ACB DB complete with connections, testing & commissioning etc. as per technical specifications and as required.				
	i 32 amps	Each	20		
	ii 40 amp	Each	88		
6.08	Supplying and fixing Single pole Blanking plate in the existing MCB DB complete as required.	Each	820		
Ī	TOTAL SUB HEAD 6: MCB DISTRIBUTION BOARDS AS MENTIONED ABOVE				
	COTAL SOL HEAD 9. NOD DISTRIBUTION BOARDS AS MENTIONED ADOVE				
7.00	SUBHEAD 7: UPS SYSTEM				
7.01	UPS 40 KVA. (OTS ) CHAMBA				
7.01	Supply, Installation, Testing and Commissioning of micro processor based 2 x 40 KVA at 0.8 power factor at out put,				
	with over all efficiency of minimum 92% at full load. True Onlae Double Conversion UPS using PWM (GBT technology. 3 Phase input 145 V + 10% + 15% and input frequency 50 Herz phas minus 5%, 3 phase input and 3 phase ioutput fixed setting at 380, 400 and 415V. UPS operating in parallel redundant load sharing mode (N+1) configration and each comprising of the following:				
	(a) 125% rated Rectifier cum charger unit + 100% rated inverter, integrated in UPS module				
	(b) IGBT Rectifier input for achieving THDi<5% and Input power factor of greater than 0.99				
	(c)1007 reted external isolation transformer of H-class Delta/Star at the UPS output, after static bypass including				
	cabling between UPS and transformer				
†	(d) 100% rated Inbuilt static switch				
	(f) 100% rated Inbuilt Maintenance Bypass				
	(g) 100% rated moulded case circuit breaker having I thermal, magnetic and automatic U/V trip mechanics				
	(i) RS 485 port for BMS connectivity				
†	(j) Supplying and installing Built-in suitable air-circulating fan .				
	Input phase reversal protection to be provided as standard, UPS should shift on battery and provide alarm.				
	(k) Supply, Installation, Testing and Commissioning of 12 V sealed maintenance free, Valve Regulated Lead Acid (VRLA) batteries for providing 30 minutes back up on each UPS at full load at 0.8 power factor.				
	(I) Supply, Fixing of battery rack for each UPS system along with inteconnecting links, BCB etc as required				
	(in) UPS Should be provided with of State Bypase Module having High Switching Frequency Microprocessor Based with built Technical Protections like Shord Creator, Devoland, High User Volage uterfor Protection of load from source inclusive of Bypass facility, SBM is activated during malfunctioning conditions of Load like- Shord Creation and				
	- Bypassing of particular load if reqd.				
	UPS 40 KVA (OTS ) CHAMBA AS MENTIONED ABOVE.	Set	1		
7.02	UPS 30 KVA. (ICUs , Pre & Post)- CHAMBA				
7.02	UPS 30 KVA. (ICUS, JPre & Post): CHAMBA Shoppi, Insulation, Testing and Commissioning of micro processor based 2:3:30 KVA at 0.8 power factor at out petr with over all efficiency of minimum 92% at full load. True Onlae. Double Conversion UPS using PWA (IGPT incrhnology. 3 Phase input 415 V HVB-15% and ingle tropency 50 Herz hostminus 5%, 3 phase input at 03 phase toutput fixed setting at 380, 400 and 415V. UPS operating in parallel redundant load sharing mode (N+1) configration and each comprising of the following:				
	(a) 125% rated Rectifier cum charger unit + 100% rated inverter, integrated in UPS module				
	(b) IGBT Rectifier input for achieving THDi<5% and Input power factor of greater than 0.99				
	(c)100% rated external solation transformer of H-class Delta/Star at the UPS output, after static bypass including cabling between UPS and transformer				
]	(d) 100% rated Inbuilt static switch				
T	(f) 100% rated Inbuilt Maintenance Bypass				

S.No.	Description. U	nit. Ouantity	Rate in Figures (in Rs.)	Rate in Words	Amount in Figures
	(g) 100% rated moulded case circuit breaker having I thermal, magnetic and automatic U/V trip mechanics		(		( Rs.)
	(g) 100% fated moused case circus oreaser naving I merina, magnetic and automatic O/V up mechanics				
	(i) RS 485 port for BMS connectivity				
	(j) Supplying and installing Built-in suitable air-circulating fan .				
	Input phase reversal protection to be provided as standard, UPS should shift on battery and provide alarm.				
	(k) Supply, Installation, Testing and Commissioning of 12 V sealed maintenance free, Valve Regulated Lead Acid (VRLA) batteries for providing 30 minutes back up on each UPS at full load at 0.8 power factor.				
	() Supply, Fixing of battery rack for each UPS system along with inteconnecting links, BCB etc as required				
	(m) UPS Should be provided with of Static Bypass Module having High Switching Frequency Microprocessor Based with builtin Technical Protections like Short Circuit, Overload, High/ Low Voltage cutoff protection of load from source inclusive of Bypass Facility, SBM is activated during malfunctioning conditions of Load like.				
	-Short Circuit - Overload - Over temprature				
	- Bypassing of particular load if reqd.				
	UPS 30 KVA. (ICUs., Pre & Post)- CHAMBA AS MENTIONED ABOVE.	Set 1			
	TOTAL SUBHEAD 7: UPS SYSTEMS				
	SUB HEAD 8: WIRING				
8.00	WIRING				
8.01 i	i Wiring for light point/fanpoint/ exhaust fan point/call bell point with 1.5 sq.mm. PVC insulated, fire retardant low smoke (FRLS) copper conductor cable, single core/ multi strand, in steel conduit (Including supplying & recess laying of MS)				
	conduit and accessories) including the following and complete as required.				
P	II Supplying and Fixing Modular type switches (modular Bell push in case of call bell points) in suitable size modular metal boxes, base plate & modular cover plates, space for fixing electronic fan regulator in case of fan point wiring & space for				
	fixing 5A socket on the board etc.				
	III Supplying and fixing Hexagonal fan Boxes with 3 mm thick hylem sheet covers in case of Fan Points				
iv	iv Supplying & Fixing Ceiling Rose in case of Exhaust Fan Points etc.				
	Note : i) Unless otherwise specified all the conduiting work to be done in recess				
	Point wiring as mentioned above Group B				
	Point wiring as mentioned above Group C	oint 2938			
	P	oint 7470			
8.02 1	<ol> <li>Wiring for twin control light points with 1.5 sq.mm. PVC insulated, FRLS copper conductor cable in MS conduit (including supplying and recess laying of MS conduit) including the following and complete as required.</li> </ol>				
, p	ii Supplying and Fixing Modular type two numbers 2 Way switches in suitable size modular metal boxes, base plate & modular cover plates etc.				
	Note :				
	i) Unless otherwise specified all the conduiting work to be done in recess				
	Wiring for twin control light points as mentioned above Po	oint 360			
8.03	Wiring for Submain/ circuit wiring with following size of PVC insulated FRLS copper conductor single core/multi strand cable in recessed steel conduit (including supply & laying of recessed conduit) as required.				
	I 2X1.5 Sqmm with 1 No. 1.5 sqmm PVC FRLS insulated, copper conductor for earthing.				
		letre 17760			
	M WA General M L No. 4 server INIC lands of IDI C server and state for each land	letre 32115			
	Million Million Million Annual An	letre 49950 letre 4920			
v	v 2X10 Sqmm with 1 No. 6 sqmm PVC insulated FRLS copper conductor for earthing M	letre <b>3100</b>			
	vi 4X4 Sqmm with 2 No. 4 sqmm PVC insulated FRLS copper conductor for earthing M	letre 1960			
	dW 4V10.6	letre 2450			
	ix 4X16 Sqmm with 2 nos 6 sq mm PVC insulated FRLS copper conductor for earthing.	letre 1950			
	М	letre 4200			
8.04	Reviring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.rnm FRLS PVC insulated copper- conductor single core cabe and 1.5 sq.rnm. FRLS PVC insulated copper conductor single core cabe as earth wire in existing utrafact recessed steal PVC conduit licelulating dismantifing as required.				
		oint 800			
8.05	Rewing for twin control light points with 15 ag nm FRLS PVC insulated copper conductor single core cable and 15 sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel /PVC conduit including dismanting as required.				
	Pc	oint 40			
T					

[			[]			Amount in Figures
S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	(Rs.)
8.06	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel / PVC conduit as required					
	i Ix1.5 Sq.mm	Metre	400 400			
	ii 2x2.5 Sq.mm iii 2x4 Sq.mm	Metre Metre	200			<u>+</u>
	iv 2x6 Sq.mm	Metre	200			
8.07	Supply and fixing of following medium class PVC FRLS conduit along with accessories in surface /recess inculding					<del> </del>
	cutting the wall and making good the same in case of recessed conduit as required.					
	i 32mm ii 25mm	Meter	400			<del> </del>
	iii 20mm	Meter Meter	600 600			+
						İ
8.08	Supplying and fixing suitable Modular GI box on surface or in recess including providing and fixing 3 pin 5/6 amps, modular socket outlet with shutters and 5/6 amps, modular type switch with indicator type, base plate, modular cover					
	plate, connections etc. and all civil works complete as required.					
		Each	965			<u> </u>
8.09	Supplying and fixing suitable modular GI box on surface or in recess including providing and fixing 6 pin 15/16 A					<u>+</u>
	modular socket outlet with shutters and 15/16 A modular switch with indicator, base plate, modular cover plate, connections, etc. and all civil works complete as required.					
		Each	1708			
8.10	Supplying and fixing suitable Modular metal box on surface or in recess including providing and fixing three nos 3 pin					<u> </u>
	5/6 amps. modular socket outlet with shutters and one no. 10 amps. modular type switch, base plate, modular cover plate, connections etc. and all civil works 'complete as required. (For computer Points)					
	( i or computer i ones)					
		Each	1159			ļ
8.11	Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing two nos 3 pin 5/6		<u> </u>			
	amps. & two 6 pin 15/16 amp modular socket outlet with shutters and one no. 25 amps. modular switch, base plate, modular cover plate, connections etc. and all civil works 'complete as required.					
	(For Comb-1/ Bed Point)					
		Each	372			
8.12	Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing two nos 3 pin 5/6 amps. & one 6 pin 15/16 amp modular socket outlet with shutters and one no. 20 amps. modular switch, base plate,					İ
	amps, & one o pin 15/10 amp modular socket oulet with shutlers and one no. 20 amps, modular switch, base pate, modular cover plate, connections etc. and all civil works 'complete as required. (For Comb-2/Consultant point)					
	(For Comb-2/Consultant point)	Each	1250			
		Laci	1250			
8.13	Supplying and fixing suitable Modular metal box surface or in recess including providing and fixing two nos 3 pin 5/6 armos, modular socket outlet with shutters and one no. 5 armos, modular type switch, base plate, modular cover plate.					
	amps. modular socket outlet with shutters and one no. 5 amps. modular type switch, base plate, modular cover plate, connections etc. and all civil works complete as required. ( COMBO POINT-3/ TV Point )					
		Each	219			
8.14	Supplying and fixing suitable module modular GI box on surface or in recess including providing and fixing 3 pin 20 A					İ
	modular socket outlet with shutters and 20 AMP SP MCB, base plate, modular cover plate, etc. on surface or recess complete with all accessories including connections, testing and commissioning etc. as required.					
		Each	88			
8.15	Provide and Solar Schurder 2022 Amer. 240 order 2017. Indexed a Schurd (eich share) is a second have with					
8.15	Supply and fixing following 20/32 Amps, 240 volts, 2P+E, Industrial Socket Outlet (with plugs) in a metal box with 20/32 SP MCB in a sheet steel cover on surface or recess complete with all accessories including connections, testing					
	and commissioning etc. as required.	Each	240			
8.16	Supply and fixing following 63/100 Amps, 240 volts, 2P+E, Industrial Socket Outlet (with plugs) in a metal box with 63/100 SP MCB in a sheet steel cover on surface or recess complete with all accessories including connections, testing					
İ	and commissioning etc. as required.					
		Each				
8.17	Supplying, providing & fixing cordless musical bell with batteries etc of approved make complete as required.					
		Each	209			
8.18	Supply and fixing following FP MCCB, 415 volts, 35 KA (Isc), Four Pole with thermal magnetic release having variable					
	current setting (0.8 to 1.0 In) with Extended rotary operating mechanism including door interlocking with defeat feature and padlock facility in a sheet steel enclosure on surface complete with all accessories including, connections, testing					
1	and commissioning etc. as required.					
	i 63 Amp	Each	10			
	ii 125 Amp	Each	-*			
	iii 250 Amp iv 320Amp	Each	1			
		Each	2			<u> </u>
8.19	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.					
	required.	Each	494			
			L			
8.20	Supply. Installation, Testing & Commissioning of 360 degree Ceiling recess mountable 360 degree multifunction sensor that combines motion detection (PIR), Infrared remote control reception (IR) and ambient light level detection (PE) into					
	one device.	Nos.	30			
8.21	Supply, Installation, Testing & Commissioning of Standalone Ceiling Mounted Motion PIR sensor 360 degree.		ļ			
0.21	mapping, mananon, reasong or commissioning or communitie Centry produced product rate sensor 500 degree.	Nos.	90			
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.No.	Description.	Unit.	Quantity	Pote in Figure - /- D-	Rate in Words Amount in	
		Unit.	Quantity	Rate in Figures (in Rs.)	Kate in Words (R	Rs.)
3.22	Supply, Installation, Testing & Commissioning of Standalone Wall Mounted Motion PIR sensor 90 degree.	Nos.	60			
	TOTAL SUBHEAD 8: WIRING AS MENTIONED ABOVE					
	TOTAL SUBHEAD 8: WIRING AS MENTIONED ABOVE		+			
t	SUB HEAD 9: LIGHT FIXTURE AND FANS		<u>†</u>			
9.00	LIGHT FIXTURES AND FANS		+			
0.01	Supply of following LED light fixture with high efficiency with Driver , tubes/lamps, reflector, diffuser, body/housing		+			
	holder etc. complete with all fixing accessories as required.					
+	1 1 x 18 W LED box type fluorescent light fixture (Philips LED 31084/31 Shellline .6500K PSE OD GR with minimum		+			
	1 1 x 18 W LED box type fluorescent light fixture (Philips LED 31084/31 Shellline ,6500K PSE OD GR with minimum system lumen 1600 or approved equivalent from list of Makesy(120bw )					
	ii 1 x 20 W LED box type fluorescent light fixture (Philips BN108C LED 20S PSU CDL WH including Mounting	Each	1082			
	Accessories, with minimum system lumen 2100 or approved equivalent from list of Makes )(136b/ 136bw)					
		Each	300			
1	iii 2 x 20 W LED box type fluorescent light fixture (Philips BN108C LED 40S PSU CDL WH including Mounting Accessories, with minimum system lumen 2100 or approved equivalent from list of Makes )(236b/236bw)					
		Prob	80			
	v LED Recessed flush mounted light fixture (Full Glow (1200mm), Philips RC380B G2 LED-35S-6500 L120W30 PSU	Each	80			
	OD or Cromptom LCTLR-40-CDL as per requirment with minimum system lumen 3000 or approved equivalent from list of Makes)(RMSQ3, ICU)					
		Each	695			
	v LED recessed flush mounted light fixture (Full Glow (600mm), Philips RC380B G2 LED355-6500 PSU OD WH or Cromptom LCTLRN-36-FO-CDL per requirment with minimum system lumen 3000 or approved equivalent from list					
	Cromptom LCTLRN-56-FO-CDL per requirment with minimum system turnen 3000 or approved equivalent from list of Makes)(RMSQ3, ICU)					
	d TTD second dash second lists from (from Dills, D.O.O.D. TTD 400 (600 DIT UNA) 400 T	Each	595			
`	V LED recessed flush mounted light fixture (Sereno Philips RC869B LED-30S-6500 PSE W30L 120 D8 WH Size 600 x 600 mm/ 1200 mm as per requirment, with minimum system lumen 3000 or approved equivalent from list of					
	Makes)(236RMO2)	Each	485			
v	iii LED Surface mounted light fixture (Philips SP824P LED 29S-5000 GR OD or Cromptom LCTLS-40-CDL as per requirment with minimum system lumen 3000 or approved equivalent from list of Makes)(236SM01)					
		Each	2294			
v	iii 1 x 20 W LED box type fluorescent light fixture (LED ASTRA, Philips BN 150 W LED 20S-6500 PSE OD GR with minimum system lumen 2000 or approved equivalent from list of Makes)(120bw)		1			
		Each				
1	ix LED recessed flush mounted light fixture (AURA I Crompton LCPL-36-CDL/TL Size 600 x 600 mm/ 1200 mm as per		1			
	requirment, with minimum system lumen 3000 or approved equivalent from list of Makes)	Each	1			
		nach	+			
	x 1 x 10 W Bulk Head light fixture (Philips WT202 W LED 6S CW PSU S1 PC or approved equivalent from list of		1			
	Makes)(BH)	Each	121			
3	xi 1 x 10 W Mirror top with diffuser in 2ft variant (Crompton Greaves LINNET # LCL-10-CDL or approved equivalent from list of Makes)(wtoilet)	Each	500			
x	di Surface mounted Batten holder (Plastic) with 9 watt LED		+			
	iii 1 x 15 W LED Surface mounted down light fixture (Philips DN170C LED 10S-6500 PSU WH or approved equivalent	Each	120			
1	from list of Makes)(DL1)	Each	846			
x	4v LED Recessed flush mounted down light fixture (Philips DN194B LED 15S -6500 PSU WH or Crompton LCDD-18- CDL/TL/WW or approved equivalent from list of Makes)(DL0)					
		Each	50			
x	xv 1 x 18 W LED Surface mounted down light fixture (Crompton Greaves Pearl Round LCD SPL-R-18-CDL or approved equivalent from list of Makes )		400			
x	vi 1X3 / 5 W LED Surface /Recessed flush mounted light fixture to be used as night lamp Ceiling mounted (NLCM)	Each	400			
1		Each	50			
x	vii 1X3 / 5 W LED Recessed flush mounted light fixture to be used as night lamp wall mounted (NLWM)		T			
	viii 1 x 10 W wall Bracket (Philips LED-1 x 10 W 45617/17 Vase or approved equivalent from list of Makes)(WB)	Each	80			
1		Each	132			
x	dx 1X36 LED Surface mounted down light fixture (Crompton Greaves Pensile LCSA1-36-CDL/S or approved equivalent) (DL2)					
		Each	<u> </u>			
x	cx 1X50 LED Recess mounted down light fixture (Crompton Greaves Prakhar LCDNR-50-CDL/WW or approved equivalent)					
		Each	70			
			Ļ			
0.02	Supply of following ceiling fans (BEE -5 Star Rated) complete with double ball bearing, motor, blades, downrod, canopies, capacitor, modular type electronic fan regulator, suitable for operation on 230 volts, 50 Hz., 1 phase, AC					
	supply complete as required.		1			
	i 1400 mm Sweep	Each	50			
	ii 1200 mm Sweep ii 900mm Sweep	Each	2036			
	iii 900mm Sweep	Each	40			
03	Supply of 1380 RPM, 300 mm (Crompton Greaves Trans Air or approved equivalent) exhaust fan suitable for single		+			
	phase 230 volts, 50 Hz., AC supply complete with motor, louvers/shutters etc. complete as required.					
		Each	217			
+	Supply of 1250 RPM, 250 mm (Crompton Greaves Brisk Air or approved equivalent) exhaust fan suitable for single		+			
.04	phase 230 volts, 50 Hz., AC supply complete with motor, louvers/shutters etc. complete as required.					
		Each	150			
			1			
.05	Supply of 400 mm sweep, Crompton greaves model high flow 16" wall mounted fan complete with double ball bearing, motor, blades, capacitor etc suitable for single phase 230 volts, 50 Hz., AC supply, complete as required.					
	motor, onneo, enqueros ese suntable foi singre prase 250 voits, 50 Hz., AC suppry, complete as required.	Each	6			
<u> </u>			İ			
06	Installation, testing and commissioning of wall bracket /ceiling fittings of all sizes and shapes containing LED lamps per fitting, complete with all accessories including connections etc. as required.					
	mang, complete wan an accessories including connections etc. as required.		1			

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S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	Amount in Figures ( Rs.)
			++			
9.07	Installation, testing and commissioning of ceiling fan and modular type electronic fan regulator (Electronic regulator to					
	be fixed in switch board) including wiring the down rod and connection with 1.5 sqmm FR PVC insulated, copper conductor single core/multi strand cable including providing & fixing phenolic laminated sheet cover on the fan box, etc.					
	as required.					
		Each	2126			
9.09	Installation, testing and commissioning of exhaust fan up to 400 mm sweep in the opening, including making the hole to suit the size of the above fan including , fixing of louvers/ shutters with frame making good the damages etc. as		1			
	to suit the size of the above fan including , fixing of louvers/ shutters with frame making good the damages etc. as required.		367			
		Each	.367			
9.10	Installation, testing and commissioning of wall mounted fan up to 400 mm sweep including supply and fixing wall		†			
	bracket arrangement complete as required.	Each	6			
9.11	Supply, installation, testing and Commissioning of LED Type Aviation light Philips XGP400 1xLED-K2/RD240V or		+			+ 
	approved equivalent including its wiring.	Each	18			
	TOTAL SUBHEAD 9: LIGHT FIXTURE & FANS AS MENTIONED ABOVE		<b>↓↓</b>			
	IOTAL SUBHEAD Y: LIGHT FIATURE & FANS AS MENTIONED ABOVE					
	SUB HEAD 10: TELEPHONE SYSTEM					
10.00 10.01	TELEPHONE SYSTEM Supplying drawing, connecting and testing of 0.5mm dia annealed copper conductor PVC insulated PVC sheathed					
10.01	supplying drawing, connecting and testing of 0.5mm dia anneated copper conductor PVC insulated PVC sneathed telephone Wire/cables in Existing M.S/ PVC conduit or a racks as required.					
	2 pair Telephone cable. (0.5 mm)		ļ			
		Meter	13000			
10.02	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or surface the well and making acced the same in some of accessed conduit or spanial		1			
	of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
i	20 mm	Metre	6500			
ii	25 mm	Metre	3250			
10.03	Supply. Tixing, connecting and testing of telephone modular sockets modular plate anodised MS box and blanking plate in surface / recessed including connectionetic as required.		+			
	plate in surface / recessed including connectionetc as required.					
i	Telephone socket outlet (RJ-11 telephone Jack Single with Shutter)	Each	614			
ii	Telephone socket outlet (RJ- 11 telephone Jack double with Shutter)	Each	36			
10.04	Supplying, Installation, testing and commissioning of following sizes of telephone distribution board in M.S. hinged type		ļ			
10.04	suppying, instantiation, testing and commissioning or following sizes of telephone distribution obtain in with imper type lockable box duly painted complete with Krone type tag block etc. including terminations of cable as required.					
·····	200 Pair					
	200 Pair 100 Pair	Each Each	2			
ш	20 Pair	Each	4 10			
iv	10 Pair	Each	40			
10.05	Supplying and drawing of following pairs 0.5mm dia annealed bare copper conductor Polythene insulated, core twisted		+			
	into pairs armoured telephone cable on surface/tray with saddels including termination of cables at both sides in Krone Tag Block etc. complete as required.					
	rag brock etc. complete as required.					
	20 Pair 10 Pair	Metre Metre	454			
		Mette				
10.06	Supplying and drawing of following pairs 0.5 mm dia annealed bare copper conductor Polythene insulated, core twisted into pairs armoured jelly filled telephone cable in the existing trench/ hume pipe/ GI pipe etc with saddels etc. including					
	terniation of cables in both sides at krone tag block complete as required.					
			ļ			
	200 pair	Metre	460 500			
	100 Pair	Metre	500			
10.07	DIGITAL EPABX SYSTEM (COMMUNICATION SERVER) CHAMBA HOSPITAL SITE					
L			<u> </u>			
А	Supply, installation, testing & commissioning of 32 bit microprocessor based, fully digital, 100% non blocking, PCM- TDM, true ISDN & PRI Line and IP ready digital EPABX with distributed architructure for power supply cards, as					
	per specifications with following configuration:					
	IP PBX 600 Extensions Expandable type		ļļ			
	IP PBX 600 Extensions Expandable type IP User -10 users		+			
	Configured For-		+			
T	Analog P&T Lines- 16 (Expandable upto 12 Lines)		1İ			
	ISDN PRI Line (30 Channels)- 2 nos with CLIP Facility 24 Extension Digital Card : Ino		+			
	SUBSCRIBER INTERFACE:		†İ			
	Voice Mail system Consisting of Voice mail Boxes for all Users , Auto attendted system with greeting messages PC for		†			
	Attending voice mail system Redundant Lan Port and Wan Port-2		ļ			
	Redundant Lan Port and Wan Port-2 Redundant Call Processor		+			
	Redundant Power Supply		†			<u> </u>
	Full Software Licances & Support		1			
	In-built Music on Hold Remote maintenance.		<u> </u>			
	Ethernet port for LAN connectivity and System Management		+			
	Support for Voice over IP (VoIP)		<u>†</u> †			<u> </u>
	Day/Night service		ļļ			
	8 party conference Facility Speed Dail		+			<u> </u>
L	<u>j · </u>		ل			1

