

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:						
		INCOMER:						
		63A TPN MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection						
		Independent manual spring closing mechanism						
		Knob -1Nos						
		Spreader Links For 3P MCCB 63A -2 sets						
		Phase Barrier For MCCB 63A-1Nos						
		Aux Contact Block For MCCB 63A-1set						
		Digital Ammeter+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos						
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB						
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB						
		TPN MCB 6 Amps-1Nos						
		Shunt trip coil-220V AC						
		BUSBARS:						
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		18Nos. 25A DP MCB						
		2Nos. 63A TPN MCB						
4.21	NSR	<b>MAIN LIGHTING PANEL-02-PG BOYS (MLP-02-PGB)</b>	JOB	1	-	-	63,093	63093
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:						
		INCOMER:						
		63A TPN MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection						
		Independent manual spring closing mechanism						
		Knob -1Nos						
		Spreader Links For 3P MCCB 63A -2 sets						
		Phase Barrier For MCCB 63A-1Nos						
		Aux Contact Block For MCCB 63A-1set						
		Digital Ammeter+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos						
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB						
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB						
		TPN MCB 6 Amps-1Nos						
		Shunt trip coil-220V AC						
		BUSBARS:						
		300Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		17Nos. 25A DP MCB						
		2Nos. 63A TPN MCB						
4.22	NSR	<b>COMMON SERVICE POWER PANEL-PG GIRLS (CSPP-PGG)</b>	JOB	1	-	-	2,51,767	251767
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:						
		INCOMER:						
		400A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection						
		Surge Protection device-1no						
		Independent manual spring closing mechanism						
		Extended Rotary Handle Mechanism -1Nos						
		Spreader Links For 3P MCCB 400A -2 sets						

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Phase Barrier For MCCB 400A-1Nos	-	-				
		Aux Contact Block For MCCB 400A-1set	-	-				
		Digital Ammeter+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos	-	-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB	-	-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB	-	-				
		TPN MCB 6 Amps-1Nos	-	-				
		Shunt trip coil-220V AC	-	-				
		BUSBARS:						
		630 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		2Nos 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets						
		Independent manual spring closing mechanism-2sets						
		Knob -2Nos						
		Spreader Links For TPN MCCB 100A -4sets						
		Phase Barrier For MCCB 100A-2Nos	-	-				
		Aux Contact Block For MCCB 100A-2set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos	-	-				
		TPN MCB 6 Amps-2Nos	-	-				
		Shunt trip coil-220V AC-2Nos	-	-				
		1No 63A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set						
		Independent manual spring closing mechanism-1set						
		Extended Rotary Handle Mechanism -1No						
		Spreader Links For TPN MCCB 63A -2sets						
		Phase Barrier For MCCB 63A-1No	-	-				
		Aux Contact Block For MCCB 63A-1set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-1No	-	-				
		TPN MCB 6 Amps-1No	-	-				
		Shunt trip coil-220V AC-1No	-	-				
		14Nos. 63A TPN MCB	-	-				
		14Nos. 40A TPN MCB	-	-				
4.23	NSR	<b>GYSER PANEL-PG GIRLS (GYSER PANEL-PGG)</b>	JOB	1	-	-	1,89,887	189887
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:						
		INCOMER:						
		630A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection						
		Surge Protection device-1no						
		Independent manual spring closing mechanism						
		Extended Rotary Handle Mechanism -1Nos						
		Spreader Links For 3P MCCB 630A -2 sets						
		Phase Barrier For MCCB 630A-1Nos	-	-				
		Aux Contact Block For MCCB 630A-1set	-	-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos	-	-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB	-	-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB	-	-				
		TPN MCB 6 Amps-1Nos	-	-				
		Shunt trip coil-220V AC	-	-				
		BUSBARS:						
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		16Nos. 63A TPN MCB	-	-				
		1No 160A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set						
		Independent manual spring closing mechanism-1set						
		Knob -1No						
		Spreader Links For TPN MCCB 160A -2 sets						
		Phase Barrier For MCCB 160A-1No	-	-				
		Aux Contact Block For MCCB 160A-1set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos	-	-				
		TPN MCB 6 Amps-2Nos	-	-				
		Shunt trip coil-220V AC-2Nos	-	-				
		1No 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set						
		Independent manual spring closing mechanism-1set						