No.     No.     No.     No.     No.     No.     No.     No.       No.	7					
Image: Solution of the second of the seco	S.No.	Description.	Unit.	Quantity Rate in Figures (in	Rs.) Rate in Words	Amount in Figures
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Image: Problem Proble		support for OPC Connectivity Support for Wi-Fi based wireless extensions				
Name         Participation <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Image: Section of the sectio		Iot Standby Duplication of all common control card without call disconnection.				
Submitter     Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter     Submitter     Submitter       Submitter     Submitter     Submitter<		P Based operator Console with PC - 1 Nos.				
1     Abstraction of the state		hould support IP Telephony and should be able to intergrate other EPBAX System on IP				
1     Abstraction of the state			6			
No. 100 Monton Monto		JIGITAL EPABX SYSTEM AS MENTIONED ABOVE	Set	1		
Image: Section of the section of t	В	laot Cum Boost Charger (FCBC )for Above EPBAX System 48 V/125 Amp Inculding SMS Batteries with 2 hr				
A     A     A     A       A     A       A     A       A     A       A     A       A     A       A        A		Battery Back Up )	Set	1		
A     A     A     A       A     A       A     A       A     A       A     A       A     A       A        A	+					
A     A     A     A       A     A       A     A       A     A       A     A       A     A       A        A	10.08	Supply, installation, testing and commissioning of Main Distribution frame Excanger side - Krone type for above				
9         Schwarzschowarzschwarzschwarzschowarzschwarzschwarzschwarzschwarz		ystem with IPM (protection Magzine) including mounting frame, etc/ Complete as required as per specifications.				
set all y proceedings and y and			Set	1		
set all y proceedings and y and	10.09	annly installation testing and commissioning of Field Side. Distribution frame Exchanger side - Krong type. for above				
Area         Area         Area         Area           Area         Ar	10105	ystem with IPM (protection Magzine) including mounting frame, etc/ Complete as required as per specifications.				
A     A     A     A     B <td></td> <td></td> <td>Set</td> <td>1</td> <td></td> <td></td>			Set	1		
A     A     A     A     B <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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Image: Product States program     Image: Product States program     Image: Product States program       Image: Product States program     Image: Product States product States Product Product States Product Product States Product Produ	A	Supply, installation, testing & commissioning of 32 bit microprocessor based, fully digital, 100% non blocking, PCM-				
I     Not Grant Monthe Mo		TDM, true ISDN & PRI Line and IP ready digital EPABX with distributed architructure for power supply cards, as are specifications with following configuration:				
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No. 2002     Proceedings     Proceed		P PBX 256 Extensions Expandable type				
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Image: Second sequence in the Second seco		Analog P&T Lines- 16 (Expandable upto 12 Lines)				
Image: Section Sectin Sectin Section Section Section Section Section Section Section						
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Image: Second symmetry of the		/oice Mail system Consisting of Voice mail Boxes for all Users . Auto attendted system with greeting messages PC for				
Image: Second		Attending voice mail system				
Image: Section Sectin Sectin Section Section Section Section Section Section Section		Redundant Lan Port and Wan Port-2				
Image: Selection Se		Redundant Call Processor				
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Image: Second	1 1	Remote maintenance.				
Image: Source		themet port for LAN connectivity and System Management				
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Image: Second		party conference Facility				
Note:     Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:     Note:     Note:     Note:       Note:     Note:		ipeed Dail				
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In       B       Basic Cur, Boot Clarger CRC. Yor Also of BPAX Syour 4 V(15 Aup fieldally SMS Burrey vin 2 ho       In         In       Basic Cur, Boot Clarger CRC. Yor Also of BPAX Syour 4 V(15 Aup fieldally SMS Burrey vin 2 ho       In       In         In       Basic Cur, Buston, Long and commanding of Man Dischaltan Ener Excarger 4 he - Your type fieldally.       In       In       In         In       Basic Cur, Buston, Long and commanding of Man Dischaltan Ener Excarger 4 he - Your type field       In       In       In       In         In       Basic Cur, Buston, Long and commanding of Man Dischaltan Ener Excarger 4 he - Your type field       In       In       In       In         In       Basic Cur, Boot Charger CRC. Your Allowang Headers       Set       In		hould support IP Telephony and should be able to intergrate other EPBAX System on IP				
Batery Back (py)     Set     1       Batery Back (py)     Mode     Set     1       Batery Back (py)     Set Back (py)     Set Back     Set Back       Batery Back (py)     Set Back (py)     Set Back     Set Back       Batery Back (py)     Set Back (py)     Set Back     Set Back       Batery Back (py)     Set Back (py)     Set Back     Set Back       Batery Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Set Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)     Set Back (py)       Back (py)     Set Back (py)     Set Back (py)     Set Back (py)     Set Bac		DIGITAL EPABX SYSTEM AS MENTIONED ABOVE	Set	1		
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Part Institute       Spephy, institutes, issuing and commissioning of Main Disrbation frame Excarge sale - Kone type for above provide security are provided as exception are provided as	۵ (	Battery Back Up )	Set	1		
Image: A second seco						
Image: A second seco		ystem with IPM (protection Magzine) including mounting frame, etc/ Complete as required as per specifications.				
system with IPM (protection Magine) including mounting frame, etc/Complete as required as per specifications.       Set       1         10.0       System, Van IPM (protection Magine) including mounting frame, etc/Complete as required as per specifications.       Set       1         10.0       System, Van IPM (protection Magine) including mounting frame, etc/Complete as required as per specifications.       Set       1         10.0       IP, Hard Conver VAD (Protection Magine) including mounting frame, etc/Complete as required as per specifications.       Set       1         10.0       IP, Hard Conver VAD (Protection Magine) influence mounting frame, etc/Complete as required as per specifications.       IP       Set       1         10.0       Fail alphabeter column.       IP			Set	1		
system with IPM (protection Magine) including mounting frame, etc/Complete as required as per specifications.       Set       1         10.0       System, Van IPM (protection Magine) including mounting frame, etc/Complete as required as per specifications.       Set       1         10.0       System, Van IPM (protection Magine) including mounting frame, etc/Complete as required as per specifications.       Set       1         10.0       IP, Hard Conver VAD (Protection Magine) including mounting frame, etc/Complete as required as per specifications.       Set       1         10.0       IP, Hard Conver VAD (Protection Magine) influence mounting frame, etc/Complete as required as per specifications.       IP       Set       1         10.0       Fail alphabeter column.       IP						
Image: Set of the second se	10.09	suppty, instattation, testing and commissioning of Field Side Distribution frame Excanger side - Krone type for above ystem with IPM (protection Magzine) including mounting frame, etc/ Complete as required as per specifications.				
IN.00     Steply, Justifiers, Testing and continuous of P Digital Phone having following forms:     Image: Control of P Digital Phone having following forms:       IN.00     Field Control Control Control     Image: Control Control       Field Control     Image: Control Control     Image: Control Control       Field Control     Image: Control Control     Image: Control Control       Field Control     Image: Control Control     Image: Control Control       Key-based     Image: Control Control     Image: Control Control       Hands free Operation     Image: Control Control     Image: Control Control       Image: Control Control     Image: Control Control     Image: Control Control       Image: Control Control     Image: Control Control     Image: Control Control       Image: Control Control     Image: Control     Image: Control       Image: Control Control     Image: Control     Image: Control       Image: Control     Image: Control     Image: Control       Image: Control     Image: Control     Image: Control       Image: Control     Image: Control     Image: Control       Image: Control     Image: Control     Image: Control       Image: Control     Image: Control     Image: Control       Image: Control     Image: Control     Image: Control       Image: Control     Image: Control     Image: Control			Set	1		
IP. Had Cooker VBas     IP. Had Cooker VBas     IP. Had Cooker VBas     IP. Had Cooker VBas       IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA       IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA     IP. Had Cooker VBA       IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA     IP. Had Cooker VBA       IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA     IP. Had Cooker VBA       Hans free operation     IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA       Hans free operation     IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA Dupping with 40% different colours       Hans free operation     IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA Dupping with 40% different colours       Hans free operation     IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA Dupping with 40% different colours       Hans free operation     IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA Dupping with 40% different colours       Hans free operation     IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA Dupping with 40% different colours       Hans free operation     IP. Had Cooker VBA Dupping with 40% different colours     IP. Had Cooker VBA Dupping with 40% different colours       Hans free operation						
Pull aphabetic keyboard     Pull aphabetic keyboard     Pull       Key-based navigation     Pull       Hands free operation     Pull       Bost in Class kodepeaker for spakerphone operation; also includes microphones.     Pull       Jack for hadder expansion     Pull       Compatible with PC applications     Pull       Bitecord concervity of the illunes in nitegration     Pull       Z Enternat ports     Pull       Bitecord concervity of the illunes in nitegration     Pull       Z Enternat ports     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Downloadide same afferer     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull       Bitecord constrable     Pull	10.10	Supply Installation . Testing and commissiong of IP Digital Phone having following features				
Pid aphabetic keyboard     Pid aphabetic keyboard     Pid aphabetic keyboard       Key baard netigation     Pid aphabetic keyboard     Pid aphabetic keyboard       Hank free operation     Pid aphabetic keyboard     Pid aphabetic keyboard       Best in Class kologeaker for spatesphore operation; also includes microphones     Pid aphabetic keyboard     Pid aphabetic keyboard       Jack for handler expansion     Pid aphabetic keyboard     Pid aphabetic keyboard     Pid aphabetic keyboard       Bistecod connectivity of the dimute in nitegration     Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard       2 Elforent ports     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard       Bistecod connectivity of the dimute in nitegration     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard       2 Elforent ports     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard       Bistecod connectivity of the dimute in nitegration     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard       2 Elforent ports     Pid Pid Pid Aphabetic keyboard     Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard       2 Elforent ports     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard       2 Elforent ports     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard     Pid Pid Pid Aphabetic keyboard <tr< td=""><td></td><td>r raru console rnône Full Colour VGA Display with 4096 different colours</td><td></td><td></td><td></td><td></td></tr<>		r raru console rnône Full Colour VGA Display with 4096 different colours				
Hank fire operation     Image fire operation     Image fire operation     Image fire operation       Bot is the backgroup regression for public operation: also includes mixequbane operation: also includes mixequbane.     Image fire     Image fire       Description:     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire     Image fire     Image fire     Image fire     Image fire       Backgroup fire	h	full alphabetic keyboard				
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Jack for backet expansion     Image: Im		Jands free operation				
Computative with PC applications     Image: Computative with PC applications     Image: Computative with PC applications       Blacksoch connectively for the ultimate in integration     Image: Computative with PC applications     Image: Computative with PC applications       2     Electrent ports     Image: Computative with PC applications     Image: Computative with PC applications       3     Dovenicative data administrative     Image: Computative with PC applications     Image: Computative with PC applications       4     Edge: Presention of the administrative     Image: Computative with PC applications     Image: Computative with PC applications       5     Edge: Presention of the administrative     Image: Computative with PC applications     Image: Computative with PC applications       6     Discrete with PC applications     Image: Computative with PC applications     Image: Computative with PC applications       6     Discrete with PC applications     Set     Set     Set						
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2 Elercity prots     Image: Constraint of the ansatz of the		Bluetooth connectivity for the ultimate in integration				
Eight Personalized King Paterns.		Ethernet ports				
Ether dek or will mountable 5 d 20 5						
DIGITAL IP PHONES AS MENTIONED ABOVE Set 20						
			Set	20		
IAU D. 21 pert Lager 2 Switch 10/00/1000 GBPS for IP phone Set 2						
	10.11 D.	4 port Layer 2 Switch 10/100/1000 GBPS for IP phone	Set	2		
	Ll			4		

SNM     Own     Decipion.     Uii.     Quarti     Rate in Figures on Rs.       SNM     Single Junitation. Testing and commission (Digital Pines having following forms): (Dictore generated of allowin	
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Image: Book Note Status       Image: Book Note Status         Status       Status         Status       Image: Book Note Status         Status       Status         Status       Image: Book Note Status         Status       Image: Boo	
See TWS 8 m         Scher The Backer         40 Programmable keys         323 contextual keys, 2 personal keys/LED         Statistic keys 4 directions         Aphaberic keys/directions         Aphaberic keys/directions         Biglial Phone as mentioned above         Statistic keys 4 directions         Biglial Phone as mentioned above         Statistic Keys 4 directions         Particle Keys Laber (College)         Statistic Keys 4 directions         Statistic Keys 4 directions         Biglial Phone as mentioned above         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions         Statistic Keys 4 directions </td <td></td>	
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2X3 contentional lays, 2 personal lays/LED       Image: Contention of the second of the	
2X3 contential keys. 2 personal keys. 2 personal keys. 4 personal keys. 2 personal keys. 4 personal keys. 2 personal keys. 4 personal keys. 2 hers. Manae with LED, Help, Handefree with LED     Image: Content keys. Leit. Message + LED, Reida, End Key, Volume +/-, Manae with LED, Help, Handefree with LED       Prioriter keys. Leit. Message + LED, Reida, End Key, Volume +/-, Manae with LED, Help, Handefree with LED     Image: Content keys. 2 hers. 3 he	
Adjubbets keyboard (Dail by same)     Image: Constant Key Volume +/-, Muse with LED, Heby, Handefree with LED       Feature keys LED, Reduk End Keys, Volume +/-, Muse with LED, Heby, Handefree with LED     Image: Constant Keys, Feature Keys, Volume +/-, Muse with LED, Heby, Handefree with LED       Image: Display of Analog phones having following features/Effering precurement of this item, the contractor shall have necessary appendix of analysis of Muse yield Phones an method phone in the contractor shall have necessary appendix of partice/Contex.       Image: Proceed appendix of provide Contex.     Image: Proceed appendix of partice/Contex.       Image: Proceed appendix of provide Contex.     Image: Proceed appendix of provide Phones       Image: Proceed appendix of provide Contex.     Image: Proceed appendix of provide Phones       Image: Proceed appendix of provide Contex.     Image: Proceed appendix of provide Phones       Image: Proceed appendix of provide Phones     Image: Proceed appendix of provide Phones       Image: Proceed appendix of provide Phones     Image: Proceed appendix of provide Phones       Image: Proceed appendix of provide Phones     Image: Proceed Phones       Image: Proceed appendix of provide Phones     Image: Proceed Phones       Image: Proceed appendix of provide Phones     Image: Proceed Phones       Image: Proceed Appendix of Phones     Image: Phones       Image: Proceed Appendix of Phones     Image: Phones       Image: Proceed Appendix of Phones     Image: Phones       Image: Phone Phone Phones     Image: Ph	
Feature keys Lik: Message + LED, Reidi, End Key, Volume +/-, Mute with LED, Heijs, Handsfree with LED     5st     15       Digital Phone a mentioned above     5st     15       F     Supply of Analog phones hoving followi	
Applied Phone amentioned above     Set     15       Pipelind Phone amentioned above     Set     15       Pipelind Phone amentioned above     Set     15       Pipelind Phone amentioned above     Set     15       Pipelind Phone amentioned above     Set     15       Pipelind Phone amentioned above     Set     15       Pipelind Phone amentioned above     Set     15       Pipelind Phone amentioned above     Pipelind Phone amentioned above     Pipelind Phone amentioned above       Pipelind Phone amentioned above     Pipelind Phone amentioned above     Pipelind Phone amentioned above       Pipelind Phone amentioned above     Pipelind Phone amentioned above     Pipelind Phone amentioned above       Pipelind Phone amentioned above     Pipelind Phone amentioned above     Pipelind Phone amentioned above       Pipelind Phone amentioned above     Pipelind Phone amentioned above     Pipelind Phone amentioned above       Pipelind Phone amentioned above     Pipelind Phone amentioned above     Pipelind Phone Amentioned amentioned above       Pipelind Phone amentioned above     Pipelind Phone Amentioned above     Pipelind Phone Amentioned above       Pipelind Phone Amentioned Amenti	
F     Supply of Avalage phoses having following fo	
Image: Supply of Analog phones having following features(Before procurement of this item, the contractor shall have necessary approval a gravity. from ISCCClem.       iPS ADME Compatible Caller J       iPS ADME Compatible Caller J       iB Digit LCD wight Digit       30 Incoming Memory       30 Incoming Memory       31 Read Win You, Date and Month digits       32 Conversion Time Display (Approx).       33 Experiment of the State J       34 Display Conversion Time Display (Approx).       35 Outping Memory       36 State J       37 Experiment of the State J       38 Display Conversion Time Display (Approx).       39 State J       30 Display Conversion Time Display (Approx).       35 Outping Memory       36 State J       37 Experiment of the State J       38 Display Conversion Time Display (Approx).       39 State J       30 Display Conversion Time Display (Approx).       36 State J       37 State J       38 Display Conversion Time Display (Approx).       39 State J       39 State J       30 Display Conversion Time Display (Approx).       36 State J       37 State J       38 Display Conversion Time Display (Approx).       39 Display Conversion Time Display (Approx).       30 Display Conversion Time Display (Approx).       30 Display Conversion Time Display (Approx).	
in paperoal approval of guardity from HSCCCRet.     intervention       iPicKOMF Compatibility Caller 4I     intervention       iDept LCD braight Display     intervention       30 Incoming Memory     intervention       30 Option Memory     intervention       Real Time Cock with Year, Date and Month display     intervention       6 Step LCD Contrast Adjustable     intervention       30 Digits Reliancy     intervention       6 Step LCD Contrast Adjustable     intervention       30 Digits Reliand Memory     intervention       30 Digits Reliand Memory     intervention       4 Bob Digits Reliand Memory     intervention       4 Bob Digits Reliand Memory     intervention       4 Bob Digits Reliand Memory     intervention       4 Bob Digits Reliand Memory     intervention	
16 Digit LCD Contrast Adjustable       36 Jacoming Memory       37 Jacoming Memory       38 Latt Time Clock with Year, Data and Menth display       39 Latt Time Clock with Year, Data and Menth display       30 Exp LCD Contrast Adjustable       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory       36 Digits Relial Memory	
30 Incoming Memory	
5 Outgoing Memory     Real Time Check with Year, Date and Month display       Real Time Check with Year, Date and Month display     Conversation Time Display (Approx.)       6 Step LCD Contrast Adjustable     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable       36 Digits Relial Memory     Converse Adjustable	
Beal Time Check with Year, Date and Menth display        Concreasion Time Display (Approt.)        6 Step LCD Contrast Algoritable        15 Digits Redial Memory        4 Auto Piter Local Area Colore up 5-digit        5 Red Time & Date in Mich Model	
Conversation Tase Disply (Approx.)       6 Step LCD Contrast Adjustable       36 Diges Kolina Menory       36 Diges Kolina Menory       Anso Filter Local Across Coline y to 5-digit       Real time & Data in McColine	
6 Step LCD Contrast Adjustable     6       36 Digits Reliaf Memory     6       Auto Filter Local area Code up to 5-digit     6       Real time & Date in Idle Monde     6	
Auto Filter Local Area Code up to 5-digit Real time & Date in Idle Mode	
Real time & Date in Idle Mode	
Set 100	
G Supply of Analog phones Without display having following features : Pube or tune Daling 3 repertory Keys, 10 Speed!	
G Supply of Analog phones Without display having following features ; Plake or tune Dailing 3 repertory Keys, 10 Speed     Dailing Number, Last Number redial. Manual Pause, Adjustable shown of this item, the     contractor shull have necessary approval approval of quantity from HSCC/Elent.	
Set 459	
TOTAL SUBHEAD 18: TELEPHONE SYSTEM AS MENTIONED ABOVE	
SUBHEAD II: CONDUITING FOR COMPUTER SYSTEM. 1L00 CONDUITING FOR COMPUTER SYSTEM.	
11.01 Supply and fixing of following sizes of MS conduit along with the accessories in surfacebrecess including painting in case	
of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required	
1         20 nm da         Main         1749           1         25 nm da         Main         5850	
11.02     Supplying and fixing two module module plate in recess thish mounted with clear acrylic cover (suitable for KI-45 computer socket) with GI box complete as required.     Each     1166	
TOTAL SUBHEAD: II CONDUITING FOR COMPUTER SYSTEM AS MENTIONED ABOVE	
SUB BIAD 22 CONUTING FOR TY OUTLES L200 CONUTING FOR TY OUTLES L200 CONUTING FOR TY OUTLES	
12.09 CONDUITING FOR TV OUTLETS	
12.01 Supply and fixing of following sizes of MS conduit along with the accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required	
fof surface conduit, or cutting the wall and making good the same in case of recessed conduit as required	
1 20 mm da	
12.02 Supplying and fixing 2 modular metal box in recess flash mounted with clear acylic cover with modular cover plate including fixing 1 no. coaxial TV outlet connection and all accessories complete as required	
Each 126	
12.03 Skepply and draving CoxikiTV Calle KG - 6 grade, Ch 7 mm while copper conductor PE multitude, shellded with fined the start opper braid and protected with PC to them in the esting metric/veccoss data (PV Conduit as varied).	
Metre 5940	
TOTAL SUB HEAD 12: CONDUTING FOR TV OUTLETS AS MENTIONED ABOVE	
SUBHEAD 13: ADDRESSABLE FIRE ALARM SYSTEM	
13.00 ADDRESSABLE FIRE ALARM SYSTEM	
Stepply, Institution, toting and commissioning of macroprocessor based addresseds type networksholds 'rec Direction & A Addressed based addressed addressed based addressed based addressed based addressed based addressed addressed based addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addres	
Alarm Panel complete with inbuilt power supply, battery charger with SMF batteries for minimum 24 hours back-up. The panel shall have a communication module and H1485 network card. The panel should have rectifier, loop card,	
minimum 80 character LCD unit to indicate firef fault signals with address including external internal primer port etc. 100 complete a per techniquement of local Fire Authorizy and as required.	
1 i llag	
III         0 LMP         Nos.         2	
	i

S.No.	Description.	Unit.	Quantity	Rate in Figures	(in Rs.)	Rate in Words	Amount in Figures ( Rs.)
13.02	Supply, installation, testing and commissioning of Networkable & Microprocessor based 640 - characters LCD/ Touch Screen LCD Display Network Repeator panel. The LCD shall display all events/ detectors, devices status of complete						(
	Screen LCD Display Network Repeator panel. The LCD shall display all events' detectors, devices status of complete systems in the networked, The repeator shall be equipped with Mounting options etc. (UL Approved).						
		Nos.	2				
	Supply, installation, testing and commissioning of Automatic Analog addressable Photo - Thermal multicriteria detector with mounting Base, alarm LED. The Detector shall have automatic Electronic/ dip switch addressing feature , complete						
13.02	with the GI Mounting Box and the hardware etc. as required. (UL Approved)						
+		Nos.	460				
+	Supply, installation, testing and commissioning of Automatic Analog addressable Photoelectric smoke detector with mounting Base, alarm LED shall be viewable from 360 degrees. The Detector shall have automatic Electronic/ dip						
13.03	switch addressing feature , complete with the GI Mounting Box and the hardware etc. as required. (UL Approved).						
+		Nos.	930				
	Supply, installation, testing and commissioning of Automatic Analog addressable Fixed Temperature cum rate of Rise type Heat detector with mounting Base, alarm LED shall be viewable from 360 degrees. The Detector shall have						
13.04	automatic Electronic/ dip switch addressing feature, complete with the GI Mounting Box and the hardware etc. as required. (UL Approved).						
		Nos.	90				
	Supply, installation, testing and commissioning of Automatic Analog addressable Duct Detector with Duct Housing and						
	Duct probe tubes complete with Photoeleric smoke Detector with mounting Base. Jacre LED shall be viewable from 360 degrees. The Detector shall have automatic Electronic/ dip switch addressing feature , complete with the G1						
13.05	Mounting Box and the hardware etc. as required. (UL Approved).						
		Nos.	12				
	Supply, installation, testing and commissioning of Automatic Addressable control module for AHU & Stair Pressurization fan, The Module shall have automatic Electronic addressing feature & each of these shall be equipped						
13.06	Pressurization fan, The Module shall have automatic Electronic addressing feature & each of these shall be equipped with fault Isolator complete with the GI Mounting Box and the hardware etc. as required. (UL Approved).						
		Nos.	12				
	Supply, installation, testing and commissioning of Automatic Addressable Monitor module for Flow Switch Monitoring etc. The Module shall have automatic Electronic/ dip switch addressing feature, complete with the Gl Mounting Box and						
13.07	the hardware etc. as required. (UL Approved).	Nos.	12				
	Supply, installation, testing and commissioning of Dual LED Response indicator for indicating the activation of the		12				
13.08	Supply, installation, testing and commissioning of Dual LED Response indicator for indicating the activation of the Remotely located Detector.	Nos.	490				
	Supply, installation, testing and commissioning of Addressable Manual call Station. The Call Point shall have automatic Electronic/ dip Swich addressing feature, complete with the Mounting Box and the hardware etc. as required. (UL						
13.09	Electronic/ dip Swich addressing feature, complete with the Mounting Box and the hardware etc. as required. (UL Approved).						
		Nos.	62				
	Supply, installation, testing and commissioning of Addressable electronic Sounder. The Sounder shall have automatic Electronic/ dip switch addressing feature ,complete with the Mounting Box and the hardware etc. as required. The						
13.10	Sounders shall be Loop powered i.e. should not require additional cable to feed the Power & shall be programmable from the Fire Panel for Multiple type of tones selection. (UL Approved).						
		Nos.	62				
+	Supply, installation, testing and commissioning of Addressable electronic Sounder with Optical Beacon. The unit shall						
	have automatic Electronic addressing/ dip switch feature,complete with the Mounting Box and the hardware etc. as required. The unit shall be Loop powered i.e. should not require additional cable to feed the Power & shall be						
13.11	programmable from the Fire Panel for Multiple type of tones selection. (UL Approved).						
		Nos.	19				
13.12	Sumh, institution torting and communications of full derive file. Colored with Dark measure with						
15.12	Supply, installation, testing and commissioning of full duplex Fire Fighter's talk Back system with operator command centre and sufficient no. of point . The full duplex emergency communication system shall be able to display customized address of the location from which the Call is being made to the Fire Fighter's command centre.						
		Nos.	3				
13.13	Supply, installation, testing and commissioning of Addressable Fire Fighter's Telephone Jack for full duplex emergency						
	communication with the Fire Fighter's command Centre.	Nos.	18				
13.14	Supply, installation, testing and commissioning of 2 way communication Fire Fighter's Handset complete with suitable leads for insersion.	Nos.	18				
	Supply and laying of following size of MS Conduit pipe in recess including all accessories MS pull/ junction boxes, GI	INUS.	10				
13.15	Supply and laying of following size of MS Conduit pipe in recess including all accessories MS pull/ junction boxes, GI fish wire of 6 SWG, fixing hardware etc., including cutting, chasing the walls/ floor and plastering the chased portion and making good the damages etc., complete as required.						
+	1 25 mm dia 11 32 mm dia	Meter Meter	10200 400				
13.16	Supply and drawing of 2C x 1.5 Sq.mm. Sheathed anneled flexible copper Conductor FRLS cable in existing M. S.						
	Conduit, Complete with termination and testing as per requirement.	Meter	11800				
13.17	Supply and drawing of 4C x 1.5 Sq.mm. anneled flexible copper Conductor, Copper breaded shielding and overall						
	Sheathed FRLS cable in existing MS Conduit, Complete with termination and testing as per requirement.	Meter	550				
		Meter	550			•	

S.No.	Description. Unit	Quantity	Rate in Figures (in Rs.)	Kate in Words	Amount in Figures ( Rs.)
	CONVENTIONAL (MICROPROCESSOR BASED SYSTEM)				
13.18	Supply Installation Testing & Commissioning of Main fire alarm nanal of 6 Zone microcontroller based with its own				
1.510	Supply, Installation, Testing & Commissioning of Main free airm panel of 6 Zone microcontroller based with its oven fire dutection zene interface care for longing devices, power supply & Batturey Charger, with LED for fault / isolate / free airms condition, short, open condition The batteries shall be sufficient for 30 Mins, in alarm Condition and 45 Mins in normal condition.				
	Nos	4			
13.19	Supply, installation, testing & commissioning of MANUAL CALL POINT complete with UPVC box duly painted in red				
	colour including connections etc. Nos	26			
13.20	Supply, Installation, testing & commissioning of Hooter Cum Speaker with 24 volt circuit complete as required Nos.	x			
13.21	Nos. Supply, Installation, testing & commissioning of Optical smoke detector with mounting base complete as required	26			
13.21	Supply, instantation, testing & commissioning of Optical sinoke detector with mounting base complete as required Nos.	5			
	TOTAL SUB HEAD 13: ADDRESSABLE FIRE ALARM SYSTEM as mentioned above				
	SUB HEAD 14: PUBLIC ADDRESS SYSTEM		+		
14.00	PUBLIC ADDRESS SYSTEM PUBLIC ADDRESS SYSTEM				
14.01	Supply, Installation, Testing and Commissioning of IP based PA Controller capable of handling 8 zones, Digital audio controller complying to IEC EN 60849 with built-in high and low pass filters and parametric equalizer. With in built 500				
	W digital amplifier and 8 Outputs Led Indication of each zone independent output control button and volume control. Network input, BGM input, local emergency Mic input, can work with One Extra stand by amplifier, when the inbult amplifier come out faulty the standby amplifier takes over automatically. Support 24 V DC input interface.				
	Set	2			
14.02	Supply, Installation, Testing and Commissioning of Power Ampilier Power Amplifier SCPA500/70V, 100 V & 4-16 ohm, 2 channel power amplifier				
	Inrush restraint and softstart		<u> </u>		
	Integrated electronic protection against thermal overload and short circuit. Temperature controlled fans, airflow from front to rear.				
	I'emperature controlled fans, airflow from front to rear.     Method of control: Class D				
	Power output of amplifier: 1 x 500W sin. /100V				
	_ Output range: 50 Hz - 22kHz; 0/-0,5 dB				
	Signal to noise ratio (not valuated): > 105 dB Channel senaration: > 75 dB				
+-	THD (total harmonic distortion): < 0.08%		+		
	Input level at max. output voltage: 0 dBu				
	The amplifier has to be switched into Stand-by Mode in case of power loss by the control centre.				
	POWER AMPLIFIER as mentioned above Set	3			
14.03	Supply, Installation, Testing and Commissioning of DIGITAL CALL STATION 8 ZONE				
	Fully digital call station with electret microphone (cardioid-characteristics) on flexible 300 mm swan neck complete with wideband loudspeaker for monitoring, pre-listen and intercom operation for the networked PA system.				
	Permanent inaudible supervision of the microphone and its capsule in accordance to EN 60849.		 		
	. 16 free programmable and label able keys.				
	DIGITAL CALL STATION 8 ZONE as mentioned above Set	2			
14.04	Supply, Installation, Testing & Commissionig of Volume Controller for all the closed areas.	15			
14.05	Supply, Installation, Testing & Commissionig of 6 W, transformer tapping 100 volt line multitap, driver impedance 8				
	ohm, SPL @ 1m, 1 Watt.(Ceiling speaker) Each	155			
14.06	Supply, Installation, Testing and Commissioning of Wall mountable type column type Speaker 6 watt, SPL 90 dB, Freq				
	response 200-15000 Hz, rated input voltage 100 Volts & rated impedance 1667 Ohms. Each	20			
14.07	Supply, Installation, Testing & Commissionig of Music source CD/ MP3 Player I U table top and rack mount clearly visible LCD display, micro computer and touch button operation complete as required.	-			
	Eact	2			
14.08	Supply and drawing of 2 x 1.5 sqmm ATC Copper conductor cable/ wire in existing MS Conduit, Complete with termination and testing as per requirement. Metro	3600			
14.09	Supply and fixing of following sizes of MS conduit along with the accessories in surface/ recess including painting in				
	case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required				
	i 25 mm dia Metr	24000			
14.10	Supply, installation, testing and commissioning of 19" Equipment Rack with power coated finish with front lockable				
	Door with MS Framed translucent Acrylic material, 2 Nos of fans for heat exhaust, Top & Bottom entry knock outs, back side lockable Door, inbuilt MCB, Power Points, raceways and partitions, one no. sliding Tray etc. complete as recauted				
	Each	2			
	TOTAL SUB HEAD 14: PUBLIC ADDRESS SYSTEM as mentioned above				
			<u>+</u>		
·			·	ii	

T		Ť			1	Amount in Figures
S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	( Rs.)
+	SUB HEAD 15: CCTV SURVEILLANCE SYSTEM	†				
15.00	CCTV SURVEILLANCE SYSTEM					
15.01	Supply, Installation, Testing and Commissioning of Day/ night fixed dome with a discreet, dust and IK rated vandal-					
	resistant indoor casing. Varifocal 2.8-10 mm P-Iris lens, remote focus and zoom. Multiple, individually configurable H.264 and Motion JPEG streams; max HDTV 720p or 1 MP resolution at 30 fps. WDR more than 70dB.Video motion					
	detection and active tampering alarm. Memory card slot for optional local video storage. Power over Ethernet. Includes mounting bracket for wall/ ceiling or junction boxes.					
		Nos.	5			
15.02	Supply, Installation, Testing and Commissioning of Ultra-compact, indoor fixed mini dome with dust and vandal- resistant casing for easy mounting on wall or ceiling. Fixed lens. Multiple, individually configurable H.264 and Motion					
	JPEG streams; max HDTV 720p or 1 MP resolution at 30 fps. MicroSD/ microSDHC memory card slot for optional					
	local video storage. Video motion detection and active tampering alarm. Comes with a 2 m (6.6 ft.) network cable and is powered using Power over Ethernet.					
		Nos.	30			
15.03	Supply, Installation, Testing and Commissioning of Intel Xeon Processor E5-2609 v3, 1.90 GHz, 15MB Cache,					
15.05	Supply, instantion, Testing and Commissioning of met Acon Processor Ds 2009 V5, 1-90 VHZ, 15MB Cache, Memory: 8GB (2 x 4GB), storage: 16TB usable after RAID, HDD speed of 7200 rpm, 64MB Cache, SATA 6Gb/s interface, RAID 5 Hotpluggable, RAID controller: PERC H730, 1GB NV, Graphics Matrox 200 eR, recording Shall					
	support recording up to 64 video channels with a total recording rate up to 256 Mbit per second, software Compatible					
	with Cameras, Encoders including HD, Standard resolution, High Resolution, Pant Tilt, Zoom, Thermal, Cameras, playback upto 64x or frame by frame upto 25 cameras synchronized playback, power supply Dual, Hot-plug, Redundant					
	Power Supply, 495 W, AXIS S1048, connector 4 x USB 2.0, 2 x VGA, Serial port (DB9), 4 x Ethernet (RJ45), 2 x Power inlet complete as required.					
	rower met compete as required.					
		Nos.	1			
15.04	Supply, Installation, Testing and Commissioning of Client system with processor Intel i5-4570S 2:90 GHz, memory 4 GB DDR3-SDRAM PC3-12800 (800 MHz) - [DDR3-1600] storage 500 GB, 7200 rpm HDD with 64 MB cache and	+				
	SATA 6Gb/s interface, graphics AMD Radeon R5 A240 1 GB DDR3 with DVD-RW.NETWORK CARD Integrated					
	Intel I217LM Ethernet LAN 10/ 100/ 1000 Mbit Live VIDEO stream Minimum Support for resolutions upto 5 Mpixel upto 15 fps or 3MP upto 20 fps or 2MP upto 25 fps, client software Compatible for all cameras, encoders, PTZ					
	Cameras, Thermal Cameras, 6 x USB 2.0, 4 x USB 3.0, 3 x Display Port, 1 x VGA, 1 x Dual link DVI-I, AXIS S					
	9001, Network connector, Line-in/ out connectors, Computer mouse and keyboard connectors with two display monitor output with Mouse, Keyboard USB Type complete as required.					
		Nos.				
			1			
15.05	CCTV COLOR MONITOR Supply, installation, testing & commissioning of 32" Flat LED Color Monitors.					
		Nos.	2			
15.06	ETHERNET SWITCHES I Supply, installation, testing & commissioning of PoE Layer II Managed Ethernet switch: 16 port RJ45 10 base 100 T					
	with 2 Fibre Ports.	Nos.	8			
	ii Supply, installation & testing of Layer III Managed Ethernet switch: 24 port RJ45 10 base 1000T with 2-Fibre Ports	Nos.				
			1			
15.07	19 INCH RACK MOUNT					
	<ol> <li>Supply, installation, testing &amp; commissioning of 19 inck rack mount console unit - 42 U with 4 cooling fans on top and bottom at control room.</li> </ol>	Nos.	1			
	II Supply, installation, testing & commissioning of 19 inch rack mount console unit - 6 U for Layer 2 switches on field.	Nos.	_			
	iii Any other network equipment like Patch Chords, Patch Panels, Jack Panels, Splicing and LIU required for successful	+	8			
	operation.	Lot				
15.08	Supply, laying & testing of Cat 5/6 UTP cable with all termination crimping etc.	Metre	2000			
15.09	Supply, laying & testing of 2 x 1.5 sqmm Power Cable for powering all the SWITCHES .					
		Metre	200			
15.10	Supply and fixing of following sizes of MS conduit along with the accessories in surface/ recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required					
	i 25 mm dia	Metre	1800			
15.11	Supply, installation, testing and commissioning of 2 kVA UPS with batteries 30minutes backup etc. complete in ready					
	to use condition	SET	1			
	TOTAL SUB HEAD 15: CCTV SURVEILLANCE SYSTEM as mentioned above					
	SUB HEAD 16: NURSE CALL SYSTEM					
16.00	NURSE CALL SYSTEM					
16.01	Supply.Installation Testing and Commissioning of Microprocessor controller Nurses station with terminal monitor with					
	in built power supply, with charger enclosed in a powder coated cabinet. Having with Reset, alarm/ buzzer, Call acknowledge with battery back up, battery charger complete system as per technical specifications and as per required of following suitable configuration.nomical complete as required					
	of following suitable configuration.omni call complte as required					
	i 40 Way	Nee				
+	ii 24 Way	Nos.	6			
	iii 16 Way	Nos	4			
	iii 8Way	Nos	2			
16.02	Supply, Installation, Testing & Commissioning of Bed Call Push Button with LED indication and Flexiable Cord with button, Call Reset, Call Indication, station for each Bed omni call complete as required.					
		Nos	200			
16.03	Supply, Installation, Testing & Commissioning of Toilet Call Push Button with LED indication and flexiable cord with					
16.03	Supply, Installation, Testing & Commissioning of Toilet Call Push Button with LED indication and flexiable cord with button, Call Reset, Call Indication, station for each Bed omni call complete as required.					
		Nos.	50			j

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S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	Amount in Figures ( Rs.)
16.04	Supply, Installation, Testing & Commissioning of LED Indicators Module at Outside of each ward omnicall complete as required.	Nos	36			
		INOS	.30			
16.05	Supply, laying and testing of 6C X 0.5 Sqmm diameter multistand copper conductor PVC cable in existing MS/ PVC Conduit on recessed/ surface with all accessories complete as required					
	Contain on recession surface with an accessories complete as required	Meter	3500			
16.06	Supply, laying and testing of 2C X 0.5 Sqmm diameter multistand copper conductor PVC cable in existing MS/ PVC					
10.00	Suppy, laying and lesting of 2C X 0.5 Sqmin dameter multistand copper conductor PVC cable in existing MS/ PVC. Conduit on recessed/ surface with all accessories complete as required					
		Meter	1000			
16.07	Supply and fixing of following sizes of Medium Class FRSL PVC conduit along with the accessories in surface/ recess					
	including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required					
1	25 mm dia	Meter	500			
16.08	Supply and fixing of following sizes of MS conduit along with the accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required					
	of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required					
	25 mm dia	Meter	3000			
	TOTAL SUB HEAD 16: NURSE CALL SYSTEM AS MENTIONED ABOVE		ļ]			
	SUBHEAD 17: INVERTER		<u> </u>			
17.01	Supply, installation, testing and commissioning of 2 kVA inverter with batteries 30minutes backup etc. complete in					
17.01	Supply, installation, testing and commissioning of 2 kVA inverter with batteries sominutes backup etc. complete in ready to use condition. Make Sukam, Microtek & Luminous	SET	1			
·	TOTAL SUB HEAD 17: INVERTER AS MENTIONED ABOVE		<u> </u>			
			+			
18.00	SUB HEAD 18: LIFTS LIFTS		ļ			
18.00	Design, manufacture, supply, installation, testing and commissioning of following 20 passenger cum hospital (1360 kg)		++			
	lift, serving different floors in the lift shaft including machine room at the top. The lift should be as per detailed specification/ drawing enclosed as required and as under:					
	Speed : 1 MPS Travel: As per architectural drawing.		<u> </u>			
	Controller: A.C. variable voltage & variable frequency		+			
-	Automatic rescue device complete with dry maintenance free batteries as required.					
-	Automatic rescue device complete with dry maintenance tree batteries as required. Operation: Microprocessor based single automatic push batton/ simplex selective collective/duplex collective selective with / withbut attendant.					
	415 V, 3 phase, 50 Hz, 4 wire system					
-	Type of doors: a) Car : Power operated, Telescopic opening,, horizontal sliding stainless steel scratch proof. (b) Landing					
	doors: Stainless steel scratch proof. Lift landing doors shall have a fire resistance of one hour.					
	All push buttons will have Brail also.					
-	Car Enclosure : Scratch proof stainless steel finish.					
	A hand rail guide not less than 600 mm long at 900 mm above floor level . Mirror of suitable size to be fixed inside the lift car.					
	Voice announcement system in the car to announce the position of the elevator in the hoistway as the car passes or stops		+			
	at a floor served by the elevator. Telephone with minimum two connections one at operator's room and other at guard/security room and the emergency					
	signal with re-chargeable batteries as source of supply be made in the lift car.					
	Toe guard, IR curtain on full height, two phase fireman's drive control/ switch and potential free contacts etc to be		<u> </u>			
	provided.	ļ				
	Floors : -1+G+7, ( 9 stops & 9 openings) Floors : G+5, ( 6 stops & 6 openings)	Each	3			
		Each	1			
	Passenger cum hospital Lift as mentioned above					
18.02	Supply, Fixing, Testing and Commissioning of <b>Dumb Waiter of Capacity 100kgs</b> . Complete as required. Fabrication in M.S finish					
-	Speed : 0.5 MPS	]				
	Floors : G+7 ( 3 stops & 3 openings) (at First, Sixth & Seventh Floor)	Each	2			
ļ	Dumb Waiter as mentioned above		ļ]			
10.05			ļ			
18.03	Design, manufacture, supply, installation, testing and commissioning of following 13 passenger (884 kg) lift, serving different floors in the lift shaft including machine room at top. Lift should be Gear less with speed of 1 MPS The lift					
	should be as per detailed specification/ drawing enclosed as required and as under:					
<b> </b>	Tennal: An and architectural domine		ļ			
	Travel: As per architectural drawing. Speed : 1 MPS		<u> </u>			
	Speed: 11 MPS Controller A.C. variable voltage & variable frequency Automitic rescue device complete with dry maintenance free batteries as required. Operation, Meroprocessor based ising automatic pub huttor/ simplex selective collective/duplex collective selective		+			
-	Operation: Microprocessor based single automatic push button/ simplex selective collective/duplex collective selective with / without attendant.					
	415 V, 3 phase, 50 Hz, 4 wire system		<u> </u>			
	Type of doors: a) Car : Power operated, Centre opening, horizontal sliding stainless steel scratch proof finish (b)		†			
	Landing doors: Stainless steel scratch proof finish. Lift landing doors shall have a fire resistance of one hour.					
	Car Enclosure : Scratch proof finish stainless steel					
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S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	Amount in Figures ( Rs.)
	All such buttone will have Real size		<b>+</b>			(
	All push buttons will have Brail also. A hand rail guide not less than 600 mm long at 900 mm above floor level .		+			
	Mirror of suitable size to be fixed inside the lift car.					
	Voice announcement system in the car to announce the position of the elevator in the hoistway as the car passes or stops		+			
	at a floor served by the elevator.					
	Telephone with minimum two connections one at operator's room and other at guard/ security room and the emergency		+			
	signal with re-chargeable batteries as source of supply be made in the lift car.					
			Ļ			
-	IR curtain on full height, two phase fireman's drive control/ switch and potential free contacts etc to be provided.					
	Floors : G+6, (7 stops & 7 openings)					
	Floors : G+6, (8 stops & 8 openings)	Each	2			
	Floors : G+6, ( 8 stops & 8 openings)	Each	2			
18.03	Design, manufacture, supply, installation, testing and commissioning of following 10 passenger (680 kg) lift, serving different floors in the lift shaft including machine room at top. Lift should be Gear less with speed of 1 MPS The lift					
	should be as per detailed specification/ drawing enclosed as required and as under:					
+	Travel: As per architectural drawing.		+			
	Speed : 1 MFS Controller A.C. variable voltage & variable frequency Automatic receve device complete with dry maintenance (ne batteries as required. Operation: Microprocessor based single automatic pash battou/ simplex selective collective/daplex collective selective		÷			
	Automatic rescue device complete with dry maintenance free batteries as required.		<u> </u>			
-	Operation: Microprocessor based single automatic push button/ simplex selective collective/duplex collective selective with / without attendant.		7			
	415 V, 3 phase, 50 Hz, 4 wire system		+			
	415 V. 5 prase, 50 frz, 4 wire system Type of doors: a) Car : Power operated, Centre opening, horizontal sliding stainless steel scratch proof finish (b)		÷			
	Landing doors: Stainless steel scratch proof finish. Lift landing doors shall have a fire resistance of one hour.		1			
	Car Enclosure : Scratch proof finish stainless steel		ļ			
	All push buttons will have Brail also. A hand rail guide not less than 600 mm long at 900 mm above floor level .		+			
	Mirror of suitable size to be fixed inside the lift car.		+			
	Voice announcement system in the car to announce the position of the elevator in the hoistway as the car passes or stops		<u> </u>			
	at a floor served by the elevator.					
	Telephone with minimum two connections one at operator's room and other at guard/ security room and the emergency		+			
	signal with re-chargeable batteries as source of supply be made in the lift car.					
			ļ			
-	IR curtain on full height, two phase fireman's drive control/ switch and potential free contacts etc to be provided.					
	Floors : G+6, (7 stops & 7 openings)		ļ			
	Floors : G+5, (6 stops & 6 openings)	Each	4			
	Floors : G+5, ( 6 stops & 6 openings)	Each	1			
18.04	Design, manufacture, supply, installation, testing and commissioning of goods lift of 1500 Kg, serving different floors in the existing lift shaft including lift well pressurization. The lift should be as per detailed specification/ drawing					
	enclosed as required and as under:					
	Speed : 0.5 MPS					
	Travel: As per architectural drawing.					
	Controller: A.C. variable voltage & variable frequency		T			
	Automatic rescue device complete with dry maintenance free batteries as required.		T			
	All push buttons will have Brail also.					
	Operation: Microprocessor based single automatic push button/ simplex selective collective/with / without attendant.		†			
	415 V, 3 phase, 50 Hz, 4 wire system					
	Type of doors: a) Car : Power operated, central opening horizontal sliding M.S finish (b) Landing doors: M.S finish.		T			
			<u> </u>			
	Voice announcement system in the car to announce the position of the elevator in the hoistway as the car passes or stops at a floor served by the elevator.					
			<u> </u>			
	IR curtain on full height, fireman's switch and potential free contacts etc to be provided in the lift.					
	Floors : G+5, ( 6 stops & 6 openings)	P - 1	1			
	Floors : -3+-2 +-1+G+6, ( 10 stops & 10 openings)	Each Each				
		Each	+		h	
18.05	Design, manufacture, supply, installation, testing and commissioning of following 8 passenger (544 kg) lift, serving		<u> </u>			
	different floors in the lift shaft including machine room at top. Lift should be Gear less with speed of 1 MPS The lift					
	should be as per detailed specification/ drawing enclosed as required and as under:					
	Travel: As per architectural drawing.		<u> </u>			
	Speed : IMPS		‡			
	Speed : IMPS Controller AC: variable voltage & variable frequency Automatic rescue device complete with dry maintenance free batteries as required. Operation: Microprocessor based ingle automatic pauls buttord' simplex selective collective/daplex collective selective		+			
	Operation: Microprocessor based single automatic push button/ simplex selective collective/duplex collective selective		1			
	with / without attendant. 415 V 3 phase 50 Hz 4 wire system		+			
- 1	Type of doors: a) Car : Power operated, Centre opening, horizontal sliding stainless steel scratch proof finish (b)		†			
	Landing doors: Stainless steel scratch proof finish. Lift landing doors shall have a fire resistance of one hour.					
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S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	Amount in Figures ( Rs.)
	Car Enclosure : Scratch proof stainless steel finish					( RS.)
1 1 1						
	All push buttons will have Brail also.					
	A hand rail guide not less than 600 mm long at 900 mm above floor level . Mirror of suitable size to be fixed inside the lift car.					+
	Voice announcement system in the car to announce the position of the elevator in the hoistway as the car passes or stops					
	at a floor served by the elevator.					
-	Telephone with minimum two connections one at operator's room and other at guard/ security room and the emergency					
	signal with re-chargeable batteries as source of supply be made in the lift car.					
	IR curtain on full height, two phase fireman's drive control/ switch and potential free contacts etc to be provided.	+-				+
		ļ				
1	Floors : G+5, ( 6 stops & 6 openings)	Each	2			
	TOTAL SUB HEAD 18: LIFTS AS MENTIONED ABOVE					
	SUB HEAD 19: LT CABLES					
19.00	SUB HEAD 19: LT CABLES LT CABLES					
19.01	LT CABLES Supply of following sizes of 1.1 kV grade multicore aluminium conductor PVC sheathed armoured XLPE cable as per Is 7098.					
	3.5 Core 25 Sqmm.	Metre	1600			
	3.5 Core 35 Samm.		200			
, III	3.5 Core 50 Sqmm.	Metre	1450			
iv v	3.5 Core 70 Sqmm. 3.5 Core 95 Sqmm.	Metre	720			<u> </u>
vi	3.5 Core 39 Sqmm.	Metre Metre	1820 700			<u>+</u>
vii	3.5 Core 150 Sqmm.	Metre	300			
	3.5 Core 185Sqmm.	Metre	1040			
ix	3.5 Core 240 Sqmm. 3.5 Core 300 Sqmm.	Metre	400			<u> </u>
xi	3.5 Core 300 Sqnm. 3.5 Core 400 Sqnm.	Metre Metre	7000 600			<u> </u>
xii	4 Core 16 Sq mm	Metre	900			
xiii	4 Core 10Sq mm	Metre	300			
xiv	4 Core 6 Sq mm 3 Core 6 Sqnm.		300			
xv xvi	3 Core 4 Sqmm.	Metre	200 200			
xvii	2 Core 10 Sq mm		2000			
xviii	2 Core 16 Sq mm	Metre	1600			
19.02	aving of any number BVC insulated and BVC shorthad power solds 1.11-V ands direct in around including					<b> </b>
19.02	Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required					
	Up to 35 sq.mm Above 35 Sq mm and upto 95 Sq mm		4970 1659			÷
	Above 95 Sq mm and up to 185 Sq mm		1974			
iv	Above 185 Sq mm and up to 400 Sq mm		6328			
19.03	Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade direct in the existing RCC/ Hume/Stoneware/Metal pipe as required					
		İ				
	Up to 35 sq.mm Above 35 Sq mm and upto 95 Sq mm	Metre	1065			
	Above 55 Sq mm and upto 95 Sq mm Above 95 Sq mm and up to 185 Sq mm		356 423			<u> </u>
iv	Above 185 Sq mm and up to 400 Sq mm	Metre	1358			
19.04	Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade on surface or on existing cable tray complete as required.	T				
	Up to 35 sq.mm	Marrie	10/2			÷
ii ii	Above 35 Sq mm and upto 95 Sq mm		1065 356			+
	Above 95 Sq mm and up to 185 Sq mm	Metre	425			
iv	Above 185 Sq mm and up to 400 Sq mm	Metre	1358			·
19.05	Supplying and making end termination with suitable size Aluminium lugs including double compression plands of					
	Supplying and making end termination with suitable size Aluminium lugs including double compression glands of following sizes of 1.1 kV grade multicore aluminium conductor PVC insulated and PVC sheathed					
i u	3.5 Core 25 Sqnm. 3.5 Core 35 Sqnm.	Each	120			<u> </u>
	3.5 Core 50 Sqnm.	Each Each	20 70			<u>+</u>
iv	3.5 Core 70 Sqmm.	Each	50			<u> </u>
v	3.5 Core 95 Sqmm.	Each	70			
vi vii	3.5 Core 120 Sqmm. 3.5 Core 150 Sqmm.	Each	50 50			
viii	3.5 Core 185Sqmm.	Each Each	50 40			
ix	3.5 Core 240 Sqmm.	Each	20			
x	3.5 Core 300 Sqmm. 3.5 Core 400 Sqmm.	Each	170			
xii	4 Core 16 Sq mm	Each	30 90			<u>+</u>
xiii	4 Core 10Sq mm		90 50			
xiv	4 Core 6 Sq mm	Each	50			
xv	3 Core 6 Sqmm. 3 Core 4 Sqmm.	Each	40			
xvi xvii	3 Core 4 Sqmm. 2 Core 10 Sq mm	Each Each	40 80			<b> </b>
	2 Core 16 Sq mm	Each Each	80 90			<u> </u>