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Knob -1No		-				
		Spreader Links For TPN MCCB 100A -2 sets		-				
		Phase Barrier For MCCB 100A-1No		-				
		Aux Contact Block For MCCB 100A-1set		-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-				
		TPN MCB 6 Amps-2Nos		-				
		Shunt trip coil-220V AC-2Nos		-				
		<b>Total Carried to Summary</b>		-				
4.24	NSR	<b>EMERGENCY POWER PANEL-PG GIRLS (EPP-PG GIRLS)</b>	JOB	1	-	-	1,04,347	104347
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		1No 250A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-1sets		-				
		Extended Rotary Handle Mechanism -1No.		-				
		Spreader Links For 4P MCCB 250A -2 sets		-				
		Phase Barrier For MCCB 250A-1No		-				
		Aux Contact Block For MCCB 250A-1set		-				
		Digital Ammeter with Builtin Selector Switch		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-2Nos		-				
		Shunt trip coil-220V AC-2Nos		-				
		<b>BUSBARS:</b>		-				
		400 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		<b>OUTGOING:</b>		-				
		6Nos. 40A TPN MCB		-				
		16Nos. 25A DP MCB		-				
		2Nos. 63A TPN MCB		-				
4.25	NSR	<b>COMMON SERVICE POWER PANEL-PG MARRIED (CSPP-PGM-01)</b>	JOB	1	-	-	2,77,853	277853
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		1No 630A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor based release (EMI & EMC certified) for overcurrent & short circuit protection ,Earth fault protections-1set		-				
		Surge Protection device-1no		-				
		Independent manual spring closing mechanism-1set		-				
		Extended Rotary Handle Mechanism -1No		-				
		Spreader Links For 4P MCCB 630A -2 sets		-				
		Phase Barrier For MCCB 630A-1No		-				
		Aux Contact Block For MCCB 630A-1set		-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1No		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1No		-				
		Shunt trip coil-220V AC-1No		-				
		<b>BUSBARS:</b>		-				
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		<b>OUTGOING:</b>		-				
		8Nos 125A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-8sets		-				
		Independent manual spring closing mechanism-8sets		-				
		Knob -8Nos		-				
		Spreader Links For TPN MCCB 100A -16sets		-				
		Phase Barrier For MCCB 100A-8Nos		-				
		Aux Contact Block For MCCB 100A-8set		-				
		LED Type Indicating lamps On with 2A back up MCB-8Nos		-				
		TPN MCB 6 Amps-8Nos		-				
		Shunt trip coil-220V AC-8Nos		-				
		1Nos. 25A TPN MCB		-				
		3Nos. 40A TPN MCB		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		1No 125A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set		-				
		Independent manual spring closing mechanism-1set		-				
		Knob -1No		-				
		Spreader Links For TPN MCCB 125A -2 sets		-				
		Phase Barrier For MCCB 125A-1No		-				
		Aux Contact Block For MCCB 125A-1set		-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-				
		TPN MCB 6 Amps-2Nos		-				
		Shunt trip coil-220V AC-2Nos		-				
4.26	NSR	<b>COMMON SERVICE POWER PANEL-PG MARRIED (CSPP-PGM-02)</b>	JOB	1	-	-	2,77,853	277853
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		1No 630A 4P TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor based release (EMI & EMC certified) for overcurrent & short circuit protection Earth fault protections-1sets		-				
		Independent manual spring closing mechanism-1set		-				
		Surge Protection device-1no		-				
		Extended Rotary Handle Mechanism -1No		-				
		Spreader Links For 4P MCCB 630A -2 sets		-				
		Phase Barrier For MCCB 630A-1No		-				
		Aux Contact Block For MCCB 630A-1set		-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1No		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1No		-				
		Shunt trip coil-220V AC-1No		-				
		BUSBARS:		-				
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		8Nos 125A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-8sets		-				
		Independent manual spring closing mechanism-8sets		-				
		Knob -8Nos		-				
		Spreader Links For TPN MCCB 125A -16sets		-				
		Phase Barrier For MCCB 125A-8Nos		-				
		Aux Contact Block For MCCB 125A-8set		-				
		LED Type Indicating lamps On with 2A back up MCB-8Nos		-				
		TPN MCB 6 Amps-8Nos		-				
		Shunt trip coil-220V AC-8Nos		-				
		4Nos. 40A TPN MCB		-				
		1No 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set		-				
		Independent manual spring closing mechanism-1set		-				
		Knob -1No		-				
		Spreader Links For TPN MCCB 100A -2 sets		-				
		Phase Barrier For MCCB 100A-1No		-				
		Aux Contact Block For MCCB 100A-1set		-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-				
		TPN MCB 6 Amps-2Nos		-				
		Shunt trip coil-220V AC-2Nos		-				
4.27	NSR	<b>EMERGENCY POWER PANEL-PG GIRLS (EPP-PGM)</b>	JOB	1	-	-	69,767	69767
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		1Nos 160A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		Knob -1Nos		-				
		Spreader Links For 4P MCCB 160A -2 sets		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Phase Barrier For MCCB 160A-1Nos		-				
		Aux Contact Block For MCCB 160A-2set		-				
		Digital Ammeter with Builtin Selector Switch		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1No		-				
		Shunt trip coil-220V AC-1No		-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		6Nos. 40A TPN MCB		-				
		2Nos. 63A TPN MCB		-				
		2Nos. 25A DP MCB		-				
4.28	NSR	<b>FLOOR METERING PANEL (FMP -PGM-GF)</b>	JOB	1	-	-	3,29,420	329420
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:		-				
		1Nos 125A TPN MCCB of short circuit capacity of 16KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		Knob -1Nos		-				
		Spreader Links For TPN MCCB 125A -2 sets		-				
		Phase Barrier For MCCB 125A-1Nos		-				
		Aux Contact Block For MCCB 125A-2set		-				
		Dual Source energy meter with RS 485 PORT 96sqmm With Builtin Selector Switch for current rating selection . CL-1-2Nos		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1No		-				
		Shunt trip coil-220V AC-1No		-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 16KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		Dual source KWH meter, Class-1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required. LED Type ON Indicating lamps with 2A back up MCB		-				
		OUTGOING:		-				
		12Nos. 40A DP MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required. LED Type ON Indicating lamps with 2A back up MCB		-				
		5Nos. 25A DP MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class-1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required. LED Type ON Indicating lamps with 2A back up MCB		-				
		2Nos. 40ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required. LED Type ON Indicating lamps with 2A back up MCB		-				
		1Nos. 63ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-80A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required. LED Type ON Indicating lamps with 2A back up MCB		-				
4.29	NSR	<b>FLOOR METERING PANEL (FMP -PGM-1F TO FMP-PGM-7F / FMP-PGM-9F / FMP-11F/FMP-12F)</b>	JOB	10	-	-	2,55,407	2554070
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:		-				
		1Nos 125A TPN MCCB of short circuit capacity of 16KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Independent manual spring closing mechanism-2sets		-				
		Knob -1Nos		-				
		Spreader Links For TPN MCCB 125A -2 sets		-				
		Phase Barrier For MCCB 125A-1Nos		-				
		Aux Contact Block For MCCB 125A-2set		-				
		Dual Source energy meter with RS 485 PORT 96sqmm With Builtin Selector Switch for current rating selection , CL-1-2Nos		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1No		-				
		Shunt trip coil-220V AC-1No		-				
				-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 16KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
				-				
		OUTGOING:		-				
		12Nos. 40A DP MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
		1Nos. 32A DP MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class-1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
		2Nos. 40ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
		1Nos. 63ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-80A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
4.30	NSR	<b>FLOOR METERING PANEL - FMP-PGM-8F</b>	JOB	1	-	-	2,34,173	234173
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		1Nos 125A TPN MCCB of short circuit capacity of 16KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		Knob -1Nos		-				
		Spreader Links For TPN MCCB 125A -2 sets		-				
		Phase Barrier For MCCB 125A-1Nos		-				
		Aux Contact Block For MCCB 125A-2set		-				
		Dual Source energy meter with RS 485 PORT 96sqmm With Builtin Selector Switch for current rating selection , CL-1-2Nos		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1No		-				
		Shunt trip coil-220V AC-1No		-				
				-				
		BUSBARS:		-				
		300Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 16KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
				-				
		OUTGOING:		-				
		10Nos. 40A DP MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
		1Nos. 40ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
		1Nos. 63ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-80A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
4.31	NSR	<b>FLOOR METERING PANEL - FMP-PGM-5F/FMP-PGM-10F</b>	JOB	2	-	-	2,58,440	516880
				-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:	-	-				
		1Nos 125A TPN MCCB of short circuit capacity of 16KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		Knob -1Nos		-				
		Spreader Links For TPN MCCB 125A -2 sets		-				
		Phase Barrier For MCCB 125A-1Nos		-				
		Aux Contact Block For MCCB 125A-2set		-				
		Dual Source energy meter with RS 485 PORT 96sqmm With BuiltIn Selector Switch for current rating selection , CL-1-2Nos		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1No		-				
		Shunt trip coil-220V AC-1No		-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 16KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		12Nos. 40A DP MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
		2Nos. 25A DP MCB		-				
		1Nos. 40ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
		1Nos. 63ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-80A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
4.32	NSR	<b>FLOOR METERING PANEL - FMP-PGM-13F</b>	JOB	1	-	-	1,34,073	134073
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:	-	-				
		1Nos 100A TPN MCCB of short circuit capacity of 16KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		Knob -1Nos		-				
		Spreader Links For TPN MCCB 100A -2 sets		-				
		Phase Barrier For MCCB 100A-1Nos		-				
		Aux Contact Block For MCCB 100A-2set		-				
		Dual Source energy meter with RS 485 PORT 96sqmm With BuiltIn Selector Switch for current rating selection , CL-1-2Nos		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1No		-				
		Shunt trip coil-220V AC-1No		-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 16KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		6Nos. 40A DP MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
		1Nos. 40ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-40A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		1Nos. 63ATPN MCB with HRC fuse for short circuit protection, Dual source KWH meter, Class 1 accuracy, (Direct reading type without CT's) 0-80A, 3 Phase, 4 Wire with auto cut-off, With pre-paid facility / Post paid facility, n Selector Switch for current rating selection with room unit and complete with internal HR FRLS PVC Insulated unsheathed flexible copper conductor wiring of adequate size and input & output wiring terminal blocks as required.		-				
4.33	NSR	<b>COMMON SERVICE POWER PANEL-NURSING FEMALE-LHS(CSPP-NRF-01)</b>	JOB	1	-	-	2,85,740	285740
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		INCOMER:		-				
		630A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-				
		Surge Protection device-1no		-				
		Independent manual spring closing mechanism		-				
		Extended Rotary Handle Mechanism -1Nos		-				
		Spreader Links For 3P MCCB 630A -2 sets		-				
		Phase Barrier For MCCB 630A-1Nos		-				
		Aux Contact Block For MCCB 630A-1set		-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Buitlin Selector Switch CL-1-1Nos		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC		-				
		BUSBARS:		-				
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		1Nos 160A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		Knob -1Nos		-				
		Spreader Links For TPN MCCB 160A -2 sets		-				
		Phase Barrier For MCCB 160A-2Nos		-				
		Aux Contact Block For MCCB 160A-2set		-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-				
		TPN MCB 6 Amps-2Nos		-				
		Shunt trip coil-220V AC-2Nos		-				
		3Nos 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		Knob -3Nos		-				
		Spreader Links For TPN MCCB 100A -6 sets		-				
		Phase Barrier For MCCB 100A-6Nos		-				
		Aux Contact Block For MCCB 100A-6set		-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-				
		TPN MCB 6 Amps-2Nos		-				
		Shunt trip coil-220V AC-2Nos		-				
		16Nos. 63A TPN MCB		-				
		17Nos. 40A TPN MCB		-				
4.34	NSR	<b>COMMON SERVICE POWER PANEL-NURSING FEMALE-RHS(CSPP-NRF-02)</b>	JOB	1	-	-	2,46,307	246307
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		INCOMER:		-				
		400A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-				
		Surge Protection device-1no		-				
		Independent manual spring closing mechanism		-				
		Extended Rotary Handle Mechanism -1Nos		-				
		Spreader Links For 3P MCCB 400A -2 sets		-				
		Phase Barrier For MCCB 400A-1Nos		-				
		Aux Contact Block For MCCB 400A-1set		-				



Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos	-	-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB	-	-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB	-	-				
		TPN MCB 6 Amps-1Nos	-	-				
		Shunt trip coil-220V AC	-	-				
		BUSBARS:	-	-				
		630Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports	-	-				
		OUTGOING:	-	-				
		16Nos. 63A TPN MCB	-	-				
		16Nos. 40A TPN MCB	-	-				
		2No 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2set	-	-				
		Independent manual spring closing mechanism-2set	-	-				
		Knob -2Nos	-	-				
		Spreader Links For TPN MCCB 100A -4 sets	-	-				
		Phase Barrier For MCCB 100A-2Nos	-	-				
		Aux Contact Block For MCCB 100A-2set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-4Nos	-	-				
		TPN MCB 6 Amps-4Nos	-	-				
		Shunt trip coil-220V AC-4Nos	-	-				
4.35	NSR	<b>GYSER PANEL-NURSING FEMALE -01 (GYSER PANEL-NRF-01)</b>	JOB	1			2,00,200	200200
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:	-	-				
		INCOMER:	-	-				
		630A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection	-	-				
		Surge Protection device-1no	-	-				
		Independent manual spring closing mechanism	-	-				
		Extended Rotary Handle Mechanism -1Nos	-	-				
		Spreader Links For 3P MCCB 630A -2 sets	-	-				
		Phase Barrier For MCCB 630A-1Nos	-	-				
		Aux Contact Block For MCCB 630A-1set	-	-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos	-	-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB	-	-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB	-	-				
		TPN MCB 6 Amps-1Nos	-	-				
		Shunt trip coil-220V AC	-	-				
		BUSBARS:	-	-				
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports	-	-				
		OUTGOING:	-	-				
		18Nos. 63A TPN MCB	-	-				
		1No 160A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set	-	-				
		Independent manual spring closing mechanism-1set	-	-				
		Knob -1No	-	-				
		Spreader Links For TPN MCCB 160A -2 sets	-	-				
		Phase Barrier For MCCB 160A-1No	-	-				
		Aux Contact Block For MCCB 160A-1set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos	-	-				
		TPN MCB 6 Amps-2Nos	-	-				
		Shunt trip coil-220V AC-2Nos	-	-				
		2No 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set	-	-				
		Independent manual spring closing mechanism-2set	-	-				
		Knob -2No	-	-				
		Spreader Links For TPN MCCB 100A -4 sets	-	-				
		Phase Barrier For MCCB 100A-2No	-	-				
		Aux Contact Block For MCCB 100A-2set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-4Nos	-	-				
		TPN MCB 6 Amps-4Nos	-	-				
		Shunt trip coil-220V AC-4Nos	-	-				
4.36	NSR	<b>GYSER PANEL-NURSING FEMALE-02 (GYSER PANEL-NRF-02)</b>	JOB	1			2,00,200	200200

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires. loop	-	-				
		INCOMER:	-	-				
		630A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection	-	-				
		Surge Protection device-1no	-	-				
		Independent manual spring closing mechanism	-	-				
		Extended Rotary Handle Mechanism -1Nos	-	-				
		Spreader Links For 3P MCCB 630A -2 sets	-	-				
		Phase Barrier For MCCB 630A-1Nos	-	-				
		Aux Contact Block For MCCB 630A-1set	-	-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Buitin Selector Switch CL-1-1Nos	-	-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB	-	-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB	-	-				
		TPN MCB 6 Amps-1Nos	-	-				
		Shunt trip coil-220V AC	-	-				
		BUSBARS:	-	-				
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports	-	-				
		OUTGOING:	-	-				
		18Nos. 63A TPN MCB	-	-				
		1No 160A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set	-	-				
		Independent manual spring closing mechanism-1set	-	-				
		Knob -1No	-	-				
		Spreader Links For TPN MCCB 160A -2 sets	-	-				
		Phase Barrier For MCCB 160A-1No	-	-				
		Aux Contact Block For MCCB 160A-1set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos	-	-				
		TPN MCB 6 Amps-2Nos	-	-				
		Shunt trip coil-220V AC-2Nos	-	-				
		2No 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set	-	-				
		Independent manual spring closing mechanism-2set	-	-				
		Knob -2No	-	-				
		Spreader Links For TPN MCCB 100A -4 sets	-	-				
		Phase Barrier For MCCB 100A-2No	-	-				
		Aux Contact Block For MCCB 100A-2set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-4Nos	-	-				
		TPN MCB 6 Amps-4Nos	-	-				
		Shunt trip coil-220V AC-4Nos	-	-				
4.37	NSR	<b>EMERGENCY POWER PANEL-NURSING FEMALE (EPP-NRF)</b>	JOB	2			1,15,267	230534
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:	-	-				
		200A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Micro processor release (EMI & EMC certified) for overcurrent & short circuit / Earth fault protection-2sets	-	-				
		Independent manual spring closing mechanism-2sets	-	-				
		Extended Rotary Handle Mechanism -2Nos	-	-				
		Spreader Links For 4P MCCB 200A -2 Nos	-	-				
		Phase Barrier For MCCB 200A-1No	-	-				
		Aux Contact Block For MCCB 200A-1set	-	-				
		Digital Ammeter with Buitin Selector Switch	-	-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB	-	-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB	-	-				
		TPN MCB 6 Amps-2Nos	-	-				
		Shunt trip coil-220V AC-2Nos	-	-				
		BUSBARS:	-	-				
		400 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports	-	-				
		OUTGOING:	-	-				
		2Nos 63A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-3sets		-				
		Knob -2Nos		-				
		Spreader Links For TPN MCCB 63A -3 sets		-				
		Phase Barrier For MCCB 63A-2Nos		-				
		Aux Contact Block For MCCB 63A-2set		-				
		LED Type Indicating lamps On with 2A back up MCB-3Nos		-				
		TPN MCB 6 Amps-3Nos		-				
		Shunt trip coil-220V AC-3Nos		-				
		6Nos. 40A TPN MCB		-				
		2Nos. 63A TPN MCB		-				
		1No. 25A DP MCB		-				
4.38	NSR	<b>MAIN LIGHTING PANEL-01-NURSING FEMALE (MLP-01-NRF)</b>	JOB	1			65,520	65520
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminium busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		INCOMER:		-				
		63A TPN MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection		-				
		Independent manual spring closing mechanism		-				
		Knob -1Nos		-				
		Spreader Links For 3P MCCB 63A -2 sets		-				
		Phase Barrier For MCCB 63A-1Nos		-				
		Aux Contact Block For MCCB 63A-1set		-				
		Digital Ammeter+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC		-				
		BUSBARS:		-				
		300Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		19Nos. 25A DP MCB		-				
		2Nos. 63A TPN MCB		-				
4.39	NSR	<b>MAIN LIGHTING PANEL-02-NURSING FEMALE(MLP-02-NRF)</b>	JOB	1			65,520	65520
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminium busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		INCOMER:		-				
		63A TPN MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection		-				
		Independent manual spring closing mechanism		-				
		Knob -1Nos		-				
		Spreader Links For 3P MCCB 63A -2 sets		-				
		Phase Barrier For MCCB 63A-1Nos		-				
		Aux Contact Block For MCCB 63A-1set		-				
		Digital Ammeter+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC		-				
		BUSBARS:		-				
		300Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		19Nos. 25A DP MCB		-				
		2Nos. 63A TPN MCB		-				
4.40	NSR	<b>COMMON SERVICE POWER PANEL- NURSING MALE (CSPP-NRM)</b>	JOB	1			2,42,667	242667