S.No.	Description.	Unit.	Quantity	Rate in Figures (i	in Rs.)	Rate in Words	Amount in Figures ( Rs.)
19.06	Supply and laying of 'Plexiable Industrial cable, Copper Conductor', FR PVC' insulated 1100 volts conforming to IS 694/1990 or ammended uptodate in fexiabel MS conditit / Pipe ,Complete with termination and testing as per irequirement.						
	1 4 Sqmm 1 6 Sqmm	Metre	100				
	u 6 Sqmm iii 10 Sqmm	Metre Metre	100 100				
	iv 16 Sqmm	Metre	50				
	v 25 Sqmm	Metre	50				
	vi 50 Sqmm	Metre	50				
+	TOTAL SUBHEAD 19: LT CABLES AS MENTIONED ABOVE						
20.00	SUBHEAD 20: EARTHING EARTHING						
20.01	Supply and installation of one number earth pit with advance maintanace from Earthing System consisting of our Number, CPR tested copper bonded scale electrode of minimum <b>25 nm</b> dia. (as per 1E C263-12) With a minimum coating thickness of 250 micross and length of 3 meters, 25 kg/Ekctrode of earth enhancing compound (tested as per IEC-6251-1) filthe 100mm angreen bole surrounding to the electrode, 55 km/esta (Lamp of Size 175X/00X mm for terminal Connection including Poly Propyleae Heavy dury PI cover including all accessories, excavation of earth, filteriminal col (Compound, and earth pit marking. The Complete installation shall be as per the drawing, technical specifications and as required						
+		Set	20				
20.02	Supply and installation of one number earth pit with advance maintanace free Earthing System consisting of our Number, CFR tested copper bonded scale electrode of minimum <b>P um</b> did (so per EC.552-15). With a minimum potating thickness of 250 micross and length of 3 meters. 25 kplFactrode of earth enhancing compound (tested as per EEC.452-16). This is the following access the loss surrounding to the electrode, 552 km/srat/Lump of Size 175X/00X run [for terminal Connection including Poly Propylene Heavy day Plc cover including all accessories , excavation of earth, and earth of the standard of the standard standard standard standard standard standard standard standard specifications and as required		28				
20.03	Steppy and intellificion of one number earth pit with of advance maintainance free 'Earthing System constituing of our Number UL: Lated CPRI tested copper bounded steel detected of minimum JJ and <b>d</b> ia (as pet ECS261-2) with fittested as pet ECS261-7) fills to UOm anagered bole surrounding to the detected. set Starbarcing compound (tested as pet ECS261-7) fills to UOm anagered bole surrounding to the detected. set Starbarcing Later (TS2603) and for terminal Connection including Poly Propylene Heavy daty Pit cover including all accessories , execution of earth, filling with back (III compound, and earth pit marking. The Complete insulation shall be as per the drawing, technical specifications and as required						
		Set	84				
20.04	Supply and installation of one number earth pit with of maintenance free earthing system consulting of 1250 mm long copper bonded setel electrod of minimum <b>13 nm di</b> . Los eds a per IEC 6261-2. Minimum copper cuding thickness for Rod is 100 microns. 5 kg/Electrode of earth enhancing compound tested as per IEC 62561-7 fill the 73-100mm jugared hole surronding to the decircola L consist field fallowing liten roper Atdy chang sailable (PolyPopylendFeary) day Pit cover including all accessories, excavation of earth, filling with back fill compound, and earth pit marking. The Complete installation shall be as per the drawing, technical specifications and as required		8				
20.05	Supplying and laying 25mmX5mm GI strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	400				
20.06	Providing and fixing 25mmX5mm GI strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required.	Metre	2000				
20.07	Supplying and laying 50mmX6mm GI strip at 0.5m below ground level as strip earth electrode, including soldering etc.						
	as required.	Metre	200				
20.08	Providing and fixing 50mmX6mm GI strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required.	Metre	400				
20.09	Providing and fixing25mmX5mm Copper strip on surfaceion existing cable trench/RCC pipe/GI pipe or in recess for surfa electrode as required.	Metre	300				
20.10	Supplying and laying 25mmX5mm Copper strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	150				
20.11	Sumbing and Juning Summ Yomm Conner strings (1.5m) below around local or string and advanted a first diverse below						
20.11	Supplying and laying 50mmX6mm Copper strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	100				
20.12	Providing and fixing 50mmX6mm Copper strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required.	Metre	300				
20.13	Providing and fixing 25 mm X 5 mm corpor strip in 40 mm dia GL pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required	Metre	600				
20.14	Providing and frcing 25 mm X 5 mm GL strip in 40 mm dia GL pipe from earth electrode including connection with G.L nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	800				
20.15	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	600				

r	1		r			71
S.No.	Description.	Unit.	Quantity	Rate in Figures (in Rs.)	Rate in Words	Amount in Figures ( Rs.)
	TOTAL SUBHEAD 20: EARTHING AS MENTIONED ABOVE					
						1
21.00	SUBHEAD 21: LIGHTNING PROTECTION					
	LIGHTNING PROTECTION					<u> </u>
21.01	Supply and institution of one number earth pit with of advance maintranace free. Earthing System consisting of one Number UL: Liade CPRI tested couper bodied steel devicted of minimum JJ modi (as (apr EI CeS/te-12) with institution of the CeS/te-12) with a compound and length of 3 meters. 25 kg/Eactoide of earth enhancing compound fuested as per ECeS/te-17 (and the Ohm anagered bodies unrounding to the deviced. e.S. Universi Clamp of Size (1755X003) mm for terminal Connection including Foly Propylene Heavy day Pit over including all accessories i encavation of earth, filling with back fill compound, and earth pit marking. The Complete installation shall be as per the drawing, technical specifications and as required					
		Set	42			
21.02	Providing and fixing of highering conductor final, mark of Simn. dia. 2006ann. Jong Cl table, having single prong at top, with 85 mm. dia. 6 mm. thick Cl base plate including holes etc. complete as required.	Each	42			
21.03	Providing and and fixing GI tape 20mm X 3 mm thick on parapet or surface of wall for lightning conductor as required.					
	(For horizontal runs).	Metre	2800			
21.04	Providing and and fixing GI tape 20mm X 3 mm thick on parapet or surface of wall for lightning conductor as required.		+			<u> </u>
	(For vertical runs).	Metre	2000			
21.05	Providing and fixing testing joint, made of 20mmX3mm thick GI strip, 125 mm. long, with 4 no.'s of GI bolts, nuts,					
	check nuts, bar shaddles, and spring washers etc. complete as required.	Each	42			
21.06	Providing and laying GI tape, 32 mm X 6 mm thick, from test joint upto earth electrode directly in ground as required.					
		Metre	840			
	TOTAL SUBHEAD 21: LIGHTNING PROTECTION AS MENTIONED ABOVE		1			
			ļ			
22.00	SUBHEAD 22: SOLAR PHOTVOLTAIC POWER GENERATION SOLAR PHOTVOLTAIC POWER GENERATION					
22.01	Surphy, installation, testing and commissioning of grid interactive roof top okler photovoltaie power generation system, including soften models, module monitor structure, grid interactive soften interact, data logger with temperature and irradiance sensor. AC distribution board, multi data meter, cables, contacts, carring lat, GI artips (25 x 5 mm), vertical air terminal and installation kit etc. complete in ready to use condition and as per technical specifications.					
	i 10 KWp	Set	2			
1	ii Extra for providing space frame for above 10KWp solar system.	Set	2			
	TOTAL SUB HEAD 22: SOLAR PHOTVOLTAIC POWER GENERATION AS MENTIONED ABOVE					
	SUBHEAD 23: OUT DOOR LIGHTING					
23.00	OUT DOOR LIGHTING					
23.01	Supply, erection, testing and commissioning of external swaged steel tubular pole with following specifications & items :					
1	9.00 Mtrs. high swaged steel tubular pole with arm length around 1.5 Metre, the construction of the pole shall be as per IS:2713 - 1980 410 SP-30 with base plate 450 x 450 x 6 mm complete as per requirement with two coats of spray paints of approved shade.					
i	90 watts LED street light fixture in die cast aluminum body with 90 watts LED lamp complete with control gear, cover fact, similar to Compton Greeves s LSTN-90-CDL-A or approved equivalent including its wiring with 2X2.5 sq.mm. PVC installach, RELS copper conductor and 1.5 sqmm PVC installach, FRLS copper earth wire from control box complete as required.					
	Suitable size 32 A DP MS Control box with 2 no. incoming and outgoing terminals and 2 nos. tap-out terminal with 6A					
	DP MCB complete as required - 1 Set v Suitable number(s) 40mm dia Class-B GI Pipe(s) from above control box to upto 0.5 metre below ground level for					
r	power cable entry					
`	<ul> <li>Providing foundation including excavation, shuttering, alingment of poles, casting etc. including lean concrete at the bottom as per CPWD/ BIS specifications.</li> </ul>					
v	n The above installations shall be completed as CPWD specifications and as required		+			<u> </u>
а		Set	50			
Б	Steel Tubular Poles (9M) same as above but for Double Arm as mentioned above	Set	20			
23.02	Supply, installation, testing and commissioning of external post top lantern with following accessories and complete as		+			+
	required : 4m high (3.3m above ground) 80mm dia GI pole as approved, adopting socket at top for fixture mentioned below, base		+			
	plate 300 x 300 x 6 mm and provision for mounting junction box etc 1 set.					
1	1 4 40 LED 'Post top lantern with 40W LED lamp (Compton Greeves LPTO-40-CDL or equivalent) and its wiring with 2 x 2.5 sq.mm PVC insulated copper wire and 1.5 sqnm PVC insulated copper earth wire from control box.					
	ii Suitable size 20A DP MS Control box with 2 no. incoming and outgoings terminals and 2 nos. tap-out terminal with 1 nos. 5A HRC fuses complete 1 set.					
P	v Suitable number(s) 40mm dia Class-B GI Pipe(s) from above control box to upto 0.5 metre below ground level for		†			
1	power cable entry Providing 400 x 400 x 1000 mm deep 1:3:6 ratio cement concrete including excavation shuttering alignment of poles		<b>+</b>			ļ
`	casting etc. including 100mm thick lean concrete shall be provided at the bottom					
	Supply, installation, testing and commissioning of external post top lantern as mentioned above	Set	40			<u> </u>

S.No.	Description.	Unit.	Quantity	Rate in Figures (	(in Rs.)	Rate in Words	Amount in Figures ( Rs.)
23.03	Supply, Installation, testing and commissioning of Post top lantern 1 x 40 Waits LED Post top lantern with 40 Wait LED lamp (Compton Greeves LPTO-40-CDL, or equivalent) and its wiring with 2 x 2.5 sq.mm PVC insolated copper wire and 1.5 sqnm PVC insolated copper each wire from control box.						
		set	12				
23.04	Supply, installation, testing and commissioning of bollard lamps 1 x 10 Watts LED Light Fixture (Crompton Greeves						
	LBLS1-10-CDI (LIARA) or equivalent) with control box - 1 set.	Each	50				
i i	ROAD LIGHTING PANEL						
23.05	Supply, installation, testing and commissioning of following outdoor type with canopy, IP-54 protected MV cubick type fotably enclosed, fires standing type, dust, damp and vermin proof, MV Panel, busbars, MV danger notice plata, interconnections with subick capacity administin test/sobial daminism striptovide, connection of incoming and stugging cables with finithes, stove enamelled painted and having following incoming and outgoing switchgarst complete as required.						
A	INCOMER: 100 Amp.415 volts, TP+NL, 35 KA Moulded Case Circuit Breaker with thermal magnetic rolease having variable current settings.						
	R, Y & B phase indicating lamp (LED type) with 2A control SP MCB.		+				
L	ON, OFF, TRIP indication (LED Type)		1				
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.						
	1 Set of timer switch & 100A TP contactor with nuetral link (for street lights control) .		<u> </u>				
В	BUSBARS: 300 Amp TPN Aluminium busbars						
	OUTGOING: 30 Nos. 16 Amp 415 volts, DP MCB		<b> </b>				
1 1	ROAD LIGHTING PANEL AS MENTIONED ABOVE	ę	6				
	J	Set	0				
	Supply and installation of one number earth fift with advance maintannee free Earthing System consisting of one Number, CPRI tested copper bonded steel electrode of minimum 19 mm (dia gas per IE C28561-2) What a minimum, conting thickness of 220 microns and length of 3 meters. 25 kg/Eketrode of earth enhancing compound tested as per IE-C2856-7) fill the 100mm augered holes surrounding to the electrode. 25 Ubreard Clam of Size (T255003) and for terminal Connection including Poly Ponylene Heavy dury Pi evover including all accessories , escavation of earth Hing with bock If the compond, and earth on pit marking. The Complete installation shall be as per the devising technical						
23.06	specifications and as required	Set	14				
23.07	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.						
		Metre	500				
	TOTAL SUB HEAD 23: OUTDOOR LIGHTING AS MENTIONED ABOVE						
24.00	SUBHEAD 24: VIDEO PROJECTION & AUDIO SYSTEM FOR Lecture HallS						
	VIDEO PROJECTION SYSTEM						
24.01	Supphy, installation, testing and commissioning of 5000 ANSI lumens high brightness/WUXGA resolution (220h500),Appet Ratio 16:10 Multimedia Projector Full HD with VGA, HDML video inputs VPLCH375 Male- sony / Hitechif Panasonic	Nos.	4				
24.02	Supply, installation, testing and commissioning of high gain matte white projection screen motorised with remote control						
29.02	Supply, installation, testing and commissioning of high gain matte while projection screen motorsed with remote control unit for easy access in classroom/lecture theater size 12 x 8 ft. make - Imported , Liberty/ draper/dalite						
		Nos.	4				
24.03	Supply, installation, testing and commissioning of 2 in 2 out HDMI spliter Make- Reputed, Bestnet/ MX/Kramer	No					
		NO.	4				
24.04	Supply, installation, testing and commissioning of HDMI Cable 15 meter Make- Reputed Bestnet/MX/KRAMER	No.					
<u> </u>		No.	4				
24.05	Supply, installation, testing and commissioning of LAN extender HDMI over LAN Make- Reputed, Bestnet/ MX/ Kramer	No	4				
		INO.	4				
24.06	Supply, laying & testing of VGA cable 15 meter Make - Reputed Bestnet/MX/ Kramer	Nos.	8				
24.07	Supply, installation, testing and commissioning of Projector ceiling mount kit for Hanging projector MAKE- Customized	Nos.	4				
24.08	Supply, installation, testing and commissioning of projector to PC connection with USB remote Make- Sony/Hitechi/ Parasonic	Nos.	4				
24.09	Supply, installation, testing and commissioning of patch boxes, patch cables, connectors etc copmlete as required .						
		Lot	2				
	AUDIO SYSTEM		+				
24.10	Supply, installation, testing and commissioning of 8° Loudspeaker : 55Hz - 20kHz (-104B), SPL Nominal - Max SPL 118dB SPL or more. Wideband Coverage(H X V) 90 X 50 degree or better. It should have a Axial Sesikivity of >90dB with a Pack Power handling of >6500 WZX11490B It should come with a mount bracket & 4-pole phoneix connector Approved maker/Watrin Aufo, Ratiosa Heinz						
<b>├</b>		Nos	16				

No.     No.     No.     No.     No.     No.     No.     No.       No.     Second	rT		T					A manual for Dimonst
Apple of the second of the	S.No.		Unit.	Quantity	Rate in Figures	(in Rs.)	Rate in Words	Amount in Figures ( Rs.)
14.1       polysis assists using a sourcespe of leader Values for out of the part of the source of the part of the source of the part of the source of the part of the source of the part of the source of the part of the source of the part of the source of the part of the part of the part of the source of the part of the source of the part of the source of the part of the p	24.11	inputs also capable of Direct-Drive option for 1000 speaker lines. Frequency response, 3 dB, ref. 1 HELAM imput to jany Miner output 15-2000 HLCCostali, 1 HELAMBIFE CHL/CL < 4 Set 635 MCH/CLNE input channels with jscompressor / limiter and talk-over function. PM502 have 3 Stereo Inputs including lack, RCA and USB connectors, jonboard player for MP3 or WAY and folic, high quality differs storius with 32 calitable prests 1 Master outputs with 7-band EQ each and flexible signal routing options, delay line for Master-B (150 mace / 50m), Auxiliarias (FX, AUX) 1 Jong L Den north modelson QMC 2 30 CC 101 (d) aches instruct > 151 to Doesboare counted 1 JBN acolesci JBM - 1 Den north modelson QMC 2 30 CC 101 (d) aches instruct > 151 to Doesboare counted 1 JBN acolesci						
Image: Section of Sectio	╞∔		Nos	4				
i       bytester SMB Jacority Jacority Jacority Jacority Jacority Jacority Main Made       No       4         i       bytester SMB Jacority Jacority Jacority Jacority Jacority Main Made       No       4         i       bytester SMB Jacority Jacority Jacority Jacority Jacority Main Made       No       4         i       bytester SMB Jacority Jacority Jacority Jacority Jacority Jacority Main Made       No       4         i       bytester SMB Jacority J	24.12	Stuppy, institution, toting, and commissioning of Handhold Worklos Me with Cardiol polar pattern for transmitter. Dynamic microphone with Neodynian magnet. Receiver Dynamic response SNI-LiskHL Receiver Ref sensitivity < 1.0 µV Receiver Image rejection:55dB Receiver Dynamic mage 295dB and receiver having 32 channels possible. Receiver SN ratio >100dB Additortion <1 %, Transmitter sensitivity - 3.2 mVPa,modulation+/-40kHz	Nos	8				
solute: 15 bd. dx. discretion form: Act with both with with the 24-by Severation if the (a. Lando pair)       solute: 15 bd. dx. discretion if the intervence	24.13	rejection>55dB,Receiver Dyanmic range >95dB and receiver having 32 channels possible,Receiver S/N ratio >100dB A.distortion <1 %. Transmitter sensitivity - 5.6 mV/Pa.modulation:+/-40kHz Approved make:EV.Martin Audio.	Nos	4				
i       paynets.       Nn       4       second	24.14	condensor back electret microphone element. Selectable Omnidirectional/ Cardioid/ Supercardioid/ Hyper Cardioid polar						
i       paynets.       Nn       4       second	<b> </b>		Nos	4				
24.17       Supply, installation, testing and commissioning of Specker Socket / Connector with Stalde Accessories       Set       2         24.18       Supply, installation, testing and commissioning of Photos Socket / Connector with Stalde Accessories       Set       2         24.19       Supply, installation, testing and commissioning of Photos Socket / Connector with Stalde Accessories       Set       2         24.19       Supply, installation, testing and commissioning of Speckar cake - 2 core 2.5 Sq. am for bookpeckers.       Mrs.       600         24.10       Supply, installation, testing and commissioning of Speckar cake - 2 core 2.5 Sq. am for bookpeckers.       Mrs.       600         24.11       Supply, installation, testing and commissioning of All Scenario Photopeckers.       Mrs.       100         24.11       Supply, installation, testing and commissioning of All Scenario Photopeckers.       Mrs.       100         24.11       Supply, installation, testing and commissioning of All Scenario Photopeckers.       Mrs.       100         24.11       Supply installation, testing and commissioning of All Scenario Photopeckers.       Mrs.       100         24.11       Supply installation, testing and commissioning of Photopeckers.       Mrs.       100         24.11       Supply installation, testing and commissioning of Photopeckers.       Mrs.       100         24.12       Supply installation, tes	24.15	Supply, installation, testing and commissioning of Equipment Rack with lockable and front perforated doors for Above Equipments.	Nos	4				
218       Suppl. installation, toting and commissioning of Phono Socket / Connector with Sotable Accessories       Set       2         21.09       Suppl., installation, toting and commissioning of Specker cable - 2 core 2.5 Sq. nm for loadspeckers.       Mrs.       600         31.20       Suppl., installation, toting and commissioning of Specker cable - 2 core 2.5 Sq. nm for loadspeckers.       Mrs.       600         31.20       Suppl., single at long of 2 core shelded Microphone Cable       Mrs.       100         32.11       Suppl. single of following size of MXS. Conduit ppe in recess including at accessories MS prilipmenton boxes. Gi in the walk/foor and plasteng the chased potion and making good the damages etc., complex as required.       Mrs.       100         31.12       Suppl., installation, testing and commissioning of Podium with Interactive Monter and Courted Potion and plasteng the chased potion and making good the damages etc., complex as required.       Mrs.       100         31.21       Suppl., installation, testing and commissioning of Podium with Interactive Monter and Courted Potion and plasteng the chased potion and making good the damages etc., complex as required.       Mrs.       700         31.22       Supply, installation, testing and commissioning of Podium with Interactive Monter and Courted Potion are (Load Courted Potion State For Courted Potion State For Courted Potion State For Courted Potion State For Courted Potion State For Courted Potion State For Courted Potion State For Courted Potion State For Courted Potion State For Courted Potin State For Courted Potion State For Court	24.16	Supply, installation, testing and commissioning of XLR Socket / Connector with Suitable Accessories	Set	2				
3.1       Complex installation, texting and commissioning of Speake cubk - 2 core 2.5 Sq. nm for loudpeulars.       Min       600         3.1.0       Supply. installation, texting and commissioning of Speake cubk - 2 core 2.5 Sq. nm for loudpeulars.       Min       600         3.1.1       Supply. installation, texting and commissioning of Speake cubk - 2 core 2.5 Sq. nm for loudpeulars.       Min       600         3.1.2       Supply. Installation, texting and commissioning of 2 core shelded Microphone Cubk       Min       600         3.1.2       Supply. Installation, texting and commissioning of 2 core shelded Microphone Cubk       Min       600         3.1.1       Supply. Installation, texting and commissioning of 2 core shelded Microphone Cubk       Min       600         3.1.1       Supply. Installation, texting and commissioning of Poclims with Interactive Miniter and Postering the change between the shelder for the she	24.17	Supply, installation, testing and commissioning of Speaker Socket / Connector with Suitable Accessories	Set	2				
Aline     Aline     Aline       24.20     Supply, living & testing of 2 core shielded Merrythone Cable     Min     100       24.21     Supply, and loving of following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. To Public pies in recess including alic occessorie MS pullymetrix base. Or following alic of MS. To Public piese in receiver and inclusion and commissioning of Podium with Interactive Monitor and Control Pot complete as provide the requirement. New Yor Pot accessorie MS. New Yor Pot accessorie MS. New Yor Pot accessorie MS. To Public piese in requirement.     New Yor Pot accessorie MS. Public piese in requirement.       1     15 mm dia     To Tot Al SUBHEAD 24: VDEO PROJECTION & ALIDIO SUSTEM FOR Lecture Halis as MENTIONED     New Yor Pot accessorie MS. Public piese in requirement.	24.18	Supply, installation, testing and commissioning of Phono Socket / Connector with Suitable Accessories	Set	2				
Aline     Aline     Aline       24.20     Supply, living & testing of 2 core shielded Merrythone Cable     Min     100       24.21     Supply, and loving of following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. Conduit pies in recess including all accessorie MS pullymetrix base. Or following alic of MS. To Public pies in recess including alic occessorie MS pullymetrix base. Or following alic of MS. To Public piese in receiver and inclusion and commissioning of Podium with Interactive Monitor and Control Pot complete as provide the requirement. New Yor Pot accessorie MS. New Yor Pot accessorie MS. New Yor Pot accessorie MS. To Public piese in requirement.     New Yor Pot accessorie MS. Public piese in requirement.       1     15 mm dia     To Tot Al SUBHEAD 24: VDEO PROJECTION & ALIDIO SUSTEM FOR Lecture Halis as MENTIONED     New Yor Pot accessorie MS. Public piese in requirement.	24.19	Supply, installation, testing and commissioning of Speaker cable - 2 core 2.5 Sq.mm for loudspeakers .						
34.1       Surply and laying of following size of M.S. Conduit ppe in recess including all accessories MS pullipurction boxes. Gli fish wire of S SWG, fixing hardware etc., including cuting, chasing the walk/floor and plastering the chased portion and making good the duranges etc., complete as required.       Image: Complete as required.         1       25 mm. da       Mts       700         34.21       Surply, installation, testing and commissioning of Podum with Interactive Monitor and Control Port complete as per particular to supple as the requirement.       Nos.       4.4         1       10 TotAL SUBHEAD 24: VIDEO PROJECTION & AUDIO SYSTEM FOR Lecture Hals as MENTIONED       Image: Complete as the requirement.       Nos.       4.4	+		Mtrs	600				
Image: Set of under a required.     Imag			Mtrs	100				
24.22 Supply, installation, testing and commissioning of Podium with Interactive Monitor and Control Port complete as per Nos. 4	24.21	Supply and laying of following size of M.S., Condut pipe in recess including all accessories MS pull/junction boxes, GI fish wire of SWG, fixing hardware etc., including cutting, chasing the walk/floor and plastering the chased portion and making good the damages etc., complete as required.						
2422     Supply, installion, testing and commissioning of Polium with Interactive Mentor and Control Pert complete as per skr requirement.     Nos.     4       10TAL SUBHEAD 24: VIDEO PROJECTION & AUDIO SYSTEM FOR Lecture Hals as MENTIONED	+	i 25 mm dia	Mts	700				
isle requirement. Nos. 4	24.22	Sunnly installation testine and commissioning of Podium with Interactive Monitor and Control Port complete as per						
Image: Section of the sectio		site requirement.	Nos.	4				
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## SUMMARY OF COST ESTIMATE OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & TEACHING BLOCK & RENOVATION EXISTING HOSPITAL , EXISTING OPD & RESIDENTIAL BLOCK AT CHAMBA , HIMACHAL PRADESH

S.No.	Description	CHAMBA Amount (In Rs.)	In Figur
1	SUB HEAD 1: HT SUB STATION		
2	SUB HEAD 2: MAIN LT PANEL		
3	SUBHEAD 3: DG SET & ACCESSORIES		
4	SUBHEAD 4: RISING MAINS		
5	SUB HEAD 5: MV PANELS		
6	SUB HEAD 6: MCB DISTRIBUTION BOARDS.		
7	SUBHEAD 7: UPS SYSTEM		
8	SUB HEAD 8: WIRING		
9	SUB HEAD 9: LIGHT FIXTURE AND FANS		
10	SUB HEAD 10: TELEPHONE SYSTEM		
11	SUBHEAD 11: CONDUITING FOR COMPUTER SYSTEM .		
12	SUB HEAD 12: CONDUTING FOR TV OUTLETS		
13	SUBHEAD 13: ADDRESSABLE FIRE ALARM SYSTEM		
14	SUB HEAD 14: PUBLIC ADDRESS SYSTEM		
15	SUB HEAD 15: CCTV SURVEILLANCE SYSTEM		
16	SUB HEAD 16: NURSE CALL SYSTEM		
17	SUBHEAD 17: INVERTER		
18	SUB HEAD 18: LIFTS		
19	SUB HEAD 19: LT CABLES		
20	SUBHEAD 20: EARTHING		
21	SUBHEAD 21: LIGHTNING PROTECTION		
22	SUBHEAD 22: SOLAR PHOTVOLTAIC POWER GENERATION		
23	SUBHEAD 23: OUT DOOR LIGHTING		
24	SUBHEAD 24: VIDEO PROJECTION & AUDIO SYSTEM FOR Lecture HallS		
	GRAND TOTAL FOR ALL ELECTRICAL WORKS		

No. No. No. No. No. No. No. No. No. No.			BILL OF QUANTITIES (B.O.Q.) OF HVAC WORKS FOR TEACHING & !	NEW HOSPITA	L BLOCI	<- CHAMBA (H.P.)							
Interpretation         Interpr	Itom No 8	DSP/NDSP	Description	TablOby	Unit	Pata in Pr. (in	Distain Dr. fin yourde) 7	Amount (P.c.) 8					
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No.         No. <td>1</td> <td>-</td> <td>3</td> <td></td> <td>,</td> <td>6</td> <td></td> <td></td>	1	-	3		,	6							
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No.     No. <td>The prices</td> <td>are to be quo!</td> <td>ted in the below mentioned for m and shall include the supply, installation, testi</td> <td>ng &amp; commiss</td> <td>ioning at s</td> <td>ite of all the equipm ents, ar</td> <td>cillary materials as specified and all such items what so ever which may be required to fulfill the intent and purpose as laid down in the specifications and or the drawing</td> <td>8. 5.</td>	The prices	are to be quo!	ted in the below mentioned for m and shall include the supply, installation, testi	ng & commiss	ioning at s	ite of all the equipm ents, ar	cillary materials as specified and all such items what so ever which may be required to fulfill the intent and purpose as laid down in the specifications and or the drawing	8. 5.					
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Note     Numerican set of	The tender	er shall quote	r rates in figures and in words under column 6k7 and extend amount to column 8										
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Image: Solid			k. Autom atic capacity control arrangem ent.										
Image: Solid coording and with measury induiting tarter parts       Image: Solid coording and employee registed		ı I	l. Lot Safety controls, flow switches, pressure gauge, thermometer etc. as										
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n Norsary ward ab & är pag subus whereer regint       n       <		. 1	m. Suitable capacity motor with necessary insulation, starter panel										
n Norsary ward ab & är pag subus whereer regint       n       <		,	com plete with all necessary switchgears and control com plete as required.										
p. Micropresses basedoni of participate with access rise and Micropresses function of participate with access rise and MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function of MicroPresses function													
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1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       2     1     1     1     1     1     1     1       2     1     1     1     1     1     1     1       2     1     1     1     1     1     1     1       2     1     1     1     1     1     1     1       2     1     1     1     1     1     1     1       2     1     1     1     1     1     1     1     1       2     1     1     1     1     1     1     1     1       2     1     1     1     1     1     1     1     1       2     1     1     1     1     1     1 <td></td> <td></td> <td>specifications and BMS compatible BACNET / Modhus Protocol</td> <td></td> <td></td> <td></td> <td></td> <td></td>			specifications and BMS compatible BACNET / Modhus Protocol										
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intervention       interventin       interventin       i			Com piete water chiling machine as above. (2W+15)	3	Nos								
intervention       interventin       interventin       i													
Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end succession       Supply, installation, testing and commissioning of split casing end succession       Supply, installation, testing and commissioning of split casing end succession       Supply, installation, testing and commission and anti corresive cauting inside and conside casing end succession       Supply, installation, testing and conside casing end succession       Supply, installation, testing and conside casing end succession       Supply, installation, testing and conside casing end succession       Supply, installation, testing end succession       Supply, installating end successin	2.0		WATEK CIRCULATION PUMPS										
Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end suction       Supply, installation, testing and commissioning of split casing end succession       Supply, installation, testing and commissioning of split casing end succession       Supply, installation, testing and commissioning of split casing end succession       Supply, installation, testing and commission and anti corresive cauting inside and conside casing end succession       Supply, installation, testing and conside casing end succession       Supply, installation, testing and conside casing end succession       Supply, installation, testing and conside casing end succession       Supply, installation, testing end succession       Supply, installating end successin	2.1	*****	Primary Chilled Water Pumps		******								
hype centrifugical chilled water pump sets factory assembled and tested for rated efficiency mounted on a common base frame etc each capable of delivering specified flow rate complete with following as per specification & schedule of eqgirments.       Image: State S													
Image: Instant and Image: I	00000												
delivering specified flow rate complete with following as per specification       a         delivering specified flow rate complete with following as per specification       b         delivering specified flow rate complete with following as per specification       b         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specification       c         delivering specified flow rate complete with following as per specified flow rate complete with following as per specified flow rate complete with following as per specified flow rate specified flow rate complete with following as per sp													
k schedule of equipments.       a. Pump with P'55 THC induction motor with class F insulation, IE3.       a. Pump with P'55 THC induction motor with class F insulation, IE3.       b.         k       b. Channel base with vitration is clatters, coupling guard etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation and anti corresive couting inside and outside casing etc.       c. Cladded insulation anti corresive couting inside and outs	8												
a. Pump with P'55 THC induction motor with class F instalation, IE3.       Image: Construction is clatters, coupling													
Image: Section Sectio	ļ												
a     c. Cladded insulation and anti corrosive coating inside and outside casing etc.     a       of c/billed setter - mono.     a       d 2 New - 150 mm dia dial type ressure gauge     a       e. Pumps shall be suitable for operation on 4154/- 10% Volls/3ph / 50     b       Ut/AC mourt surple.     a		, l	a. Pump with IP55 IEFC induction motor with class F insulation, IE3.										
a     c. Cladded insulation and anti corrosive coating inside and outside casing etc.     a       of c/billed setter - mono.     a       d 2 New - 150 mm dia dial type ressure gauge     a       e. Pumps shall be suitable for operation on 4154/- 10% Volls/3ph / 50     b       Ut/AC mourt surple.     a	i	;†	b. Channel base with vibration isolators, coupling, coupling guard etc.										
dc/tilled.water													
d. 2 Nos. 150 mm das dal type pressure gauge			c. Cladded insulation and anti corrosive coating inside and outside casing etc.										
e. Pumps shall be suitable for operation on 415+/- 10% Volts/3ph /50 Hz/AC mover.sumb	ļ												
					******	0800080008000800080008000							
i cancity.	0000		capacity.										

	DSR/ NDSR	Provide the second second second second second second second second second second second second second second s	T-110		nuting (t	Rate in Rs. (in words) 7	1
8		Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		
				-	6		
		The pump characteristic shall be as follows:					
2.1.1		Water flow rate=300 USGPM	~~~~~		~~~~~		
		Head = 14 Metre WC		aa			
		Prim ary chilled water pum ps as described above. (2W+1S)					
		rrinary chilled water pumps as described above. (200+15)	3	Nos			
2.2		Secondary Pum ps & Variable Speed Pum ping System					
		Supply, installation, testing and commissioning of split casing type					
		centrifugal chilled water recirculation pumps mounted on a common base					
		etc each capable of delivering specified flow rate com plete with following as					
		per specifications & schedule of equipments.					
		<ul> <li>a. Pum p with IP 55 TEFC induction m otor with class F insulation, IE-3.</li> </ul>					
		a. Fum p with it 55 TEPC, induction motor with class F insulation, it-3.					
		b. Channel base with vibration isolators, coupling, coupling guard etc.			~~~~~		
		,					
		c. Cladded insulation and anti corrosive coating inside and outside casing etc.		ľ			
		of chilled water. mmn					
		d. 2 Nos 150 mm dia dial type pressure gauge					
		e. Pumps shall be suitable for operation on 415+/- 10% Volts/3ph /50					
		Hz/AC power supply					
		f. The price will include control software and networking hardware					
		and software for integration and compatibility with BMS (BACNET Protocol)					
		6 de annuella					
		from the pump supplier. g All pumps to be provided with seperate VFD's (variable frequency)		h			
		drives). Separate control panel for each set. Panel should also consist of					
		cooling tao h. Electronic Differential Pressure Transmitters and separate PLC s for					
		each sets.					
		i. The cost will include making necessary flanged suction and delivery	~~~~~				
		beaders in C-Class MS					
		j.Bellows in suction and discharge line for vibration isolation of suitable					
		caracity.					
		k. Complete set system to be mounted on a common MS base frame					
		and shall follow following duty.					
		The pump characteristic shall be as follows:		*****			
2.2.1							
		Water Flow Rate = 300 USGPM Head = 20 Metre WC					
		Secondary chilled water pum ps as described above. (2W+1S)		h			
		secondary craned water puttips as described above. (200+15)	3	Nos			
				h			
3.0		AIR HANDLING UNITS					
		Supply, installation, testing and commissioning of sectional construction		·			
3.1		draw through type Air Handling Units (double skin type) of horizontal /2-tier					
		as specified & shown in schedule of equipm ent com plete with the following :-					
		a. Fan Section and canvas connection, Mixing Box, Thermal break profile.					
		(chuble skin type)					
		b. Centrifugal blower					
		c. Coil section with cooling coil, heating coils as per specifications,					
		minimum 2 bend CSS/PVC eliminators					
		d. Pre filters with filter section in all AHUs.	*****	ļ			
		e. Fine and hepa filters with filter section wherever specifically specified as					
		per AHU schedule .Wherever fine/hepa filters are specified, item shall					
		include factory fabricated double skin plenum of same specifications as					
		AHU panels and complete with filter frameworks. Fine/hepa filter section					
		along with discharge plenum shall be part of AHU in upper tier.					
	,						
		f. Drain pan, drain connection. g. Squirrel cage induction IP 55 TEFC, Insulation class 'F, Duty S1, IE3		·			
		drive motor, drive arrangement, guardetr. h. Necessary vibration isolators & supporting, arrangement.	******	· · · · · ·	*****		
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Item No.	DSR/NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		
		i. Fresh air intake arrangement, necessary water drain & air purge valves					
		wherever required etc. j. Canvass connections, necessary foundations, 2 nos pressure gauge, 2 nos					
		thermometer etc					
		k. Controls for AHUs comprising of a set of PN-16 rating 2 Way pressure					
		independent dynamic balancing cum control valve of required size fitted					
		with modulating actuators having manual override facility on each AHU					
		alongwith wiring for interconnections with 1.5 sq. mm Cu Conductor					
		multicore armoured complete as required. The actuator shall have					
		required shut off capability of minimum 4 bar rating. The acuator shall be					
		compatible with BMS. The valve actuator shall be capable of accepting 2-10					
		volt DC, 4-20 mA electric signal and shall provide similar transduced					
		feedback output signal to control system.					
		<ol> <li>Pre Filter : 90% down to 10 micron, Fine filter : 99% down to 3 micron</li> </ol>					
		(MERV-14), HEPA filter 99.97% down to 0.3 m icr on (MERV-17).					
3.1.1		AHGF-02 - 9500cfm / 6RD Cooling Coil/80 mm static (with pre & fine					
		filter)	1	Nos.			
3.1.2		AH-FF-02 - 4000cfm / 6RD Cooling Coil/80 mm static (with pre & fine	1	Nos.			
3.1.3		AH-FF-03 - 13500cfm / 6RD Cooling Coil/80 mm static (with pre & fine		400040004			
0.1.0		filter)	1	Nos.			
3.1.4		AH-6F-04 - 11500cfm / 6RD Cooling Coil/80 mm static (with pre & fine filter)	1	Nos.			
3.1.5		AH-6F-05 - 9500cfm / 6RD Cooling Coil/80 mm static (with pre & fine			• •		
		filter).	1	Nos.			
3.1.6		AH-7F-02 - 11000cfm / 6RD Cooling Coil/80 mm static (with pre & fine filter)	1	Nos.			
3.1.7		AH-7F-03 - 8000cfm / 6RD Cooling Coil/80 mm static (with pre & fine			•		
		filter)	1	Nos.			
3.1.8		AH-FF-01 - 4500cfm / 6RD Cooling Coil/135 mm static, with pre, fine & HFPA filters (For CSSD Sterile Area)	1	Nos.			
		OT AHUs					
		Supply,installation,testing and commissioning of sheet metal sectionalised construction draw thru type in double skin construction. Each Air Hndling					
		construction araw thru type in double skin construction. Each Air Finding Units shall be with pre filter section with prefilters, mixing chamber,					
		m inim um 2 bend GSS/PVC elim inators, chilled water cooling coil of copper					
		tube & Al fins construction, Oil duct heater of 3KW capacity with wall					
		mounted electric panel, squirrel cage induction motor with vfd starter					
		mounted on AHU, motor efficiency class IE3 suitable for 415+/-10% V, 50					
	: :	Hz 3 Phase AC supply suitably designed for variable frequency drive, backward curved centrifugal fan (belt / direct driven), fine filters section,					
		backward curved centritugal tan (belt / direct driven), fine filters section, suitable pan type humidifier with humidifier section, suitable vibration					
		isolation arrangement. Coil size shall be selected for a maximum face					
	: :	velocity of 500 FPM and static pressure shall be 135 mm WG .The air					
	8 8	moving capacities shall be as detailed below. These units shall be in					
		accordance with drawings and specifications.					
		The heaters shall be controlled by independent thermostats / humidistats /					
		through electro magnetic type contractors and safety thermostats /					
		geyserstats as specified complete with wiring for interconnections with 1.5					
		sq. mm. copper conductor multi core armoured cable. The oil tank shall be					
		2mm thick ss 304L, pipie 19 mm dia of ss304 L. (All these AHUs shall be with thermal break profile and all its fans shall be					
		(All these Arius shall be with thermal break profile and all its fans shall be AMCA certified)					
	l				l	1	