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:	-	-				
		INCOMER:	-	-				
		400A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection	-	-				
		Surge Protection device-1no	-	-				
		Independent manual spring closing mechanism	-	-				
		Extended Rotary Handle Mechanism -1Nos	-	-				
		Spreader Links For 3P MCCB 400A -2 sets	-	-				
		Phase Barrier For MCCB 400A-1Nos	-	-				
		Aux Contact Block For MCCB 400A-1set	-	-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos	-	-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB	-	-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB	-	-				
		TPN MCB 6 Amps-1Nos	-	-				
		Shunt trip coil-220V AC	-	-				
		BUSBARS:	-	-				
		630Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports	-	-				
		OUTGOING:	-	-				
		2Nos 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets	-	-				
		Independent manual spring closing mechanism-1sets	-	-				
		Knob -2Nos	-	-				
		Spreader Links For TPN MCCB 100A -4sets	-	-				
		Phase Barrier For MCCB 100A-2Nos	-	-				
		Aux Contact Block For MCCB 100A-2set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos	-	-				
		TPN MCB 6 Amps-2Nos	-	-				
		Shunt trip coil-220V AC-2Nos	-	-				
		1No 63A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets	-	-				
		Independent manual spring closing mechanism-2sets	-	-				
		Knob -2Nos	-	-				
		Spreader Links For TPN MCCB 63A -2sets	-	-				
		Phase Barrier For MCCB 63A-1No	-	-				
		Aux Contact Block For MCCB 63A-1set	-	-				
		LED Type Indicating lamps On with 2A back up MCB-1Nos	-	-				
		TPN MCB 6 Amps-1Nos	-	-				
		Shunt trip coil-220V AC-1Nos	-	-				
		14Nos. 63A TPN MCB	-	-				
		15Nos. 40A TPN MCB	-	-				
4.41	NSR	<b>GYSER PANEL-PG NURSING MALE (GYSER PANEL-NRM)</b>	JOB	1			2,01,413	201413
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:	-	-				
		INCOMER:	-	-				
		630A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories	-	-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection	-	-				
		Surge Protection device-1no	-	-				
		Independent manual spring closing mechanism	-	-				
		Extended Rotary Handle Mechanism -1Nos	-	-				
		Spreader Links For 3P MCCB 630A -2 sets	-	-				
		Phase Barrier For MCCB 630A-1Nos	-	-				
		Aux Contact Block For MCCB 630A-1set	-	-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos	-	-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB	-	-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB	-	-				
		TPN MCB 6 Amps-1Nos	-	-				
		Shunt trip coil-220V AC	-	-				
		BUSBARS:	-	-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		16Nos. 63A TPN MCB		-				
		1No 160A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set		-				
		Independent manual spring closing mechanism-1set		-				
		Knob -1No		-				
		Spreader Links For TPN MCCB 160A -2 sets		-				
		Phase Barrier For MCCB 160A-1No		-				
		Aux Contact Block For MCCB 160A-1set		-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-				
		TPN MCB 6 Amps-2Nos		-				
		Shunt trip coil-220V AC-2Nos		-				
		2No 100A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-1set		-				
		Independent manual spring closing mechanism-2set		-				
		Knob -2No		-				
		Spreader Links For TPN MCCB 100A -4 sets		-				
		Phase Barrier For MCCB 100A-2No		-				
		Aux Contact Block For MCCB 100A-2set		-				
		LED Type Indicating lamps On with 2A back up MCB-4Nos		-				
		TPN MCB 6 Amps-4Nos		-				
		Shunt trip coil-220V AC-4Nos		-				
4.42	NSR	<b>EMERGENCY POWER PANEL-NURSING MALE (EPP-NRM)</b>	JOB	1			1,01,920	101920
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid conections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:		-				
		1No 160A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release (EMI & EMC certified) for overcurrent & short circuit protection-2sets		-				
		Independent manual spring closing mechanism-1sets		-				
		Knob -1Nos		-				
		Spreader Links For 4P MCCB 100A -2 sets		-				
		Phase Barrier For MCCB 100A-1Nos		-				
		Aux Contact Block For MCCB 100A-1set		-				
		Digital Ammeter with Builtin Selector Switch		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC-1Nos		-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		5Nos. 40A TPN MCB		-				
		1No. 32A TPN MCB		-				
		16Nos. 25A DP MCB		-				
		2No. 63A TPN MCB		-				
4.43	NSR	<b>NORMAL LIGHTING PANEL GUEST HOUSE-ZONE 1</b>	JOB	1			34,580	34580
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid conections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:		-				
		INCOMER:1		-				
		2# 630A 4P Motorised MCCB of short circuit capacity of 11KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-2 sets		-				
		Surge Protection device-1no		-				
		Independent manual spring closing mechanism -2 sets		-				
		Extended Rotary Handle Mechanism -2 Nos		-				
		Spreader Links For 4P MCCB 630A -4 sets		-				
		Phase Barrier For MCCB 630A -2 Nos		-				
		Aux Contact Block For MCCB 630A -2 set		-				
		Digital Type Load manager 96sqmm With Builtin Selector Switch CL-1- 2 Nos		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE		
					Total for all blocks	Rate	Amount	Rate	Total Amount
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-					
		TPN MCB 6 Amps-2Nos		-					
		Shunt trip coil-220V AC		-					
		BUSBARS:		-					
		800Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 11KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-					
		INTERLOCKING AND AUTO CHANGE OVER		-					
		Electrical through advance contacts in MCCB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidentally approaching two supplies at one bus section		-					
		OUTGOING:		-					
		6Nos. 80A TPN MCCB, with on/off indication lamp with back-up fuse		-					
		1Nos. 250A TPN MCCB, with on/off indication lamp with back-up fuse		-					
		2Nos. 40A TPN MCB		-					
		3Nos. 25A DP MCB		-					
		Extended Rotary Handle Mechanism -7 Nos		-					
				-					
				-					
4.44	NSR	<b>NORMAL LIGHTING PANEL GUEST HOUSE-ZONE 2</b>	JOB	1			1,82,000	182000	
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-					
		INCOMER:1		-					
		2# 250A 4P MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-					
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-2 sets		-					
		Surge Protection device-1no		-					
		Independent manual spring closing mechanism -2 sets		-					
		Extended Rotary Handle Mechanism -2 Nos		-					
		Spreader Links For 4P MCCB 250A -4 sets		-					
		Phase Barrier For MCCB 250A -2 Nos		-					
		Aux Contact Block For MCCB 250A -2 set		-					
		Digital Type Load manager 96sqmm With Builtin Selector Switch CL-1- 2 Nos		-					
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-					
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-					
		TPN MCB 6 Amps-1Nos		-					
		Shunt trip coil-220V AC		-					
		BUSBARS:		-					
		600Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-					
		INTERLOCKING AND AUTO CHANGE OVER		-					
		Electrical through advance contacts in MCCB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidentally approaching two supplies at one bus section		-					
		OUTGOING:		-					
		2Nos. 80A TPN MCCB, with on/off indication lamp with back-up fuse		-					
		2Nos. 63A TPN MCCB, with on/off indication lamp with back-up fuse		-					
		3Nos. 40A TPN MCB		-					
		3Nos. 25A DP MCB		-					
		Extended Rotary Handle Mechanism -4 Nos		-					
				-					
4.45	NSR	<b>KITCHEN POWER PANEL (GUEST HOUSE)</b>	JOB	1			80,080	80080	
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-					
		INCOMER:1		-					
		80A 4P MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-					
		Thermal Magnetic release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-1 sets		-					
		Independent manual spring closing mechanism -1 sets		-					
		knob -1 Nos		-					
		Spreader Links For 4P MCCB 80A -2 sets		-					
		Phase Barrier For MCCB 80A -1 Nos		-					
		Aux Contact Block For MCCB 80A -1 set		-					
		Digital Type Energy manager 96sqmm With Builtin Selector Switch CL-1- 1 Nos		-					
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-					
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-					
		TPN MCB 6 Amps-1Nos		-					

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Shunt trip coil-220V AC		-				
		BUSBARS:		-				
		300Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		3Nos. 40A TPN MCB		-				
		9Nos. 32A TPN MCB		-				
		1Nos. 20A DP MCB		-				
4.46	NSR	<b>EMERGENCY POWER PANEL (GUEST HOUSE)</b>	JOB	1			96,460	96460
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		INCOMER:1		-				
		250A 4P MCCB of short circuit capacity of 11KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-1 sets		-				
		Independent manual spring closing mechanism -1 sets		-				
		Extended Rotary Handle Mechanism -1 Nos		-				
		Spreader Links For 4P MCCB 250A -2 sets		-				
		Phase Barrier For MCCB 250A -1 Nos		-				
		Aux Contact Block For MCCB 250A -1 set		-				
		Digital Type Load manager 96sqmm With Builtin Selector Switch CL-1- 1 Nos		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC		-				
		BUSBARS:		-				
		400Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 11KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		3Nos. 50A TPN MCB		-				
		9Nos. 32A TPN MCB		-				
		9Nos. 16A DP MCB		-				
4.47	NSR	<b>FLOOR METERING PANEL-1st Floor-Zone 1 (GUEST HOUSE)</b>	JOB	1			63,093	63093
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		INCOMER:1		-				
		80A 4P MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal Magnetic release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-1 sets		-				
		Independent manual spring closing mechanism -1 sets		-				
		knob -1 Nos		-				
		Spreader Links For 4P MCCB 80A -2 sets		-				
		Phase Barrier For MCCB 80A -1 Nos		-				
		Aux Contact Block For MCCB 80A -1 set		-				
		Digital Type Energy meter 96sqmm With Builtin Selector Switch CL-1- 1 Nos		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC		-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		12Nos. 25A DP MCB		-				
		1Nos. 20A DP MCB		-				
4.48	NSR	<b>FLOOR METERING PANEL-1st Floor-Zone 2 (GUEST HOUSE)</b>	JOB	1			66,733	66733

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:		-				
		INCOMER:1		-				
		63A 4P MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal Magnetic release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-1 sets		-				
		Independent manual spring closing mechanism -1 sets		-				
		knob -1 Nos		-				
		Spreader Links For 4P MCCB 63A -2 sets		-				
		Phase Barrier For MCCB 63A -1 Nos		-				
		Aux Contact Block For MCCB 63A -1 set		-				
		Digital Type Energy meter 96sqmm With Builtin Selector Switch CL-1- 1 Nos		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC		-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		15Nos.25A DP MCB		-				
		1Nos.20A DP MCB		-				
4.54	NSR	<b>DG POWER PANEL SUBSTATION-2 (DG POWER PANEL-SS-2)</b>	JOB	1			2,70,573	270573
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear: (This Shall		-				
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with :		-				
		i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature.		-				
		ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel)		-				
		iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories.		-				
		INCOMERS:		-				
		1No of 630A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1sets		-				
		Independent manual spring closing mechanism-1no		-				
		Extended Rotary Handle Mechanism -1No		-				
		Spreader Links For 3P MCCB 630A -1 set		-				
		Phase Barrier For MCCB 630A-1Nos		-				
		Aux Contact Block For MCCB 630A-1set		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC-1Nos		-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CTs , CL-1Nos		-				
		BUSBARS:		-				
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 36KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		9 Nos 125A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release for overcurrent & short circuit protection-2set		-				
		Independent manual spring closing mechanism-2set		-				
		Extended Rotary Handle Mechanism -2Nos		-				
		Knob		-				
		Spreader Links For TPN MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		LED Type Indicating lamps On with 2A back up MCB-3Nos		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC		-				



Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		3 No 63A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories Thermal magnetic release for overcurrent & short circuit protection-2set Independent manual spring closing mechanism-2set Knob Spreader Links For TPN MCCB Phase Barrier For MCCB Aux Contact Block For MCCB LED Type Indicating lamps On with 2A back up MCB-3Nos TPN MCB 6 Amps Shunt trip coil-220V AC		-				
4.55	NSR	<b>DG POWER PANEL SUBSTATION-3 (DG POWER PANEL-SS-3)</b>	JOB	1			2,60,867	260867
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear: (This Shall		-				
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories. <del>with necessary cables, control cables</del>		-				
		<b>INCOMERS:</b> 1No of 630A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories Microprocessor release for overcurrent, Earth fault & short circuit protection-1sets Independent manual spring closing mechanism-1no Extended Rotary Handle Mechanism -1No Spreader Links For 3P MCCB 630A -1 set Phase Barrier For MCCB 630A-1Nos Aux Contact Block For MCCB 630A-1set LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB TPN MCB 6 Amps-1Nos Shunt trip coil-220V AC-1Nos Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CTs , CL-1Nos		-				
		<b>BUSBARS:</b> 800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 36KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-				
		<b>OUTGOING:</b> 2Nos 160A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories Thermal magnetic release for overcurrent & short circuit protection-4set Independent manual spring closing mechanism-4set Knob Spreader Links For TPN MCCB Phase Barrier For MCCB Aux Contact Block For MCCB LED Type Indicating lamps On with 2A back up MCB-3Nos TPN MCB 6 Amps Shunt trip coil-220V AC		-				
		3No 63A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories Thermal magnetic release for overcurrent & short circuit protection-3set Independent manual spring closing mechanism-3set Knob Spreader Links For TPN MCCB Phase Barrier For MCCB Aux Contact Block For MCCB LED Type Indicating lamps On with 2A back up MCB-3Nos TPN MCB 6 Amps Shunt trip coil-220V AC		-				
		4No 200A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories Thermal magnetic release for overcurrent & short circuit protection-4set Independent manual spring closing mechanism-4set Knob Spreader Links For TPN MCCB Phase Barrier For MCCB Aux Contact Block For MCCB LED Type Indicating lamps On with 2A back up MCB-3Nos TPN MCB 6 Amps Shunt trip coil-220V AC		-				
4.56	NSR	<b>DG POWER PANEL SUBSTATION-4 (DG POWER PANEL-SS-4)</b>	JOB	1			3,76,133	376133

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear: (This Shall be TTA Panel)						
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories.						
		INCOMERS:						
		1 Nos of 630 A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1sets						
		Independent manual spring closing mechanism-1sets						
		Extended Rotary Handle Mechanism -1Nos						
		Spreader Links For 3P MCCB 630A						
		Phase Barrier For MCCB 630A						
		Aux Contact Block For MCCB 630A						
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB						
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB						
		TPN MCB 6 Amps-1Nos						
		Shunt trip coil-220V AC-1Nos						
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CTs , CL-1Nos						
		BUSBARS:						
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 36KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		2Nos 160A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal magnetic release for overcurrent & short circuit protection-8set						
		Independent manual spring closing mechanism-8set						
		Knob & Extended Rotary Handle Mechanism -2Nos						
		Spreader Links For TPN MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		LED Type Indicating lamps On with 2A back up MCB-3Nos						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC						
		2No 63A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal magnetic release for overcurrent & short circuit protection-3set						
		Independent manual spring closing mechanism-3set						
		Extended Rotary Handle Mechanism -2Nos						
		Knob						
		Spreader Links For TPN MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		LED Type Indicating lamps On with 2A back up MCB-3Nos						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC						
		3No 200A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal magnetic release for overcurrent & short circuit protection-3set						
		Independent manual spring closing mechanism-3set						
		Extended Rotary Handle Mechanism -2Nos						
		Knob						
		Spreader Links For TPN MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		LED Type Indicating lamps On with 2A back up MCB-3Nos						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC						
		3No 200A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal magnetic release for overcurrent & short circuit protection-3set						
		Independent manual spring closing mechanism-3set						
		Extended Rotary Handle Mechanism -2Nos						
		Knob						
		Spreader Links For TPN MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		LED Type Indicating lamps On with 2A back up MCB-3Nos						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC						
4.57	NSR	<b>DG POWER PANEL SUBSTATION-5 (DG POWER PANEL-SS-5)</b>	JOB	1			2,62,500	262500

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear: (This Shall be TTA Panel)						
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories.						
		INCOMERS:						
		1 Nos of 400A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1sets						
		Independent manual spring closing mechanism-1sets						
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB						
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB						
		TPN MCB 6 Amps-1Nos						
		Shunt trip coil-220V AC-1Nos						
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CTs , CL-1Nos						
		BUSBARS:						
		500 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 36KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		8Nos 125A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal magnetic release for overcurrent & short circuit protection-2set						
		Independent manual spring closing mechanism-2set						
		Extended Rotary Handle Mechanism -2Nos						
		Knob						
		Spreader Links For TPN MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		LED Type Indicating lamps On with 2A back up MCB-3Nos						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC						
4.58	NSR	<b>kitchen Power Panel (KTPN- AMENITY )</b>	JOB	3			75,800	227400
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:						
		INCOMER:1						
		160A 4P MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal Magnetic release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-1 sets						
		Independent manual spring closing mechanism -1 sets						
		knob -1 Nos						
		Spreader Links For 4P MCCB 160A -2 sets						
		Phase Barrier For MCCB 160A -1 Nos						
		Aux Contact Block For MCCB 160A -1 set						
		Digital Type Energy meter 96sqmm With Builtin Selector Switch CL-1- 1 Nos						
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB						
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB						
		TPN MCB 6 Amps-1Nos						
		Shunt trip coil-220V AC						
		BUSBARS:						
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		12Nos.40A TPN MCB						
		4Nos.63A DP MCB						
4.59	NSR	<b>225 KVAR CAPACITOR PANEL SUBSTATION -4 (CPP-1-SS4 &amp; CPP-2-SS4)</b>	JOB	2			5,40,000	1080000