Item No.	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		
		(Hepa filters shall be supplied and installed at terminals by OT Vendor, the					
		cost of these HEPA filters not to include in AHU cost)					
3.2.1		AH-GF-01, 6F-02, 7F-01 - 3000cfm / 6RD Cooling Coil/135 mm static					
			3 2	Nos. Nos.			
3.2.2		AH-6F-01, 6F-03 - 3500cfm / 6RD Cooling Coil/135 mm static	<sup>2</sup>	INOS.			
4.0		SPLIT AIR CONDITIONERS Supply , installation , testing and commissioning of Fil wall split air		aa			
		conditioner com prising of the following. ) Outdoor condensing Units					
		b) Indoor Evaporative Units			~~~~~		
				aaa.	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		
	. 5	c) Interconnecting Refrigerant and drain piping with insulation wherever					
		required, refrigerant and oil. The unit shall include refrigerant piping, power					
	1	cabling and drain piping. c) Safety and oper ational controls					
		e) Hi-wall splits shall be suitable for single phase power supply and complete		400040004	000000000000000000000000000000000000000		
		with suitable rating voltage stablizer. I) Mounting arrangement and structural supports for outdoor unit are					
		n Mounting arrangement and structural supports for outdoor unit are included.					
		g) The units should have 3 star rating from BEE.			******		
4.1		Capacity : 2.0 TR	1	Nos.			
5.0		Inline Fans/ Propeller Fans/ Ventilation f ans					
		Supply, installation, testing and commissioning of Inline Fans as shown in					
		drawings and as per equipment schedule .Each fan shall be complete with					
5.1	8	centrifugal blowers, totally enclosed fan cooled motor. Fan motor shall be					
		suitable for single phase, 220 +/-6% V,50 Hz AC supply. Item shall be					
	040004000400040	com plete with star ter & cabling.			>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		
5.1.1		Inline Fans					
		Duty: Laborator y Eshaust Air Quantity :1000 CFM					
		Slatic Pressure :20 mm wg	3	Nos.			
		Sauc rressure 20 mm wg			~~~~~		
5.1.2		Duty: Toilet/Laboratory Exhaust					
		Air Quantity :700 CFM	10	Nos.			
		Static Pressure :20 mm wg			*****		
5.1.3		Duty: Toilet Exhaust					
0.1.3		Air Quantity :600 CFM		aa			
		Static Pressure :20 mm wg	14	Nos.			
		Cane, a coole c.20 mm wg		aa			
5.1.4		Duty: Toilet/Laboratory Exhaust					
		Air Quantity :500 CFM	34	Nos.			
		Static Pressure :20 mm wg					
5.1.5		Date Laboration Belgingt					
5.1.5		Duty: Labor atory Exhaust Air Quantity :350 CFM					
			8	Nos.			
		Static Pressure :20 mm wg			••••••		
		Supplying, installing, testing and commissioning of direct driven Propeller			~~~~~		
		fan for exhaustair as shown in drawings. Each fan shall be complete with					
5.2		permanent split capacitor or shaded pole motor, mounting plate,					
~~		accessories like wire guard, bird screen and fixed louvers for weather					
		protection as required. Fan selection arrangement and Electrical					
		characteristics shall be as follows:					

1     2     0     1     2     0 <th>Itom No D</th> <th>NT ANT A</th> <th>Description</th> <th>Tabl Obr</th> <th>Unit</th> <th>Rate in Rs. (in</th> <th>Rate in Rs. (in words) 7</th> <th>Amount (Re) 8</th>	Itom No D	NT ANT A	Description	Tabl Obr	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Amount (Re) 8
No.         No. <th>2</th> <th></th> <th>Description</th> <th>Total Qty</th> <th>Unit 5</th> <th></th> <th>Rate in Rs. (in words) 7</th> <th>Amount (Rs.) 8</th>	2		Description	Total Qty	Unit 5		Rate in Rs. (in words) 7	Amount (Rs.) 8
M         M	1	-	3			6		
M         M			225 mm dia 1400 RPM fan suitable for 220 +/- 10% volts, 50 Cycles, 1 Phase		1			
Matrix         Matrix<	5.2.1			10	Nos.			
No.         No. <td>5.2.2</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	5.2.2	1						
10       10 <td< td=""><td></td><td></td><td>AC Supply</td><td>4</td><td>Nos.</td><td></td><td></td><td></td></td<>			AC Supply	4	Nos.			
10       10 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
No.         Spin Maintangemention watch								
Image: Section of the sectio	5.3							
Image: Section of the sectio		8						
Norma         Norma <td< td=""><td>8</td><td></td><td>in drawings, Each fan shall be direct driven. Fan motor shall be suitable for 3</td><td></td><td></td><td></td><td></td><td></td></td<>	8		in drawings, Each fan shall be direct driven. Fan motor shall be suitable for 3					
No.         Second		1	Phase, 415+/- 10% V, 50Hz AC supply with IP 55 protection, class 'F					
No.         No. <td></td> <td>1</td> <td>insulation and IE-3 class. Fan shall be complete with gravity louvers,</td> <td></td> <td></td> <td></td> <td></td> <td></td>		1	insulation and IE-3 class. Fan shall be complete with gravity louvers,					
Note     Amenu     <			vibration isolators.					
Note     Amenu     <								
No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No. <td>5.3.1</td> <td></td> <td></td> <td></td> <td>ļ</td> <td></td> <td></td> <td></td>	5.3.1				ļ			
No.         No. <td></td> <td>······</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		······						
Note     Note			Static Pressure : 25 mm wg	3	No.			
Note     Note	ļ.				ļ			
No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.       No.     No.     No. <td>5.3.2</td> <td></td> <td>Duty: Lift well pressurisation</td> <td></td> <td></td> <td></td> <td></td> <td></td>	5.3.2		Duty: Lift well pressurisation					
No.     No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No							k	
No.     No. <td></td> <td></td> <td>State rressure : 25 mm wg</td> <td>6</td> <td>No.</td> <td></td> <td></td> <td></td>			State rressure : 25 mm wg	6	No.			
No.     No. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
No.     No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.     No.       No.     No.     No.     No.     No.       No.     No.     No. <td>5.3.3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	5.3.3							
No.     No. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>							1	
Image: Market			State rressure : 25 mm wg	1	No.			
Image: Marrier Matrix Sector     Image: Marrix								
Image: Market	3.3.4							
initial       initia       initial       initial	i						***************************************	
131       141       1				3	No.			
131       141       1			Elever yuntilation (Erech Air Sumby)					
image: sector	535						\	
indep     indep			in Quality 2000 city) 25 min st pr.	1	Nos.			
indep     indep								
and       a	5.3.6		Air Quantity : 2500 CFM, 25 mm st. pr.	2	Nos.			
and       a					ļ			
and       a	5.3.7		Air Quantity : 3500 CFM, 25 mm st pr.	6	Nos.			
x = 1 $x = 1$								
Mark       Mark	5.3.8		Air Quantity: 4000 CFM, 25 mm st.pr.	5	Nos.			
image: section of the section of th								
3.30       Ar Quartiy: 600 CPA, 25 m st pr.       1       No.       Image: Constraint of the state of the s	5.3.9		Air Quantity: 4500 CFM, 25 mm st. pr.	2	Nos			
And Avial Fam (Fire rated)       And Avial Fam (Fire rated) <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
And Avial Fam (Fire rated)       And Avial Fam (Fire rated) <td< td=""><td>5.3.10</td><td></td><td>Air Quantity : 6000 CFM, 25 mm st. pr.</td><td></td><td>N</td><td></td><td></td><td></td></td<>	5.3.10		Air Quantity : 6000 CFM, 25 mm st. pr.		N			
Supply, installation, testing and commissioning of tube axial flow fars as shown in drawings, Each fan shall be dreet driven. Fan motor shall be suitable for 3 Phase, 415+/-10% V, 50Hz AC supply with P55 protection, class H instalation and LE5 class. Fan shall be complete with vibration isolaters, gravity lowers. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be complete with vibration isolaters, gravity lowers. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class. <t< td=""><td></td><td></td><td></td><td>1</td><td>INOS.</td><td></td><td></td><td></td></t<>				1	INOS.			
Supply, installation, testing and commissioning of tube axial flow fars as shown in drawings, Each fan shall be dreet driven. Fan motor shall be suitable for 3 Phase, 415+/-10% V, 50Hz AC supply with P55 protection, class H instalation and LE5 class. Fan shall be complete with vibration isolaters, gravity lowers. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be complete with vibration isolaters, gravity lowers. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class. Fan shall be 200 dgc, 2 thrs fire rated.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class.       Image: Class H instalation and LE5 class. <t< td=""><td>5.4</td><td>NDSR</td><td>Tube Axial Fans (Fire rated)</td><td></td><td></td><td></td><td></td><td></td></t<>	5.4	NDSR	Tube Axial Fans (Fire rated)					
shown in drawings, Each fan shall be direct driven. Fan motor shalleb       sills <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
shown in drawings, Each fan shall be direct driven. Fan motor shalleb       sills <t< td=""><td>l</td><td></td><td>Supply, installation, testing and commissioning of tube axial flow fars as</td><td></td><td>· · · · · ·</td><td></td><td></td><td></td></t<>	l		Supply, installation, testing and commissioning of tube axial flow fars as		· · · · · ·			
suble for 3 Phase, 4154/-10% V,50Hz AC supply with P'S protection class H instation and E3 class. Fan shall be complete with vitration isclars, gravity lowers. Fan shall be complete with vitration isclars, gravity lowers. Fan shall be 20 deg C, 2hrs fine rated       image: supple shall be 20 deg C, 2hrs fine rated       image: supp		1						
class H insulation and E3 class. Fan shall be complete with vibration isclators, gravity lowers. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulation and E3 class. Fan shall be 20 deg C, 2irs fire rated       isclass H insulaticlass. Fan shall be 20 deg C, 2irs fire rated       iscla		8						
1     solators, gravity lowers. Eanshall be 250 deg C, 2trs fire rated     1		8						
541     Ar Quarity: 7500 CFM, 25 mm st pr.     4     As       542     Ar Quarity: 7500 CFM, 25 mm st pr.     4     No.		8						
5.4.1     Air Quarity: 6000 CFM, 25 nm st μr.     4     Nos.       5.4.2     Air Quarity: 7500 CFM, 25 nm st μr.     4     Nos.			isolators, gravity louvers. Fan shall be 250 deg C, 2hrs fire rated.		ļ			
5.1.1     Air Quarity: 600 CPM, 25 mm st pr.     4     Nos.       5.4.2     Air Quarity: 750 CPM, 25 mm st pr.     4     Nos.								
54.2         Ar Quantity: 7500 CFM, 25 nm st pr.         4         Ns.								
	1.4.C		Air Quantuty : 6000 CFM, 25 mm st. pr.	4	Nos.			
					ļ			
	5.4.2		Air Quantity: 7500 CFM, 25 mm st. pr.	4	Nos.			
6.0 NDSR Centrifugal Fans	6.0	NDSR	Centr if ugal Fans					<u> </u>

Item No.	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Amount (Rs.) 8
1	2	3	4	5	Figur e)		
-	_	-	-		6		
		Supply, installation, testing and commissioning of SISW CENTRI					
		FANS for ventilation system. Each fan shall be complete with TEFC type IP					
	8	55 m otor with class F insulation, belt drive, pulley m ounted on m otor & fan					
	1	shaft, belt guard, motor mount, casing and vibration isolators as per					
	8						
	8	specifications and shop drawings. All expose fan shall be covered with G					
	8	housing as per approved shop drawings to protect fan and motors from					
		weather.Fan motor shall be suitable for 3 Phase, 415+/- 10% V, 50Hz AC					
		supply . Fan shall be com plete with gravity louvers.					
		Duty: Laundry ventilation					
6.1		Air Quantity : 13500 CFM	1	Nos.			
		Static Pressure : 35 mm wg					
7.0		Air Washer Unit		<u>  </u>			
	anna ann an an an an an an an an an an a	Supply, installation, testing and commissioning of air washer units for air					
	2	cooling work constructed as per detailed specifications and drawings,					
	8	complete with 50mm thick prefilter, minimum 200mm deep celldeck pad,					
	ł	water circulating pump, DIDW centrifugal fan, TEFC squirrel cage induction					
		motor V-belt & drive set vibration isolators, internal piping with class 'B' $% \left( {{{\mathbf{F}}_{{\mathbf{r}}}}^{2}} \right)$					
	5	piping, quick fill, make up drain, overflow connection float value etc.					
	2	complete with all respects. Mounting frame of angle iron for floor / wall					
	8	m ounting. Price m ust include starter panel, cabling, control wiring, earthing					
	1	etc.					
		Duty: Kitchen ventilation					
7.1		13500 CFM with 50mm static pressure	1	Nos.			
8.0		Hot Water Generator					
	5	Supply, installation, testing & commissioning of Electric Hot Water					
	2	Generator for winter heating/monsoon reheating system. Hot water					
	ž	generator shall be with IP 55 protection and complete with controls, sensors,					
	8	controll cabling ,piping and fittings, thermal insulation, base frame etc. as					
	8	per specifications. HWG shall be BMS compatible with RS 485					
		com munication port.					
8.1		Capacity : 200 KW					
<u> </u>		Status : (1W+1S)					
1		Tem p IN/OUT : 110/125 DegF	2	Nos.			
t							
9.0		EXPANSION TANK					
	8	Supply, installation, testing and commissioning of 1000 litres capacity					
		expansion tank fabricated from 3mm MS sheet and having 19 mm thick					
		aluminium foil faced nitrile rubber foam insulation covered with 28 Ga Aluminium sheet with man hole cover, drain ,overflow, quick fill, water					
		Auminium sneet with man noie cover, drain overnow, quick nii, water supply connections, valves and complete in all respects as per drawings and					
	1	supply connections, valves and complete main respects as per drawings and specification.					
		*****		ļ			
9.1		1000 ltrs.	1	No.			
	************************						
10.0	NDSR	VRV/VRF System for Teaching Block					

Item No.	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Amount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		
		Supply, Installation, Testing and commissioning of Air cooled & inverter					
		based modular type variable refrigerant volume type airconditioning					
	5 8	system with R410a refrigerant suitable for $415 \pm 10\%$ , 50 Hz. The system shall have both heating and cooling modes. The system shall be BMS					
	8 5	Compatiable with BACnet / MODbus protocol. The unit shall consist of					
	Б R	indoor units and external condensing units and other accessories as listed					
	2 5	below complete in all respects as under:					
	<u> </u>						
10.1	1	Outdoor Unit					
		Supply, Lifting, shifting, positioning, installation, testing & Commissioning of			~~~~		
		outdoor units including topping R410a gas as per site requirements for qtys					
		mentioned below complete as per specification and drawings.					
10.1.1		20 HP Heat Pump type including indoor outdoor connection kit.	13	No.			
10.1.1	ļ	20 Fir Fleat Full p type including indufor foliador connection kit.	15	110.			
10.1.2		18 HP Heat Pump type including indoor outdoor connection kit.	1	No.			
10.1.3		16 HP Heat Pum p type including indoor outdoor connection kit.	3	No.			
10.1.4		14 HP Heat Pum p type including indoor outdoor connection kit.	3	No.			
	ļ						
	<u> </u>	Supply, Lifting, shifting, positioning, installation, testing & Commissioning of					
10.2		Hi-wall type indoor units for qtys mentioned below complete as per					
	R 8	specification and drawings.					
10.2.1		1.0 TR	5	Nos.			
10.2.2		1.5 TR	24	Nos.			
10.2.3	<u> </u>	2.0 TR	12	Nos.			
		2.0 IX					
	{	Supply, Lifting, shifting, positioning, installation, testing & Commissioning of			~~~~~		
10.3	R 8	round flow cassette indoor units for qtys mentioned below complete as per					
		specification and drawings.					
10.3.1		4.0 TR	1	Nos.			
10.3.2		3.0 TR	3	Nos.			
10.3.3		2.5 TR	18	Nos.			
10.3.4		2.0 TR	6	Nos.			
	1	~~~~~					
		Supply, Lifting, shifting, positioning, installation, testing & Commissioning of					
10.5		Celing mounted ductable type indoor units for qtys mentioned below					
		complete as per specification and drawings.					
	h						
10.5.1		Ductable unit : 6.0 TR	4	Nos.			
10.5.2		Ductable unit : 5.0 TR	6	Nos.			
10.5.3		Ductable unit : 4.5 TR	16	Nos.			
10.5.4		Ductable unit : 4.0 TR	4	Nos.			
	ļ						
	/ /	Supply, Lifting, shifting, positioning, installation, testing & Commissioning of					
10.6		Celing mounted duct type TFA indoor units for qtys mentioned below					
		com plete with <b>pre &amp; fine filters</b> as per specification and drawings.					
10.6.1		Ductable TFA unit : 8.5 TR	1	Nos.			
	أستحصب			8			2

Item No.	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		
10.6.2		Ductable TFA unit : 6 TR	1	Nos.			
						<mark></mark>	
10.7		Supply, Installation, Testing & Commissioning of Imported Remote	101	Nos.			
		controllers for operation of indoor units					
		Supply installation testing and commissioning of <b>central controller</b> suitable					
10.8	. R	for complete installation. Which shall be BMS Compatiable with BACnet /	2	Nos.			
	5	MODbus protocol					
				*****			
	. 5	Supply, Installation, commisioning of Interconnecting refrigerant pipe work (including refrigerant joints) with (19mm/13 mm thick) closed cell					
	: 5	elastomeric nitrile rubber tubular insulation between each set of indoor &					
10.9		outdoor units as per specifications, all piping inside the room shall be					
	5	properly supported with MS hanger & clamps.					
10.9.1		41.3 mm duly insulated with 19/13mm nitrile rubber	75	Rmt		<u>.</u>	
10.9.2		34.9 mm duly insulated with 19/13mm nitrile rubber	75	Rmt			
10.9.3		28.6 mm duly insulated with 19/13mm nitrile rubber	350	Rmt			
10.9.4		22.2 mm duly insulated with 19/13mm nitrile rubber	425	Rmt			
10.9.5		19.1 mm duly insulated with 19/13mm nitrile rubber	375	Rmt			
10.9.6		15.9 mm duly insulated with 19/13mm nitrile rubber	1000	Rmt	н. 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		
10.9.7		12.7 mm duly insulated with 19/13mm nitrile rubber	500	Rmt			
10.9.8		9.5 mm duly insulated with 19/13mm nitrile rubber	900	Rmt			
10.9.9		6.4 mm duly insulated with 19/13mm nitrile rubber	275	Rmt			
				aa		***************************************	
10.10		Drain Piping					
		Supply,installation,testing and commissioning of rigid PVC piping					
		conforming to IS 4985 with solvent cement joints complete with fittings,					
		supports as per specifications and duly insulated with 6 mm thick closed					
		celluitikaadoet					
10.10.1		50 mm dia	175	Rmt			
10.10.2		40 m m dia	250	Rmt			*****
10.10.3		32 m m dia	650	Rmt			8
10.10.3			000	Kmt			
		Supply Installation of powder coated <b>MS Tray</b> type support covered with G					8
10.11	8	sheet 300 m m wide for all exposed copper pipes running on terrace	250	Rmt			
				*****			
10.12	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	kolators			1	l	
		Weather proof box with MCCBs of suitable ratings near the outdoor units for isolation with RCCB300 m A	20	Nos.			X
10.13		Control & Transmission Wiring					ļ
	8	Supply, installation, testing and commissioning of control cum transmission					I
		wiring of 2 core x 1.5 sqmm copper in suitable PVC conduits between indoor and out door unit & between indoor unit and their corded remottes.	2500	Rmt			
		inkovi and ou door that coperate and and the and their corded remoties.					
10.14		HEAT RECLAIM VENTILATION UNIT					8

Item No.	DSR/NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		~~~
		Supply, installation , testing and commissioning of heat reclaim ventilation					
		with inlet and exhaust blower with fan (Inlet & exhaust) desiccant absorption					Í.
		material non contact seal, modular design with Aluminium supports of					
		extruded section, galvanized steel plate casing, self extinguishable					ŧ.
		polyurethene foam insulation, multi-directional fibrous fleeces air filter including electric panel with cabling & earthing complete as per					1
		requirements.					
		75% efficiency					
8.1		(F/A - 2000 cfm & R/A 2000 cfm)	~~~~~				<u>/</u>
			3	Nos.			
8.2		(F/A - 1000 cfm & R/A 1000 cfm)	1	Nos.			Į
в)		N III N/C				SUBTOTAL	
		PIPING					<u>/</u>
11.0	DSR	INSULATED CHILLED WATER PIPING (Nitrile Rubber Insulation)					
	1.5.K			aa			
		Combine Index ( fries to the and					
		Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps,					
		vibration isolators and fittings but excluding valves, strainers, gauges etc.)					
		duly insulated with following closed cell elastometric nitrile rubber of					
		minim um 45 Kg / m3 density, ther mal conductivity 0.037 W/MK or better					Í.
		at 20 deg m ean tem per atur e class 'O' insulation applied by suitable adhesive					
		complete including repairing of damage to building etc. as per specifications					
11.1	16.2	and as required complete in all respect.					
		Note:-The Pipes of sizes 150 m m & below shall be M.S. 'C'					1
		class as per 15 : 1239 and pipes size above 150 mm shall be					Í.
		welded black steel pipe heavy class as per IS: 3589, from					
		minimum 6.35 mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm					
		dia and above.					
		ua and above.					1
11.1.1	16.2.6	150mm dia. (32 mm thick insulation)	110	RM			1
11.1.2	16.2.7	125mm dia. (32 mm thick insulation)	90	RM			
11.1.3	16.2.8		90	******			
	<u>.</u>	100mm dia. (32 mm thick insulation)		RM			
11.1.4	16.2.9	80mm dia. (32 mm thick insulation)	120	RM			į
11.1.5	16.2.10	65mm dia. (32mm thick insulation)	100	RM			
11.1.6	16.2.11	50mm dia. (32 mm thick insulation)	70	RM			
11.1.7	16.2.12	40mm dia. (32 mm thick insulation)	90	·····			
	ļ			RM			Í
11.1.8	16.2.13	32mm dia. (19mm thick insulation)	20	RM			Į
11.1.9	16.2.14	25mm dia. (19mm thick insulation)	10	RM			
							Į
12.0	DSR	INSULATED VALVES & STRAINERS					1
		Considering for the time and can price in the second state of the					<u> </u>
		Supplying, fixing, testing and commissioning of following valves, strainers, gauges in the chilled water plumbing duly insulated to the same					1
		specifications as the connected piping and adequately supported as per					
		specifications.					
							[
		Butterfly valves (Manual) :					
12.1	16.7.1	with C I body SS Disc, Nitrile Rubber Seal & O-Ring PN 16 pressure rating					1
		for chilled water / hot water circulation as specified					1
				*****			<u> </u>
12.1.1	16.7.1.2	150 mm dia.	2	N		***************************************	
		1		Nos			k

Item No.	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		
8					6		
12.1.2		125 mm dia.	18	Nos			
12.1.3		100 mm dia.	8	Nos			
12.1.4	16.7.1.5	80 mm dia.	11	Nos			
12.1.5	16.7.1.6	65 mm dia	9	Nos			
12.1.6	16.7.1.7	50 mm dia.	6	Nos			
12.1.7	16.7.1.8	40 mm dia.	18	Nos			
12.1.8	NDSR	32 mm dia	2	Nos			
		Balancing valves with built in measuring facility with C I body flanged construction with EPDM coated disc with long pitch with					
12.2		protected out pipe insulation & PN 16 pressure rating for chilled / hot water					
	8	circulation as specified.					
12.2.1		125 mm dia.	3	Nos			
12.2.2	16.7.2.4	100 mm dia.	5	Nos			
12.2.3	16.7.2.5	80 mm dia.	5	Nos			
12.2.4	16.7.2.6	65 mm dia.	3	Nos			
12.2.5	16.7.2.7	50 mm dia.	2	Nos			
12.2.6	16.7.2.8	40 mm dia.	6	Nos			
-	5	Non return/Check valves :					
12.3	16.7.3	with duel plate of C 1 body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as					
		specified					
12.3.1	16722	125 mm dia.					
12.0.1	10.7.5.5	122 ITTT (48.	6	Nos			
		Y-strainers of Ductile CI Body flanged ends with stainless steel strainer for					
12.4	16.7.4	chilled / hot water circulation including insulation as specified.					
12.4.1	16.7.4.3	125 mm dia.	6	Nos			
12.4.2	16.7.4.4	100 m m dia.	1	Nos			
12.4.3	16.7.4.5	80 m m dia.	3	Nos			
12.4.4		65 m m dia	3	Nos			
12.4.5		50 m m dia	2	Nos			
12.4.6	*******	40 m m dia	6				
			6	Nos			
12.5		Providing and fixing in position the following Gate Valves duly insulated as per specifications:					
12.5.1		50 mm dia Valves	2	Nos.			
12.5.2		40 mm dia Valves	2	Nos.			
12.5.3		32 mm dia Valves	2	Nos.			
				1405.			
12.6		Auto Air Vent Valves					
12.6.1		15 mm dia	4	Nos.			
12.6.2		20 mm dia	4	Nos.			
12.6.3		25 mm dia	4	Nos.			
12.7	NDSR	Ball Valve with strainer					
12.7	INL/OR			8	1	}	6

I tem No.	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Amount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		
12.7.1		25 m m	2	Nos.			
12.7.2		20 m m	2	Nos.		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
			2	Nos.			
12.8	NDSR	Ball valve without strainer			~~~~~		
12.8.1	000000000000000000000000000000000000000	25 m m	4	Nos.			
12.8.2		20 m m					
12.0.2		20 mm	4	Nos.			
		Supply, installation, testing and com missioning cooling-heating thermostats :					
12.9							
12.9.1		For AHUs	13	Nos.			
13.0	NDSR	DRAIN PIPING					
		Supply, laying/fixing, testing and commissioning of G.I. medium class ERW					
		Suppry, laying, nxing, testing and commissioning or G.L. medium class EKW piping confirming to IS:1239 with necessary clamps, supports, anti vibration					
		mountings, hangers and fittings such as bends, tees, reducers etc. duly					
13.1		insulated with nitrile rubber insulation and finally applying 0.63 mm					
		aluminium cladding as per specifications for condensate drain from air					
		handling units and chillers etc.					
					~~~~~		
13.1.1		50 mm dia	20	RM			
13.1.2		40 mm dia	40	RM		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
13.1.3		32 mm dia	*****	******			
			40	RM			
13.1.4		25 mm dia	30	RM			
						SUBTOTAL	
<u>c)</u>		AIR DISTRIBUTION			*****		
14.0	DSR	GSS DUCTING					
		Supply, installation, balancing and commissioning of factory fabricated GSS					
		sheet metal rectangular ducting complete with neoprene rubber gaskets,					
14.1	10.12.1	elbows, splitter dampers, vanes, hangers, supports etc. as per approved					
		drawings and specifications of following sheet thickness complete as required.					
		r cqua cc					
14.1.1	16.12.1.4	Thickness 1.25 mm sheet	350	Sqm.			
14.1.2	16.12.1.3	Thickness 1.00 mm sheet	100	Sqm.			
14.1.3	16.12.1.2	Thickness 0.80 mm sheet	1300	Sqm.			
14.1.4	010001000000000	Thickness 0.63 mm sheet	1900				
19.1.9	10.12.1.1	III. MESS OLD HAIT SIRVE	1900	Sqm.			
15.0	NDSR	ALUMINIUM DUCTING		400040004	000000000000000000000000000000000000000		
		Supply, fabrication, installation and testing of alum inium ducts in accordance					
15.1		with the approved shop floor drawing and specifications. Material should					
		confirm to 15 737 latest edition.					
						4	
15.1.1		Thickness 0.80 mm sheet	500	Sqm.			
15.1.2		Thickness 1.00 m m sheet	200	Sqm.			
16.0	DSR	FIRE DAMPERS		aa	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		
16.0	LOIN	FIKE DAMIFERS				8	δ.