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:		-				
		INCOMERS:		-				
		1 Nos of 400A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1set		-				
		Independent manual spring closing mechanism-1set		-				
		Extended Rotary Handle Mechanism -1Nos		-				
		Spreader Links For 3P MCCB 400A -2 sets		-				
		Phase Barrier For MCCB 400A-1Nos		-				
		Aux Contact Block For MCCB 400A-1set		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC-1Nos		-				
		Digital Ammeter 96sqmm With Builtin Selector Switch for current rating selection , CTs CL-1-1Nos		-				
		Digital Voltmeter 96sqmm With Builtin Selector Switch for current rating selection , CTs CL-1-1Nos		-				
		Intelligent microprocessor based APFC realy with current sensing of less than 1% with selector switch 8 steps		-				
		BUSBARS:		-				
		630Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 36KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		1 Nos 100KVAR capacitor Bank ,525V, MPP type with 14% Detuned reactor, heavy duty, Thyristorised switching module with suitable fuse Backup.		-				
		LED Type Indicating lamps On with 2A back up MCB-1Nos		-				
		TPN MCB 6 Amps-1Nos		-				
		1 No. 50KVAR capacitor Bank ,525V, MPP type with 14% Detuned reactor, heavy duty, Thyristorised switching module with suitable fuse Backup.		-				
		LED Type Indicating lamps On with 2A back up MCB-1Nos		-				
		TPN MCB 6 Amps-1Nos		-				
		3 Nos.25KVAR capacitor Bank ,525V, MPP type with 14% Detuned reactor, heavy duty, Thyristorised switching module with suitable fuse Backup.		-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-				
		TPN MCB 6 Amps-2Nos		-				
		1Nos Thyristorised switching module with suitable fuse Backup for 100KVAR as a spare feeder.		-				
		LED Type Indicating lamps On with 2A back up MCB-1Nos		-				
		TPN MCB 6 Amps-1Nos		-				
		1Nos Thyristorised switching module with suitable fuse Backup for 25KVAR as a spare feeder.		-				
		LED Type Indicating lamps On with 2A back up MCB-1Nos		-				
		TPN MCB 6 Amps-1Nos		-				
4.6	NSR	<b>Amenity panel nursing, PG hostel (NLPP-AMENITIES HOSTEL)</b>	JOB	3			1,43,000	429000
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:		-				
		INCOMER:1		-				
		250A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1set		-				
		Independent manual spring closing mechanism -1 sets		-				
		knob -1 Nos		-				
		Spreader Links For 4P MCCB 250A -2 sets		-				
		Phase Barrier For MCCB 250A -1 Nos		-				
		Aux Contact Block For MCCB 250A -1 set		-				
		Digital Type Energy meter 96sqmm With Builtin Selector Switch CL-1- 1 Nos		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC		-				
		BUSBARS:		-				
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		3Nos.40A TPN MCB		-				
		2Nos.63A TPN MCB		-				
		4Nos.25A DP MCB		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		2Nos 160A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release for overcurrent & short circuit protection-2set		-				
		Independent manual spring closing mechanism-2set		-				
		Extended Rotary Handle Mechanism -2Nos		-				
		Spreader Links For TPN MCCB 160A -4 sets		-				
		Phase Barrier For MCCB 160A-2No		-				
		Aux Contact Block For MCCB 160A-2set		-				
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-				
		TPN MCB 6 Amps-2Nos		-				
		Shunt trip coil-220V AC-2Nos		-				
4.61	NSR	<b>MAIN LT PANEL-1 (MLTP-01)</b>	JOB	1			21,20,908	2120908
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear: (This Shall		-				
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories.		-				
		<b>INCOMERS:</b>		-				
		2 Nos 1000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Microprocessor release for overcurrent & short circuit protection, Restricted earth fault relay with 4 Nos. PS class cast resin CT's of suitable burden & ratio (1 No. at transformer & 3 Nos. at incomer) -2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB, TPN MCB 6 Amps-2Nos		-				
		Micro PLC for braher control with Ethernet Output 1 set, 01 OFC to 1 Ethernet Converter-1 Set, Power Supply for Micro PLC - 1 No, necessary cabling, accessories, terminations, communication cabling etc.		-				
		Shunt trip coil-220V AC-2Nos		-				
		Transient voltage surge suppressor (TVSS)-1No.		-				
		Power meter with RS 485 & RS232 port-2 96sqmm With Bultin Selector Switch CTs , CL-2Nos		-				
		Lockable trip push button		-				
		Dual Ratio CT 1000A/500A/5A/5A for APFC current setting with Selecter switch		-				
		<b>BUS COUPLER</b>		-				
		1 Nos 1000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Independent manual spring closing mechanism-1No		-				
		LED Type Indicating lamps ON with 2A back up MCB for test terminal block,fuses circuit contactor for positive electrical interlocking of breaker etc as required-1set		-				
		<b>INTERLOCKING AND AUTO CHANGE OVER</b>		-				
		Electrical through advance contacts in ACB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidentally approaching two supplies at one bus section		-				
		<b>BUSBARS:</b>		-				
		1000 Amps TPN busbars of Aluminium with ambient temperture 40degree and temperature rise of 45 degree celsius 50kA for 1sec.		-				
		<b>OUTGOING with 2nos Potential free contacts for ON/OFF command:</b>		-				
		8 Nos of 630A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
		1 Nos of 800A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
		3 Nos of 400A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
4.62	NSR	<b>MAIN LT PANEL-2 (MLTP-02)</b>	JOB	1			24,78,841	2478841
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid conections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear: (This Shall be TYPED)		-				
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories.		-				
		<b>INCOMERS:</b> 2 Nos 2000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Microprocessor release for overcurrent & short circuit protection, Restricted earth fault relay with 4 Nos. PS class cast resin CT's of suitable burden & ratio (1 No. at transformer & 3 Nos. at incomer) -2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB, TPN MCB 6 Amps-2Nos		-				
		Micro PLC for braher control with Ethernet Output 1 set, 01 OFC to 1 Ethernet Converter-1 Set, Power Supply for Micro PLC - 1 No, necessary cabling, accessories, terminations, communication cabling etc.		-				
		Shunt trip coil-220V AC-2Nos		-				
		Transient voltage surge suppressor (TVSS)-1No.		-				
		Power meter with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs , CL-2Nos		-				
		Lockable trip push button		-				
		Dual Ratio CT 2000A/1000A/5A/5A for APFC current setting with Selector switch		-				
		<b>BUS COUPLER</b>		-				
		1 Nos 2000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Independent manual spring closing mechanism-1No		-				
		LED Type Indicating lamps ON with 2A back up MCB for test terminal block,fuses circuit contactor for positive electrical interlocking of breaker etc as required-1set & 1 Set of Digital Ammeter with ASS and CTs		-				
		<b>INTERLOCKING AND AUTO CHANGE OVER</b>		-				
		Electrical through advance contacts in ACB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidently approaching two supplies at one bus section		-				
		<b>BUSBARS:</b>		-				
		2000 Amps TPN busbars of Aluminium with ambient temperture 40degree and temperture rise of 45 degree celsius 50kA for 1sec.		-				
		OUTGOING with 2nos Potential free contacts for ON/OFF command:		-				
		2 Nos 1000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Microprocessor release for overcurrent & short circuit protection, Restricted earth fault relay with 4 Nos. PS class cast resin CT's of suitable burden & ratio (1 No. at transformer & 3 Nos. at incomer) -2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB, TPN MCB 6 Amps-2Nos		-				
		Micro PLC for braher control with Ethernet Output 1 set, 01 OFC to 1 Ethernet Converter-1 Set, Power Supply for Micro PLC - 1 No, necessary cabling, accessories, terminations, communication cabling etc.		-				
		Shunt trip coil-220V AC-2Nos		-				
		Transient voltage surge suppressor (TVSS)-1No.		-				
		Power meter with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs , CL-2Nos		-				
		Lockable trip push button		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		6 Nos of 630A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
		4Nos 400A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
		4Nos 250A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
		1Nos 125A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
4.63	NSR	<b>MAIN LT PANEL-3 (MLTP-03)</b>	JOB	1			25,60,134	2560134
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear: (This Shall be as per SLD)		-				
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories.		-				
		<b>INCOMERS:</b>		-				
		2 Nos 1000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Microprocessor release for overcurrent & short circuit protection, Restricted earth fault relay with 4 Nos. PS class cast resin CT's of suitable burden & ratio (1 No. at transformer & 3 Nos. at incomer) -2sets		-				
		Independent manual spring closing mechanism-2sets		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB, TPN MCB 6 Amps-2Nos		-				
		Micro PLC for braher control with Ethernet Output 1 set, 01 OFC to 1 Ethernet Converter-1 Set, Power Supply for Micro PLC - 1 No, necessary cabling, accessories, terminations, communication cabling etc.		-				
		Shunt trip coil-220V AC-2Nos		-				
		Transient voltage surge suppressor (TVSS)-1No.		-				
		Power meter with RS 485 & RS232 port-2 96sqmm With Built-in Selector Switch CTs , CL-2Nos		-				
		Lockable trip push button		-				
		Dual Ratio CT 1000A/500A/5A/5A for APFC current setting with Selector switch		-				
		<b>BUS COUPLER</b>		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		1 Nos 1000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Independent manual spring closing mechanism-1No		-				
		LED Type Indicating lamps ON with 2A back up MCB for test terminal block,fuses circuit contactor for positive electrical interlocking of breaker etc as required-1set		-				
		INTERLOCKING AND AUTO CHANGE OVER		-				
		Electrical through advance contacts in ACB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidently approaching two supplies at one bus section		-				
		BUSBARS:		-				
		1000 Amps TPN busbars of Aluminium with ambient temperture 40degree and temperture rise of 45 degree celsius 50kA for 1sec.		-				
		OUTGOING with 2nos Potential free contacts for ON/OFF command:		-				
		8Nos of 630A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
		7Nos of 400A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB		-				
		TPN MCB 6 Amps		-				
		Shunt trip coil-220V AC-		-				
4.64	NSR	<b>MAIN LT PANEL-4 (MLTP-04)</b>	JOB	1			43,00,000	4300000
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear: (This Shall be as per SLD)		-				
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories. iv) All necessary sensors & control wiring.		-				
		INCOMERS:		-				
		2 Nos 2000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Microprocessor release for overcurrent & short circuit protection, Restricted earth fault relay with 4 Nos. PS class cast resin CT's of suitable burden & ratio (1 No. at transformer & 3 Nos. at incomer) -2sets		-				
		Independent manual spring closing mechanism-2No		-				
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB, TPN MCB 6 Amps-2Nos		-				
		Micro PLC for braher control with Ethernet Output 1 set, 01 OFC to 1 Ethernet Converter-1 Set, Power Supply for Micro PLC - 1 No, necessary cabling, accessories, terminations, communication cabling etc.		-				
		Shunt trip coil-220V AC-2Nos		-				
		Transient voltage surge suppressor (TVSS)-2No.		-				
		Power meter with RS 485 & RS232 port-2 96sqmm With Buitin Selector Switch CTs , CL-2Nos		-				
		Lockable trip push button		-				
		Dual Ratio CT 2000A/1000A/5A/5A for APFC current setting with Selector switch		-				
		BUS COUPLER		-				
		1 Nos 2000A 4P EDO ACB of short circuit capacity of 36KA (ICS=ICU up to 415V),Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-				
		Independent manual spring closing mechanism-1No		-				
		LED Type Indicating lamps ON with 2A back up MCB for test terminal block,fuses circuit contactor for positive electrical interlocking of breaker etc as required-1set		-				
		INTERLOCKING AND AUTO CHANGE OVER		-				



Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Electrical through advance contacts in ACB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidentally approaching two supplies at one bus section						
		BUSBARS:						
		2000 Amp Amps TPN busbars of Aluminium with ambient temperture 40degree and temperture rise of 45 degree celsius 50kA for 1sec.						
		OUTGOING with 2nos Potential free contacts for ON/OFF command:						
		2 Nos 800A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Microprocessor release for overcurrent, Earth fault & short circuit protection-						
		Independent manual spring closing mechanism-						
		Extended Rotary Handle Mechanism						
		Spreader Links For 3P MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC-						
		13Nos 630A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Microprocessor release for overcurrent, Earth fault & short circuit protection-						
		Independent manual spring closing mechanism-						
		Extended Rotary Handle Mechanism						
		Spreader Links For 3P MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC-						
		4Nos 400A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Microprocessor release for overcurrent, Earth fault & short circuit protection-						
		Independent manual spring closing mechanism-						
		Extended Rotary Handle Mechanism						
		Spreader Links For 3P MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC-						
		3Nos 250A 4P motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Microprocessor release for overcurrent, Earth fault & short circuit protection-						
		Independent manual spring closing mechanism-						
		Extended Rotary Handle Mechanism						
		Spreader Links For 3P MCCB						
		Phase Barrier For MCCB						
		Aux Contact Block For MCCB						
		Digital Ammeter with ASS and CTs.and LED Type Indicating lamps On with 2A back up MCB						
		TPN MCB 6 Amps						
		Shunt trip coil-220V AC-						
4.65		<b>NORMAL LIGHTING &amp; POWERPANEL(NLPP)-RESIDENTIALBLOCK(TYPE-2-BLOCK-1)</b>	JOB	1			4,50,000	450000
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid conections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following switchgear:						
		Incomer						
		800 A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1sets						
		Independent manual spring closing mechanism-1sets						
		Extended Rotary Handle Mechanism -1Nos						
		Spreader Links For 3P MCCB 630A -1 sets						
		Phase Barrier For MCCB 630A-1Nos						
		Aux Contact Block For MCCB 630A-1set						
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB						
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB						
		TPN MCB 6 Amps-1Nos						
		Shunt trip coil-220V AC-1Nos						
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CTs , CL-1Nos						
		BUSBARS:						
		1000 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 36KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		4Nos 160A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Thermal magnetic release for overcurrent & short circuit protection-8set		-				
		Independent manual spring closing mechanism-1sets		-				
		Extended Rotary Handle Mechanism -1Nos		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC-1Nos		-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CTs , CL-1Nos		-				
		18No 100A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC-1Nos		-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CTs , CL-1Nos		-				
4.66		<b>NORMAL LIGHTING &amp; POWER PANEL (NLPP)-RESIDENTIAL BLOCK (TYPE-2-BLOCK-2)</b>	Job	1			1,88,000	188000
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		Incomer		-				
		400 A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1sets		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC-1Nos		-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CTs , CL-1Nos		-				
		BUSBARS:		-				
		630 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 36KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		3Nos 160A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release for overcurrent & short circuit protection-8set		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		6No 100A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release for overcurrent & short circuit protection-3set		-				
		Independent manual spring closing mechanism-		-				
		Extended Rotary Handle Mechanism		-				
		Spreader Links For 3P MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
4.66		<b>DG POWER PANEL-SUBSTATION-2 (OUT DOOR TYPE-IP-55)</b>	Job	1			2,87,800	287800
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following switchgear:		-				
		Incomer		-				

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		630 A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1sets		-				
		Independent manual spring closing mechanism-1sets		-				
		Extended Rotary Handle Mechanism -1Nos		-				
		Spreader Links For 3P MCCB 630A -1 sets		-				
		Phase Barrier For MCCB 630A-1Nos		-				
		Aux Contact Block For MCCB 630A-1set		-				
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-				
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-				
		TPN MCB 6 Amps-1Nos		-				
		Shunt trip coil-220V AC-1Nos		-				
		Digital Type Load manager+RS 485 PORT 96sqmm With Bultin Selector Switch CTs , CL-1Nos		-				
		BUSBARS:		-				
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 36KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-				
		OUTGOING:		-				
		12Nos 125A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-				
		Thermal magnetic release for overcurrent & short circuit protection-8set		-				
		Independent manual spring closing mechanism		-				
		Knob		-				
		Spreader Links For TPN MCCB		-				
		Phase Barrier For MCCB		-				
		Aux Contact Block For MCCB		-				
		LED Type Indicating lamps On with 2A back up MCB-8Nos		-				
		TPN MCB 6 Amps-		-				
		Shunt trip coil-220V AC		-				
		<b>Total Carried to Summary</b>		-				
		<b>OPD PANELS</b>		-				
4.1	NSR	600 KVAR CAPACITOR PANEL S(CPP-1, CPP-2 & CCP-3)	JOB	3		-	1440000	4320000
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid conections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.compe;		-		-		
		- Output for connecting an external amp		-		-		
		NOTE : Interconnection of all control Cable and Accessories etc complete in the scope of supply, including Foundation as per manufacture recommendations & complete in ready to use condition		-		-		
		INCOMERS:		-		-		
		1 Nos of 1250A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1set		-		-		
		Independent manual spring closing mechanism-1set		-		-		
		Extended Rotary Handle Mechanism -1Nos		-		-		
		Spreader Links For 3P MCCB 1250A -2 sets		-		-		
		Phase Barrier For MCCB 1250A-1Nos		-		-		
		Aux Contact Block For MCCB 1250A-1set		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC-1Nos		-		-		
		Digital Ammeter 96sqmm With Bultin Selector Switch for current rating selection , CTs CL-1-1Nos		-		-		
		Digital Voltmeter 96sqmm With Bultin Selector Switch for current rating selection , CTs CL-1-1Nos		-		-		
		Intelligent microprocessor based APFC realy with current sensing of less than 1% & CT of double ration with selector switch 8 steps		-		-		
		Day & Night mode selector Switch.		-		-		
		BUSBARS:		-		-		
		1250 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 50KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		3 Nos 100KVAR capacitor Bank , 525V, MPP type with 14% Detuned reactor, heavy duty, Thyristorised switching module with suitable fuse Backup.		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-2Nos		-		-		
		4 No. 50KVAR capacitor Bank ,525V, MPP type with 14% Detuned reactor, heavy duty, Thyristorised switching module with suitable fuse Backup.		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		4 Nos.25KVAR capacitor Bank ,525V, MPP type with 14% Detuned reactor, heavy duty, Thyristorised switching module with suitable fuse Backup.		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-2Nos		-		-		
		1Nos Thyristorised switching module with suitable fuse Backup for 100KVAR as a spare feeder.		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		1Nos Thyristorised switching module with suitable fuse Backup for 50KVAR as a spare feeder.		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
4.2	NSR	AHU Power Panel-1st Floor	JOB	1		-	92500	92500