Item No	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	1 0 a1 Qiy 4	5	Figure)		Allouit (KS.) 0
-	-				6		
		Supplying, Fixing testing and commissioning of fire dampers in supply air					
		duct/main branch and return air path as and where required of required					
		sizes i/c control wiring,the dam per shall be m otorized and spring return so					
		as to close the damper in the event of power failure automatically and open					
	16.20	the same in case of power being restored. The spring return action shall be					
		inbuilt mechanism and not externally mounted. The damper shall also be					
		closed in the event of fire signal complete as required and as per					
		specifications.					
40.4							
16.1	16.20.1	Fire/smoke Damper	10	Sqm			
16.2	16.20.2	Actuator	26	sets			
						r	
17.0	DSK	VOLUME CONTROL DAMPERS					
		Supply, installation, testing and commissioning of GI volume control duct					
17.1	16.13	damper complete with neoprene rubber gaskets, nuts, bolts, screws					
		linkages, flanges, etc. as. ver. specifications	12	Sqm.			
18.0	DCP	CEI LI NG DI FFUSERS		h			
18.0	DSR	CELLING DAPPOSERS					
		Supplying, fixing testing commissioning of supply air diffusers of powder		·		***************************************	
		coated aluminium with aluminium volume control dampers with anti					
18.1	16.17	smudge ring & removable core.					
		Sindle ring diremonde core.	8	Sqm.			
		Supplying, fixing testing commissioning of Return air diffusers of powder					
18.2	16.18	coated alum inium without volum e control dam pers with anti smudge ring &					
		removable core.	8	Sqm.			
			~~~~~~~~~~				
19.0	DSR	GRIILES		******			
		Supply, installation, testing and balancing of supply/return air grilles					
		with/without volume control dampers of powder coated aluminium					
		construction suitable for installation in walls, false ceiling boxing etc as per					
		specifications and drawings.					
00000000000			040004000400400				
		Supplying & fixing of powder coated extruded alum inium Supply Air Grills					
19.1	16.15	with alum inium volume control dam pers as per specifications.					
			8	Sqm.			
		Supplying & fixing of powder coated extruded alum inium Return Air Grills					
19.2	16.16	with louvers but without volum e control dam pers com plete as required.					a 000
			8	Sqm.			
20.0	NDSR	LINEAR GRILLES				L	
		Supply, installation, testing and balancing of air linear grilles of powder coated					
		alum inium construction suitable for installation in walls/false ceiling, boxing					
		etc as per specifications and drawings.	6	Sqm.			
21.0	NDSR	GRILLE DAMPERS	~~~~~	*****			
		Supply, installation and balancing of alum inium construction volume control					
		dampers for linear grills.	6	Sqm.			
22.0	NDSR	LAMINAR FLOW DIFFUSERS					
			~~~~~~~~~~~				
		Providing & fixing of 18s wg alum inium powder coated non-respiratory 100%					
		air tight laminar flow diffusers. LFDs shall have 50% perrforation.The					
		perforated front face is openable hinge type complete with key operated					
		opposed blade dampers from front.					
22.1	· · · · · · · · · · · · · · · · · · ·					^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		Size: 1200 x 600	24	Nos.			
23.0	NDSR	FRESH AIR GRIILES with bird screen					
23.0	ADOK .	I FRESH ALK GKI LLES WIIN DIT & SCREEN		t		š	8

	DSR/ NDSR	75 I.I.					
8		-	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Amount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		
		Supply, installation, testing, commissioning and balancing of fresh air			8	L	
							8
		opening com prising of powder coated extruded alum inium louvers with bird					
		screen, projection with frame and volume control damper with lever					8
		mounting arrangement etc. as per specifications and drawings.	5	Sqm.			8
							1
24.0		DUCT INSULATION		· · · · ·			
	040004000400040			******			1
8		Supplying and fixing of following thickness duly lam inated					
		alum inum foil of m at finish closed cell Nitrile rubber (Class "O") insulation					8
		on existing duct after applying suitable adhesive for Nitrile rubber. The joints					2000
24.1	16.23	shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile					8
		rubber tape insulation com plete as per specifications and as required.					8
							8
							8 8
24.1.1	16.23.1	19 mm	1600	Sqm.			
24.1.2	16.23.2	25 m m	100	Sqm.			
							1
25.0		ACOUSTIC					
					•••••••••••••••••••••••••••••		
25.1		DUCT ACOUSTIC IINING			]		[
		Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm		r			1
		thick resin bonded glass wool having density of 32 kg/m <sup>3</sup> , with 25 m m X 25					
		mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with					8
		Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum					8
		sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick					8
		pins, CPRX compound etc. com plete as required and as per specifications.					
		pils, Crkx compounder: complete as required and as per specifications.					8
8			20	Sqm.			8
. 8							8
		Note:- No lining inside supply / return ductor plenum shall be done if the	homenen				
		Note:- No lining inside supply / return ductor plenum shall be done if the airside system is equipped with fine, hepa filters.	homenen			SUBTOTAL	
		Note:- No lining inside supply / return dactor plenum shall be done if the airside system is equipped with fine, heps filters.	homenen			SUBTOTAL	
D)		airside system is equipped with fine, hepa filters.	homenen			SUB TOTAL	
D)			homenen			SUBTOTAL	
D) 26.0		airside system is equipped with fine, hepa filters.	homenen			SUBTOTAL	
		airside system is equipped with fine, hepa filters.	homenen			SUBTOTAL	
	NDSR	airside system is equipped with fine, hepa filters.				SUBTOTAL	
	NDSR	airside system is equipped with fine, hepa filters. <u>EIECTRICAL</u> MAIN HVAC PANE.				SUBIOTAL	
	NDSR	airside system is equipped with fine, hepa filters. <u>EIECTRICAL</u> MAINHVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested				SUBTOTAL	
	NDSR	akriske system is equipped with fine, heps filters. EIFCTRICAL MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA), as per IEC 61439-162 cubicle type, totally enclosed, free				SUBTOTAL	
	NDSR	airside system is equipped with fine, hepa filters. <b>EICTRICAL</b> MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C fanel, Type Tested Assembly (TIA) as per IEC 61439-162 cubicle type, bally enclosed free studing type, dat, damp and vermin proof panel, powder coatted, made up of CRCA sheet, complete with aluminum bastars, danger notice plate,				SUBTOTAL	
	NDSR	airside system is equipped with fine, hepa filters. <b>EICTRICAL</b> MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (TIA) as per IEC 61439-1&2 cubicle type, bally enclosed free studing type, dast, dam pand verm in proof panel, powler coated, made up of CRCA sheet, complete with aluminum bastars, danger notice pake, interconnections with suitable capacity aluminum leads/solid aluminum				SUBIOTAL	
	NDSR	akriske system is equipped with fine, heps fillers. EHETTRICAL MAINTHVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed free standing type, dust, dump and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum busbars, danger notice plak, inferconnections with suitable caucity aluminum strips/rods, necessary interlocking, and having incoming and outgoing				SUBTOTAL	
	NDSR	airsike system is equipped with fine, hepa filters. <b>EIFCINICAL</b> MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed, free standing type, dust, damp and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum bashars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strip/rods, necessary interlocking, and having incoming and oudgoing switchgears as mentioned below. Complete as per technical specifications				SUBTOTAL	
	NDSR	akriske system is equipped with fine, heps fillers. EHETTRICAL MAINTHVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed free standing type, dust, dump and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum busbars, danger notice plak, inferconnections with suitable caucity aluminum strips/rods, necessary interlocking, and having incoming and outgoing				SUBTOTAL	
	NDSR	airside system is equipped with fine, hepa filters. <b>EICTRICAL</b> MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C fanel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, bally enclosed free studing type, dat, damp and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum busbars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strips/rods, necessary interlocking, and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required.				SUBIOTAL	
	NDSR	airsike system is equipped with fine, hepa filters. <b>EIFCINICAL</b> MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed, free standing type, dust, damp and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum bashars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strip/rods, necessary interlocking, and having incoming and oudgoing switchgears as mentioned below. Complete as per technical specifications				SUBTOTAL	
26.0	NDSR	airsike system is equipped with fine, hepa filters. EIFCTRICAL MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA), as per IEC 61439-162 cubicle type, totally enclosed, free standing type, dast, damp and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum heshars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strip/rods, necesary interlocking, and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required. Note:				SUBTOTAL	
260 	NDSR	airside system is equipped with fine, hepa filters. <b>HECTRICAL</b> MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C fanel, Type Tested Assembly (TTA) as per IEC 61439-1462 cobicle type, totally enclosed, free standing type, dast damp and verm in proof panel, powler coated, made up of CRCA sheet, complete with aluminum busbars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strips/rods, necessary interlocking, and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required. Note: AII ACBs should have two sics=two=50 KA for 1 sec.				SUBIOTAL	
260	NDSR	airside system is equipped with fine, hepa filters.  HICTRICAL MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (TIA) as per IEC 61439-1&2 cubicle type, totally enclosed, free standing type, dast, damp and verm in proof panel, powder coated, made up of CRCA sheet, complete with aluminum bashars, danger notice plate, intercornections with sultable capacity aluminum lead/solid aluminum strips/rods, necessary interlocking, and having incoming and outgoing switchparas as mentioned below. Com plete as per technical specifications and as required. Note: All ACIb shall have spare contacts.				SUBIOTAL	
26.0 	NDSR	airsike system is equipped with fine, hepa filters. EIFCTRICAL MAINHVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed, free standing type, dust, damp and verm in proof panel, powder costed, made up of CRCA sheet, complete with aluminum bashars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strip/rod, necessary interlocking, and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required. Note: All AChe shead have key stere=100% Separate fault indication for O/L 5/C, &E/F to be provided on Panel Door				SUBTOTAL	
26.0 	NDSR	airside system is equipped with fine, heps filters. <b>EIFCTRICAL</b> MAINTEVAC PANEL Supply, installation, testing and commissioning of A/C Parel, Type Tested Assembly (ITA), as per IEC 61439-162 cubicle type, totally enclosed free standing type, dast, damp and verm in proof parel, powder coated, made up of CRCA sheet, complete with aluminum bashars, danger notice play, inter-cornections with suitable capacity aluminum leady-solid aluminum strips/rode, necessary interlocking and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required. Note: All ACBs shull have spare contacts All ACBs shull have low-fice-facer50 KA for 1 sec.				SUBTOTAL	
26.0 	NDSR	airsike system is equipped with fine, hepa filters. EIFCTRICAL MAINHVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed, free standing type, dust, damp and verm in proof panel, powder costed, made up of CRCA sheet, complete with aluminum bashars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strip/rod, necessary interlocking, and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required. Note: All AChe shead have key stere=100% Separate fault indication for O/L 5/C, &E/F to be provided on Panel Door				SUB TOTAL	
26.0 i i iii iv	NDSR	airside system is equipped with fine, heps filters. <b>EIFCTRICAL</b> MAINTEVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA), as per IEC 61439-162 cubicle type, totally enclosed free standing type, dast, damp and verm in proof panel, powder coated, made up of CRCA sheet, complete with aluminum bach/solid aluminum intercornections with suitable capacity aluminum leady/solid aluminum strips/rode, necessary interlocking and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required. Note: All ACBs shull have spare contacts All ACBs shull have low-fice-fice-fice- Separate fault infication for O/I, S/C, & E/F to be provided on Panel Door for all outgoing having microprocessor based MCCB All indication I amp will be LED Type.					
26.0	ND5R	airsike system is equipped with fine, hepa filters. EIFCTRICAL MAIN HVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed, free standing type, dust, damp and verm in proof panel, powder coated, made up of CRCA sheet, complete with aluminum bashars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strip/rod, necessary interlocking, and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required. Note: All ACBs shall have spare contacts All ACBs shall have spare contacts All ACBs shall have spare contacts All ACCBs shall have test-eu-100%. Separate fault indication for O/L 5/C, &E/F to be provided on Panel Door for all outgoing having microprocessor based MCCB All indication lamps will be IDD Type. All starters of fits panel shall be provided with digital ampere meter with				SUBTOTAL	
26.0	NDSR	airsike system is equipped with fine, hepa filters.  HICTRICAL  MAIN HVAC PANEL  Supply, iretallation, testing and commissioning of A/C Panel, Type Tested Assembly (TIA) as per IEC 61439-1&2 cubicle type, totally enclosed, free standing type, dust, damp and verm in proof panel, powder coaled, made up of CRCA sheet, complete with aluminum bashars, danger notice plate, intercornections with suitable capacity aluminum leads/solid aluminum strips/rods, necessary interlocking, and having incoming and ougoing swithgarsas as mentioned below. Complete as per technical specifications and as required.  Note: All ACIs shall have spare contacts All ACIs shall have spare contacts All ACIs shall have spare contacts All MCCB shall have kes-key-floy/S Seprate faultination for O/L, S/C, & E/F to be provided on Panel Door for all outgoing having microprocessor based MCCB All indication famps will be LED Type.  All Istarters of this panel shall be provided with digital ampere meter with suitable CTs, thermal overload relay, inbuilt/separate single phase					
26.0	NDSR	airsike system is equipped with fine, hepa filters.  HICTRICAL  MAINIFVAC PANEL  Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (TTA) as per IEC 61439-142 cubicle type, totally enclosed, free standing type, dast, damp and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum baebars, danger notice plate, intercornections with sultable capacity aluminum lead/solid aluminum strip./rods, necessary interlocking, and having incoming and outgoing switchgars as mentioned below. Complete as per technical specifications and as required.  Note: All ACBs shall have surger contacts All ACBs shall have twwestwef50 KA for 1 see. All ACBs shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwestwef50 KA for 1 see. All ACCB shall have twwest					
26.0		akriske system is equipped with fine, heps filters.  EIFCTRICAL  MAINTHVAC PANEL  Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed free standing type, dast, damp and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum busbars, danger notice fake, intercornections with suitable capacity aluminum lead/solid aluminum strips/rode, necessary interlocking and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required.  Note: AII ACIs shall have spare contacts AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall have is selections AII ACIs shall					
26.0		airsike system is equipped with fine, hepa filters.  HICTRICAL  MAINIFVAC PANEL  Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (TTA) as per IEC 61439-142 cubicle type, totally enclosed, free standing type, dast, damp and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum baebars, danger notice plate, intercornections with sultable capacity aluminum lead/solid aluminum strip./rods, necessary interlocking, and having incoming and outgoing switchgars as mentioned below. Complete as per technical specifications and as required.  Note: All ACR6 shall have sequere contacts All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All MCCB shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shall have tww.ses/ucr50 KA for 1 sec. All ACR6 shal					
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26.0 i i ii iv	NDSR	akriske system is equipped with fine, heps filters.  EIFCTRICAL  MAINTHVAC PANEL  Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed free standing type, dast, damp and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum busbars, danger notice fake, intercornections with suitable capacity aluminum lead/solid aluminum strips/rode, necessary interlocking and having incoming and outgoing switchgears as mentioned below. Complete as per technical specifications and as required.  Note: AII ACIs shall have spare contacts AII ACIs shall have tes-descured/05/8 Af Ar I see: AII MCCDs shall having microprocessor based MCCB  AII indication Lampa will be IED Type.  AII andication Lampa will be IED Type.  AII actis spare fault indication for O/L, S/C, & E/F to be provided on Panel Door for all outgoing having microprocessor based MCCB  AII indication Lampa will be IED Type.  AII stathers of this panel shall be provided with digital ampere meter with suitable CTs, thermal overload relay, inbuilt/separate single fbase preventer, contactes, finerers, spare NONE contacts, pash buttors, ON,  OFF, IRLP indication (IED Type) and potential free contacts and relay for					
280 300 300 300 300 300 300 300 300 300 3	ND5R	akriske system is equipped with fine, heps filters.  HETTRICAL  MAINHVAC PANEL Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (ITA) as per IEC 61439-162 cubicle type, totally enclosed free standing type, dust, dump and vermin proof panel, powder coated, made up of CRCA sheet, complete with aluminum busbars, danger notice play, interconnections with suitable caugity aluminum strips/rods, necessary interlocking, and having incoming and outgoing switchgaars as mentioned below. Complete as per technical specifications and as required. Note: All ACDs shall have spare contacts. All ACDs shall have the We wick-shurefor KA for 1 sec. All MCCBs shall have less-fue;100% Separate fault indication for O/L, S/C, & E/F to be provided on Panel Door for all outgoing having microprocessor based MCCB All indication Lamps will be IED Type. All staters of fits panel shall be provided with digital ampere meter with suitable CTs, thermal overlead, relay, induit/separate single phase preventer, contacters, timers, spare MONC contacts, pash huttors, ON, CFF, TRIP indication (IED Type) and potential free contacts and relay for interlocking to FDA etc. com plete as required.					

tem No.	DSR/NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Amount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		
Î	ĺ						
26.1		Main/ Emergency Air-conditioning MCC in plant room					
A		INCOMER			}		
i		2 No. ACB Panels each having f ollowing:					
1	1	800A , 415 V, Motorised, Fully Drawout type (EDO), Four Pole, Air Circuit					
1000		Breaker with microprocessor based overload, short circuit, Instantaneous					
		& Earth Fault trip and lockable trip push button.					
		R, Y & B Phase indicating lam ps (LED type) with 6A control SP MCBs.					
		R, I & DTHASE INDEALING INTERS (ITD type) WINTOR COM OF ST WICHS.					
		Indicating lamps (LED Type) with 6A protection MCBs to indicate OPEN		*****	*****		
	8	CLOSE. TRIP for ACB					
		Push button to Close the ACB.					
l		1 Digital multifunction meter with suitable CTs.					
	I						
B		BUSBARS					
	8	800 Amps TPN busbars of aluminium with temperture rise of 40 degree					
		celsius over and above am bient tem perture of 45 degree celsius.					
	*****			aa	000000000000000000000000000000000000000		
C	1	Bus Coupler					
i l		1 No. ACB Panels each having following:					
	5	800A, 415 V, Motorised, Fully Drawout type (EDO), Four Pole, Air Circuit Breaker with microprocessor based overload, short circuit, Instantaneous					
		& Earth Fault trip and lockable trip push button.					
	1	Indicating lamps (LED Type) with 6A protection MCBs to indicate OPEN,					
		CLOSE, TRIP for ACB.					
		Push button to CLOSE the ACR		aa			
		1 Set of Digital Ammeter with ASS and CTs.					
D		OUT GOING					
i	5	3 Nos. MCCB feeder as per following details/specifications: For Water					
		Chilling Machines 400 Am p, 415 volts, 50 KA, Four Pole, MCCB with Microprocessor based					
	8	400 Am p, 415 voits, 50 KA, Four Foie, MCCB with Microprocessor based release having variable current settings of O/L, S/C & inbuilt E/F					
	R I	release having variable current settings of 0/1, 5/C & induit r/r					
		Extended rotary operating mechanism with door interlock, defeat feature					
8		and padlock facility. MCCB should be with spreader link and phase barriers.					
	2	Indicating lamps (LED Type) with 6A protection MCBs to indicate ON, OFF,					
		TRP. Digital ammeter with selector switch with one set Suitable C.Ts.					
		-					
ü	8	3 Nos. MCCB feeder as per following details/ specifications: For Hot					
		Water Generators					
	2	400 Amp, 415 volts, 50 KA, Four Pole, MCCB with Microprocessor based release having variable current settings of O/L, S/C & inbuilt E/F					
	8	release having variable current settings of O/L, S/C & inbuilt E/F protection					
		ncoection Extended rotary operating mechanism with door interlock, defeat feature					
8		and padlock facility. MCCB should be with spreader link and phase barriers.					
		Indicating lam ps (LED Type) with 6A protection MCBs to indicate ON, OFF,					
		TRIP. Digital ammeter with selector switch with one set Suitable C.Ts.					
		Source and the second switch with the second of C. 15.					
1							
ш	1	3 Nos. MCCB feeder as per following details/specifications:					

Item No.	DSR/ NDSR	Description	Total Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		
00000					6		
		63 Amp 415 volts, ,50 KA FP MCCB with thermal magnetic release having					
20000		variable current settings of O/L, S/C protection.					
	8	Extended rotary operating mechanism with door interlock, defeat feature					
		and padlock facility. MCCB should be with spreader link and phase barriers.					
		3 Phase, fully automatic Star Delta Starter for 10 HP secondary chilled					
		water pumps.					
***************************************		Note, March.					
iv		3 Nos. MCCB feeder as per following details/specifications:					
		32 Amp 415 volts, 50 KA FP MCCB with thermal magnetic release having					
		variable current settings of O/L, S/C protection.					
8000	5	Extended rotary operating mechanism with door interlock, defeat feature					
		and padlock facility. MCCB should be with spreader link and phase barriers.					
	*****			*******			
		3 Phase, fully automatic DOL starter for 7.5 HP Primary Chilled Water					
		Pampe					
v		2 Nos. MCCB feeder as per following details/specifications: For Floor					1
1000		Panels of Air Handling Units					
		100 Am p 415 volts, ,50 KA FP MCCB with ther m al m agnetic r elease having					1
		variable current settings of O/L, S/C protection.					
		Extended rotary operating mechanism with door interlock, defeat feature					
		and padlock facility. MCCB should be with spreader link and phase barriers.					
00000		Indicating lam ps (LED Type) with 6A protection MCBs to indicate ON, OFF,					
		TRIP Digital ammeter with selector switch with one set Suitable C.Ts.					
		ingui unincer muscleeux smeri murste sersuutse e.is.					
	4000400040004			aa			
vi		2 Nos. MCCB feeder as per following details/specifications:					
2000		32 Amp 415 volts, ,50 KA FP MCCB with thermal magnetic release having					
0000		variable current settings of O/L, S/C protection.					
	*****			*******			
8000		Extended rotary operating mechanism with door interlock, defeat feature					
		and padlock facility. MCCB should be with spreader link and phase barriers.					
		Indicating lamps (LED Type) with 6A protection MCBs to indicate ON, OFF,		******			1
		TRP.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					1
		Main HVAC panel Com plete as above	1	Panel			
			1	ranel			
26.2	NDSR	AHU Distribution Panels					l
		Supply, installation, testing and commissioning of following M.V. cubicle type		******			
0000		totally enclosed, wall mounted/Free standing type, powder coated, dust					
		damp and verm in proof, indoor type Distribution Board/Panel complete with	5				8
		busbars, M.V. danger notice plate, interconnections with suitable capacity					
	5	alum inium leads/solid alum inium strips/rods, connection of incoming and					
		outgoing cables with thim bles, and having following incoming and outgoing					
		switchgears com plete as per techinical specification and as required.					
		smengen s compete as per technical specification and is required.					
			]	L			I
	*****	NOTE					
i		All MCCBs shall have ks=kcu=100%					
8		100 VA transformer 220v/24v AC for control wiring with 10 no.s 6A SP					
ш							
0000		MCB 10 KA in all AHU panel is also in the scope of supply				1	8

1     2     3     3     4     5     Ref       1     2     3     Added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of added spin point of ad	Jo. D	SR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
No.         No.         No.         No.           a         Array sharts sharts sharts sharts and sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts sharts and sharts and sharts sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and sharts and		8			8 8	8		
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30/A TIN Aluminim bas bar 415V, 50 Hz.     Image: Constraint of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second								<u> </u>
30 A TIN Aluminim be be 415V, 50 Hz     Image: Solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solut	-		Rus Rar					
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i     3 set-32 A, 415 volls, 10 KA C- Curve, Four Ible, Miniature Circuit Recolar:     i     i       iii     3 base, fully automatic DOI. Surfer for 5/7.5 HP AHU motor as required.     i       iii     2 set-32 A, 415 volls, 10 KA C- Curve, Four Ible, Miniature Circuit Recolar for Humikfler / Morseon Reheater as required.     iiii       iii     2 set-32 A, 415 volls, 10 KA C- Curve, Four Ible, Miniature Circuit Recolar for Humikfler / Morseon Reheater as required.     iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Ť	, in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s						
Incalar     Incalar     Image: All y automatic DOI. Starter for 5/75 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/75 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/75 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/75 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/75 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/75 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/15 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/15 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/15 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/15 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/15 HP AHU motor as required     Image: All y automatic DOI. Starter for 5/15 HP AHU motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as required     Image: All y automatic DOI. Starter for 5 HP Ventilation fun motor as r	1							
iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	T		3 set - 32 A, 415 volts, 10 KA C-Curve, Four Pole, Miniature Circuit					
iii     2 set-32 A, 415 volbs, 10 KA C- Curve, Four Pole, Miniature Circuit Realer for Humikifier/Morscon Reheater as required.     iii     2 set-16 A, 415 volbs, 10 KA C- Curve, Four Pole, Miniature Circuit Realer 3 Paces, fully automatic DOL Sarker for 2 HP Ventilation fan moter as required.     iii     iii			Breaker					l
iii     Preaker for Humiddlier/Morsson Reheater as required.       iii     2 set-16 A, 415 volls, 10 KA C- Curve, Four Pole, Miniature Circuit       Preaker     Preaker       iii     3 Prease, fully automatic DOL Starter for 2 HP Ventilation fan motor as required.			3 Phase, fully automatic DOL Starter for 5/7.5 HP AHU motor as required.					
iii     Preaker for Humiddlier/Morsson Reheater as required.       iii     2 set-16 A, 415 volls, 10 KA C-Curve, Four Pole, Miniature Circuit       Preaker     Preaker       iii     2 set-16 A, 415 volls, 10 KA C-Curve, Four Pole, Miniature Circuit       Preaker     Preaker       iii     3 Prease, fully automatic DOL Sarter for 2 HP Ventilation fan moter as required.	-							
iii     Preaker for Humiddlier/Morsson Reheater as required.       iii     2 set-16 A, 415 volls, 10 KA C-Curve, Four Pole, Miniature Circuit       Preaker     Preaker       iii     2 set-16 A, 415 volls, 10 KA C-Curve, Four Pole, Miniature Circuit       Preaker     Preaker       iii     3 Prease, fully automatic DOL Sarter for 2 HP Ventilation fan moter as required.	fr		2 set - 32 A. 415 volts, 10 KA C- Curve, Four Pole, Miniature Circuit		h			
iii 2 set-16 A, 415 volls, 10 KA C- Curve, Four Pole, Miniature Circuit Ureabur 3 Phase, fully automatic DOL Sarter for 2 HP Ventilation fan motor as rentited		1						
Itratier. 3 Phase, fully automatic DOL Starter for 2 HP Ventilation fan motor as resulted	mfm							
Itratier. 3 Phase, fully automatic DOL Starter for 2 HP Ventilation fan motor as resulted	-		2 set - 16 A, 415 volts, 10 KA C-Curve, Four Pole, Miniature Circuit					
3 Phase, fully automatic DOL Starter for 2 HP Ventilation fan motor as resulted	1		Breaker					1
	T	1	3 Phase, fully automatic DOL Starter for 2 HP Ventilation fan motor as					1
Complete namel as abrows 2 Panel			required		ļ			
		1	Com plete panel as above	2	Panel			
	÷							1
26.2.3 AliPit-01	T		AHP-FF-01					1
INCOME:			INCOMER :		(			8

Item No.	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figure)		
	-	3		5	6		
		1 nos. 100 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release			ů	8 9	
		having variable current settings of O/L, S/C protection.					
		in this via a bit can relative angly of 0/12/0/ c protection					
		R,Y&B phase indicating lamp (LED type) with 6A control SPMCB & ON					
		OFF, TRIP Indication.					8
~~~~		1 No. 0 to 500 V Digital voltmeter with selector switch.					å
	[	Digital ammeter with selector switch with one set Suitable C.Ts.					<u> </u>
		Dignal antitreter wurselector switch wurone set Suitable C. Is.					8
				******			1
~~~~		Bus Bar					
000000000000000000000000000000000000000		300 A TPN Alum inium bus bar 415V , 50 Hz.	0400040004000400	aa			
		OUT GOINGS:					<u></u>
i	5 R	2 Set-63 Amp 415 volts, ,35 KA FP MCCB with thermal magnetic release					8
		having variable current settings of O/L, S/C protection.					
		3 Phase, fully automatic Star Delta Starter for 12.5 HP AHU motor as					
		required					<u> </u>
ü		4 set - 16 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit					
		Breaker. 3 Phase, fully automatic DOL Starter for 0.75/1.5 HP Ventilation fan motor					
		as required	1	Panel		***************************************	1
		compare parents above					§
26.2.4		AHPFF-02 INCOMER :					8
		1 nos. 100 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release					
		having variable current settings of O/L, S/C protection.					8
		naving variable current settings of O/1, 5/C protection.					8
		R,Y&B phase indicating lamp (LED type) with 6A control SPMCB & ON,					§
		OFF, TRIP Indication.					
		1 No. 0 to 500 V Digital voltmeter with selector switch.					
	lange and the second second	Digital ammeter with selector switch with one set Suitable C.Ts.					
		Digital ammeter with selector switch with one set Suitable C.1s.					8
				aa			
		Bus Bar					
		300 A TPN Alum inium bus bar 415V , 50 Hz.					
							1
		OUT GOINGS:					
							į
i		3 set - 32 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit					
	berrooreneered	Breaker.		L			
		3 Phase, fully automatic DOL Starter for 5/7.5 HP AHU motor as required.					
							Į
ü		3 set - 16 A, 415 volts, 35 KA C-Curve, Four Pole, Miniature Circuit					
		Breaker. 3 Phase, fully automatic DOL Starter for 1.5/2 HP Ventilation fan motor as					
		required					
		Com plete panel as above	1	Panel		^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>.</u>
							Į
	L						
26.2.5		AHP-SE-01, TE-01, 4E-01, 5E-01					ļ
		INCOMER :					
		1 nos. 63 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release					
		having variable current settings of O/L, S/C protection.					
							<u>.</u>
		R,Y&B phase indicating lamp (LED type) with 6A control SPMCB & ON,					
	homosomo con a constant de la constant de la constant de la constant de la constant de la constant de la consta	OFF, TRIP Indication.					Į
		1 No. 0 to 500 V Digital voltmeter with selector switch.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					
				h			
	l				ι	ā	8

N In	CD (NDCD	Description Total Qty Unit Rate in Rs. (in Rate in Rs. (in Rate in Rs. (in words) 7		Amount (Rs.) 8			
tem No. D	8			8 1	8	Kate in K.S. (in words) /	Amount (KS.) 8
1	2	3	4	5	Figur e)		
		P P			6		
		Bus Bar 300 A IPN Alum inium bus bar 415V , 50 Hz.					
		500 A 111 Additional Des Der #15 v , 50 FZ.		t			
		OUT GOINGS:		******			
		4 set - 16 A, 415 volts, 10 KA C-Curve, Four Pole, Miniature Circuit					
i	1	Breaker					
1	1	3 Phase, fully automatic DOL Starter for 1/1.5/3 HP Ventilation fan motor as					
		required					
8	1	Complete panel as above	4	Panel			8
26.2.6		AHP:6F-01, 7F-01					
		INCOMER :	0400040004000400	*****			
l	1	1 nos. 63 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release					
		having variable current settings of O/L, S/C protection.					
	T	R,Y&B phase indicating lamp(LED type) with 6A control SPMCB & ON					
		OFF, TRIP Indication.					
1	1	1 No. 0 to 500 V Digital voltmeter with selector switch.					
		Digital ammeter with selector switch with one set Suitable C.Ts.	000000000000000000000000000000000000000	*****			
		-					
		Bus Bar	000000000000000				
		300 A TPN Alum inium bus bar 415V , 50 Hz.					
			000000000000000000000000000000000000000				
		OUT GOI NGS :		ļ			
				J			
i		2 set - 32 A, 415 volts, 35 KA C-Curve, Four Pole, Miniature Circuit					
	000000000000000000000000000000000000000	Breaker.					
		3 Phase, fully automatic DOL Starter for 7.5 HP AHU motor as required.					
ii 🖡		3 set - 16 A, 415 volts, 35 KA C-Curve, Four Pole, Miniature Circuit					
	ž.	Breaker					
		3 Phase, fully automatic DOL Starter for 0.75/1/2 HP Ventilation fan motor	~~~~	· · · · ·			
		as required					
1		Com plete panel as above	2	Panel			
			000000000000000000000000000000000000000				
26.2.7		AHP- GF-01, 6F-02					
1		INCOMER :	~~~~~				
- T		1 nos. 125 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release		1			
6000R	5	having variable current settings of O/L, S/C protection.					ł
1	1	R,Y&B phase indicating lamp(LED type) with 6A control SPMCB & ON,					
		OFF, TRIP Indication.					
		1 No. 0 to 500 V Digital voltmeter with selector switch.	0400040004000***				
		Digital ammeter with selector switch with one set Suitable C.Ts.					
				ļ			
		Bus Bar	*****	ļ			
		300 A TPN Alum inium bus bar 415V , 50 Hz.					
		OUT GOINGS:		······			
i		3 set - 32 A, 415 volts, 10 KA C-Curve, Four Pole, Miniature Circuit					
· [	8	Presker					
		3 Phase, fully automatic DOL Starter for 5/7.5 HP AHU motor as required.		· · · · · ·			
		· · · · · ·					
			0000000000000				
ü		2 set - 32 A, 415 volts, 10 KA C- Curve, Four Pole, Miniature Circuit					
		Breaker for Humidifier/Monsoon Reheater as required.					
		2 set - 16 A, 415 volts, 10 KA C- Curve, Four Pole, Miniature Circuit					
iii 📔	8.						
ii L		Breaker		ļ			
iii							

Item No	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Amount (Rs.) 8
1	2	3	4	5	Figure)		
	-	3	-		11gar e) 6		
-		Com plete panel as above	2	Panel	Ŭ		
			-				
				ļ			
26.2.8		AHP-7F-02 INCOMER :		<u></u>			
		1 nos. 200 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release	~~~~~	<u></u>			
	. 5	having variable current settings of O/L, S/C protection.					
		in this via a bit can relative angly of 0/12/0/ c protection					
		R,Y&B phase indicating lamp (LED type) with 6A control SPMCB & ON,					
		OFF, TRIP Indication.					
		1 No. 0 to 500 V Digital voltmeter with selector switch.		8			
		Digital ammeter with selector switch with one set Suitable C.Ts.	~~~~~				
				ļ			
		Bus Bar		§			
		300 A TPN Alum inium bus bar 415V , 50 Hz.		Ş			
		OUT GOINGS :		ş			
				§			
i		2 Set-63 Amp 415 volts, ,35 KA FPMCCB with thermal magnetic release		<u>†</u>			
	. R	having variable current settings of O/L, S/C protection.					
		3 Phase, fully automatic Star Delta Starter for 10 HP AHU motor as		<u>.</u>			
		required					
ü		4 set - 32 A, 415 volts, 10 KA C- Curve, Four Pole, Miniature Circuit					
		Breaker		ļ			
		3 Phase, fully automatic DOL Starter for 5 HP AHU motor as required.					
ii		6 set - 32 A, 415 volts, 10 KA C-Curve, Four Pole, Miniature Circuit					
		Breaker for Hum idifier / Monsoon Reheater as required.					
		a case of fundance/ monocontrestance of required					
iv		3 set - 16 A, 415 volts, 10 KA C-Curve, Four Pole, Miniature Circuit		§			
	1	Breaker.					
		3 Phase, fully automatic DOL Starter for 3 HP Ventilation fan motor as					
		reatired		Į			
		Com plete panel as above	1	Panel			
			000000000000000000000000000000000000000				
26.2.9		Panel for Outdoor Units of VRV System for Teaching Block					
		INCOMER :		ļ			
	8	1 no 630 Am p, 415 volts, 35 KA, Four Pole MCCB Microprocessor based					
		release with variable current settings of O/L, S/C, E/F.		00000			
				}			
		All incomers and outgoings should have Extended rotary operating					
		mechanism with door interlocking with defeat feature and padlock facility.					
		MCCBshould have sureader links & phase barriers R,Y&B phase indicating lamp (LED type) with 6A control SPMCB & ON		Ì			
		OFF. TRIP. Indication		S			
		1 No. 0 to 500 V Digital voltmeter with selector switch.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					
			*****	ļ			
				ļ			
		Bus Bar		{			
		800 A TPN Alum inium bus bar 415V , 50 Hz.					
		OUTGOINGS:		<u>}</u>			
i		20 Set-63 Amp415 volts, 35 KA FP MCCB, ELCB- 300 mA with thermal		<u> </u>			
		magnetic release having variable current settings of O/L, S/C protection for		8			
		outdoor units of VRV system.		8			
				1			
				Į			
ü	8	1 Set-63 Amp 415 volts, 35 KA FPMCCB with thermal magnetic release		8			
		having variable current settings of O/L, S/C protection for spare purpose.		8			
				ļ			
		Com plete panel as above	1	Panel			

1 27.0 27.1 N 27.1.1		Description 3	Total Qty 4	5	Figur e)		
27.1 N							8
27.1 N					6		
27.1 N		САВШNG					
	NDSR						
27.1.1		LT CABLES					
27.1.1		Supply of following sizes of 1.1 kV grade multicore aluminium conductor PVC sheathed arm oured XLPE cable as per IS 7098.					
	~~~~	3.5 Core 25 Sqmm.	700	Metre			
27.1.2		3.5 Core 35 Sqm m.	50	Metre			
27.1.3		3.5 Core 50 Sqm m.	400	Metre			
27.1.4		3.5 Core 70 Sqm m .	50	Metre			
27.1.5	1	3.5 Core 150 Sqmm.	50	Metre			
27.1.6		3.5 Core 240 Sqm m.	50	Metre			
27.1.7		3.5 Core 300 Sqm m .	200	Metre			
27.1.8		4 Core 16 Sq mm	50	Metre			
27.1.9		4 Core 10 Sq mm					
27.1.10			50	Metre			
		4 Core 6 Sq m m	200	Metre			
27.1.11		4 Core 4 Sqmm.	300	Metre			
27.1.12		3 Core 4 Sqm m.	1000	Metre			
		Lucino and fining of any merican DVC involuted and DVC should all VIDE					
27.2		Laying and fixing of one number PVC insulated and PVC sheathed/XLPE powe cable of 1.1 KV grade of following size on cable tray as required.					
27.2.1 7	7.8.1	Up to 35 sq.mm (clamped with 1mm thick saddle)	1300	Metre			
27.2.2 7	7.8.2	Above 35 Sqmm and upto 95 Sqmm (clamped with 25 X 3mm MS flat clamp)	350	accoaccoac Metre			
27.2.3 7	7.8.3	Above 95 Sq mm and up to 185 Sq mm (clamped with 25/40x3mm MS flat	50	Metre			
27.2.4 7	7.8.4	Above 185 Sq mm and up to 400 Sq mm (clamped with 40x3mm MS flat clamp)	250	Metre			
27.3	9.1	Supplying and making end termination with brass compression gland and Aluminium lugs for following sizes of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
27.3.1 9	9.1.20	3.5 Core 25 Sqm m.		Each			
	~~~~	3.5 Core 35 Sqmm.	25 50	Each coccoccocco Each			
27.3.3 9	9.1.22	3.5 Core 50 Sqmm.	50	Each			
27.3.4 9	9.1.24	3.5 Core 95 Sqm m .	25	Each			
27.3.5 9	9.1.27	3.5 Core 185 Sqm m.	15	Each			
27.3.6 9	9.1.29	3.5 Core 240 Sqm m.	10	Each			
27.3.7 9	9.1.30	3.5 Core 300 Sqm m.	10	Each		***************************************	
27.3.8 9	~~~~	4 Core 16 Sq m m	10	Each			
27.3.9 9		4 Core 105q m m	20	Each			
27.3.10	NDSR	4 Core 6 Sq mm	20	Each		*****	
		4 Core 4 Sạm m.	50	Each Each		***************************************	
27.3.12	NDSR	3 Core 4 Sqmm.	20	Each			
					]		
28.0 N	NDSR	CABIETRAYS					

Item No.	DSR/ NDSR	Description	Total Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		
					6		0000
		Supply & installation of following sizes of perforated MS cable trays including					
00000		horizontal & vertical bends, reducers, tees, cross members and other					
000000		accessories as required and duly supported from the ceiling/wall/floor with					
		MS suspenders/supports and including painting etc. as required					
28.1		300 mm widthx50 mm deep x1.6 mm thickness	100	Mtr			
28.2		200 mm widthx50 mm deep x1.6 mm thickness	100	Mtr			
28.3		150 mm widthx50 mm deep x1.6 mm thickness	200	Mtr			
28.4		100 mm widthx50 mm deep x1.6 mm thickness	200	Mtr		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
			200	witt			
1		Fabrication and Installing following size of Ladder type M.S. Cable tray					
50050		including Horizontal and vertical bends, reducers, tee, crossmember and					
29.0							
000000		other accessories as required and duly Suspended from the ceiling with M.S					
		12 mm rod suspenders and including painting etc. as required.					
29.1		450 mm width x 62.5 mm depth x 2.0 mm thickness	100	Mtr			
29.2		600 mm width x 62.5 mm depth x 2.0 mm thickness	100	Mtr			
30.0		EARTHING					
		Ear thing with GI plate $600 \text{ mm} \times 600 \text{ mm} \times 600 \text{ mm}$ thick including accessories,					
30.1		and providing masonary enclosure with cover plate having locking					
30.1		arrangement and watering pipe of 2.7 meter long etc. with charcoal/coke					
		and salt as required.	4	Set			
		Providing and fixing 25mmX5mm GI strip on surface or in recess for					
30.2	5.15	connections etc. as required.	200	Mtr			
1							
30.3	NDSR	Providing and fixing GI earth strip on walls/ trenches complete as per					
		specifications and as required					
30.3.1		50m m x 5m m	80	Mtr			
30.3.2		25mm x 3mm		Mtr			
			80	Mtr			
30.4		Providing and fixing earth wire of complete as per specifications as		·····			*****
30.4		required					l
30.4.1	5.18	COUP			l		
	*****	6 SWG wire	100	Mtr			
30.4.2	NDSR	8 SWG wire	300	Mtr			
	NDOD						 
31.0	NDSR	CONTROL CABLING					
1		Supply, laying, effecting proper connections, testing & commissioning of 1.5					[
		sq.m.m. PVC insulated copper multicore cables from AHU's and AC					
		equipm ents to central control console					
		comparents in certa at CORE OF CORONE					
31.1		10 core cable	500	Mtr			[
31.2		8 core cable	2000	Mtr			
31.3		6 core cable		*****			
······		~~~~~	100	Mtr			
31.4		3 core cable	100	Mtr			<u> </u>
31.5		2 core cable	200	Mtr			
32.0	NDSR	CONTROL CONSOLE/DESK					
				·····	κ	A	х

Item No.	DSR/ NDSR	Description	T otal Qty	Unit	Rate in Rs. (in	Rate in Rs. (in words) 7	Am ount (Rs.) 8
1	2	3	4	5	Figur e)		8
					6		0000
		Supplying, installation, testing & commissioning of floor mounted desk type					
		control console cum indicating panel in the A.C. plant room containing					0
		various indications and controls for the complete air-conditioning system					
		comprising chilling units, chilled/ Hot/ condenser water pumps, cooling					00000
		towers , Ex. blower, Fans etc , Hot water generator with test push button					
		facility. The panel shall be fabricated from minimum 1.6mm thick M.S.					
		powder coated sheet of approved design. The air-conditioning module of the					
		central control cum indicating panel shall contain the following accessories.					
		Status indication (ON, OFF & fault) of each compressor for each chilling					8
	5	machine, hot water boiler etc.					
	3 1	Push buttons and indicating lamps for remote start & stop and status	4 4				2000
		indication for every nos of the water circulating pumps, Ex blower, Fans					
		Push buttons and indication lamps for remote start & stop and status		******	04000400040004000400040004000		
							8
		indication (On, Off & Fault) for every nos. cooling tower motors and low					000000
		water level indication for every Nos. cooling towers.					
		Hooter and flashing lamp to indicate operation of any safety/shut down with					
		necessary contactors, accept, reset and test push buttons.					
		Complete wiring with copper conductor PVC insulated multicore 2.5					Į
		sq.mm stranded cable (excluding supply of cable, tray, clamps etc) from					
		various equipments in the A.C. plant room, AHU's Terrace plant room and					<u>}</u>
	1	cooling towers etc to the control console panel as required.					
	han a start a start a start a start a start a start a start a start a start a start a start a start a start a s	Complete Panel As above for Following blocks					
		Complete rate: AS above for Following blocks					1
		For Plant room	1	Panel		***************************************	
							<u>.</u>
						SUBTOTAL	

	Teaching & New Hospital Block at Chamba (	<u>H.P.)</u>
	SUMMARY SHEET FOR HVAC WORKS	
SECTION	DESCRIPTION OF WORK	AMOUNT(Rs.)
Α	EQUIPMENTS	
В	PIPING	
С	AIR DISTRIBUTION	
D	ELECTRICAL	
	GRAND TOTAL	

Const	Construction of Dr. Y. S. Parmar Government Medical College at Nahan, District Sirmour, Himachal Pradesh & Pt. Jawaharlal Nehru Govt. Medical College at Chamba, District Chamba, Himachal Pradesh										
	Name of Contractor/Firm										
SR.NO	Name of Head	Total Quoted Amount (In Indian Rupees)	Discount if any(%)	Discounted Value	Amount after discount(Rs.)						
1	CIVIL-CHAMBA										
2	PHE-CHAMBA										
3	FIRE-CHAMBA										
4	ELECTRICAL-CHAMBA										
5	НУАС-СНАМВА										
	Total in Figures (in Rs.)										