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following			-	-		
		INCOMERS:			-	-		
		1Nos 125A TPN MCCB of short circuit capacity of 11kA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories			-	-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-1sets			-	-		
		Independent manual spring closing mechanism-1sets, Knob -1Nos			-	-		
		Knob-1no			-	-		
		Spreader Links For TPN MCCB 125A -2 sets			-	-		
		Phase Barrier For MCCB 125A-1Nos			-	-		
		Aux Contact Block For MCCB 125A-1set			-	-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos			-	-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB.			-	-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB.			-	-		
		TPN MCB 6 Amps-1Nos			-	-		
		Shunt trip coil-220V AC-1Nos			-	-		
		BUSBARS:			-	-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 11KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports.			-	-		
		OUTGOING:			-	-		
		5Nos. 40A TPN MCB			-	-		
		4Nos. 16A TPN MCB			-	-		
		9Nos. 25A TPN MCB			-	-		
					-	-		
					-	-		
4.3	NSR	<b>Elevator Power Panel</b>	JOB	1	-	-	248400	248400
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required			-	-		
		INCOMER:			-	-		
		250A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories			-	-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection			-	-		
		Independent manual spring closing mechanism			-	-		
		Extended Rotary Handle Mechanism -1Nos			-	-		
		Spreader Links For 3P MCCB 250A -2 sets			-	-		
		Phase Barrier For MCCB 250A-1Nos			-	-		
		Aux Contact Block For MCCB 250A-1set			-	-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos			-	-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB			-	-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB.			-	-		
		TPN MCB 6 Amps-1Nos			-	-		
		Shunt trip coil-220V AC			-	-		
		BUSBARS:			-	-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports			-	-		
		OUTGOING:			-	-		
		10Nos. 40A TPN MCCB with ON OFF TRIP Indication			-	-		
		4Nos. 63A TPN MCCB with ON OFF TRIP Indication			-	-		
					-	-		
					-	-		
4.4	NSR	<b>UPS I/P Panel</b>	JOB	1	-	-	442100	442100
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required			-	-		
		1no 800A 4P MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories			-	-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-2sets			-	-		
		Independent manual spring closing mechanism-2sets			-	-		
		Extended Rotary Handle Mechanism -2Nos			-	-		
		Spreader Links For TPN MCCB 800A -4 sets			-	-		

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Phase Barrier For MCCB 800A-2Nos		-		-		
		Aux Contact Block For MCCB 800A-4set		-		-		
		Digital ammeter 96sqmm With Built-in Selector Switch CL-1-2Nos		-		-		
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-4Nos		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Built-in Selector Switch CL-1-2Nos		-		-		
		Shunt trip coil-220V AC-4Nos		-		-		
		BUSBARS:		-		-		
		1000 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable coloured sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
i		2Nos 400A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, earth fault & short circuit protection-2sets		-		-		
		Independent manual spring closing mechanism-2sets		-		-		
		Extended Rotary Handle Mechanism -2Nos		-		-		
		Spreader Links For TPN MCCB 400A -2 sets		-		-		
		Phase Barrier For MCCB 250A-2set		-		-		
		Aux Contact Block For MCCB 400A-2set		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-2Nos		-		-		
		Shunt trip coil-220V AC-2Nos		-		-		
		Digital ammeter with selector switch with one set Suitable C.Ts.		-		-		
ii		1Nos 800A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-		-		
		Independent manual spring closing mechanism		-		-		
		Extended Rotary Handle Mechanism -1Nos		-		-		
		Spreader Links For 3P MCCB 800A -2 sets		-		-		
		Phase Barrier For MCCB 250A-1Nos		-		-		
		Aux Contact Block For MCCB 800A-1set		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Built-in Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB.		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		Digital ammeter with selector switch with one set Suitable C.Ts.		-		-		
4.4	NSR	<b>UPS O/P Panel</b>	JOB	1		-	301400	301400
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-		-		
		2no 400A 4P MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-2sets		-		-		
		Independent manual spring closing mechanism-2sets		-		-		
		Extended Rotary Handle Mechanism -2Nos		-		-		
		Spreader Links For TPN MCCB 400A -4 sets		-		-		
		Phase Barrier For MCCB 400A-2Nos		-		-		
		Aux Contact Block For MCCB 400A-4set		-		-		
		Digital ammeter 96sqmm With Built-in Selector Switch CL-1-2Nos		-		-		
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-4Nos		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Built-in Selector Switch CL-1-2Nos		-		-		
		Shunt trip coil-220V AC-4Nos		-		-		
		BUSBARS:		-		-		
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable coloured sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		1 Nos 800A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, earth fault & short circuit protection-2sets		-		-		
		Independent manual spring closing mechanism-2sets		-		-		
		Extended Rotary Handle Mechanism -1Nos		-		-		
		Spreader Links For TPN MCCB 800A -2sets		-		-		
		Phase Barrier For MCCB 250A-2set		-		-		
		Aux Contact Block For MCCB 800A-1set		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC-2Nos		-		-		
		Digital ammeter with selector switch with one set Suitable C.Ts.		-		-		
4.4A	NSR	<b>UPS Load Panel</b>	JOB	1		-	586500	586500

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-		-		
		2no 800A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-		-		
		Independent manual spring closing mechanism		-		-		
		Extended Rotary Handle Mechanism		-		-		
		Spreader Links For TPN MCCB 630A		-		-		
		Phase Barrier For MCCB 630A-2Nos		-		-		
		Aux Contact Block For MCCB 630A		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1		-		-		
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-4Nos		-		-		
		Shunt trip coil-220V AC-4Nos		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-2Nos		-		-		
		BUSBARS:		-		-		
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		4Nos 320A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, earth fault & short circuit protection-2sets		-		-		
		Independent manual spring closing mechanism-2sets		-		-		
		Extended Rotary Handle Mechanism -2Nos		-		-		
		Spreader Links For TPN MCCB 320A -4sets		-		-		
		Phase Barrier For MCCB 630A-2Set		-		-		
		Aux Contact Block For MCCB 320A-2set		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-2Nos		-		-		
		Shunt trip coil-220V AC-2Nos		-		-		
		Digital Ammeter 96sqmm With Builtin Selector Switch CTS-CL-1		-		-		
		10Nos. 63A TPN MCB		-		-		
4.5	NSR	<b>NORMAL LIGHTING POWER PANEL (NLPP-GF-Z2)</b>	JOB	1		-	209100	209100
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-		-		
		INCOMER:		-		-		
		160A 4P AUTO TRANSFER SWITCH (ATS) WITH 160A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-3sets		-		-		
		Surge Protection device-1no		-		-		
		Independent manual spring closing mechanism		-		-		
		Extended Rotary Handle Mechanism -1Nos		-		-		
		Spreader Links For 3P MCCB 160A -2 sets		-		-		
		Phase Barrier For MCCB 160A-1Nos		-		-		
		Aux Contact Block For MCCB 160A-1set		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB.		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		BUSBARS:		-		-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colour sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		1Nos. 63A TPN MCB		-		-		
		5Nos. 40A TPN MCB		-		-		
		1Nos. 32A DP MCB		-		-		
		4Nos. 25A DP MCB		-		-		
4.6	NSR	<b>NORMAL LIGHTING POWER PANEL (NLPP-FF-Z1)</b>	JOB	1		-	349200	349200

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE		
					Total for all blocks	Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-	-	-	-	-	
		INCOMER:		-	-	-	-	-	
		250A 4P AUTO TRANSFER SWITCH (ATS) WITH 250A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-	-	-	-	-	
		Surge Protection device-1no		-	-	-	-	-	
		Independent manual spring closing mechanism		-	-	-	-	-	
		Extended Rotary Handle Mechanism -1Nos		-	-	-	-	-	
		Spreader Links For 3P MCCB 250A -2 sets		-	-	-	-	-	
		Phase Barrier For MCCB 250A-1Nos		-	-	-	-	-	
		Aux Contact Block For MCCB 250A-1set		-	-	-	-	-	
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos		-	-	-	-	-	
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-	-	-	-	-	
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-	-	-	-	-	
		TPN MCB 6 Amps-1Nos		-	-	-	-	-	
		Shunt trip coil-220V AC		-	-	-	-	-	
		BUSBARS:		-	-	-	-	-	
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-	-	-	-	-	
		OUTGOING:		-	-	-	-	-	
		4Nos. 63A TPN MCB		-	-	-	-	-	
		13Nos. 40A TPN MCB		-	-	-	-	-	
		2Nos. 32A DP MCB		-	-	-	-	-	
		5Nos. 25A DP MCB		-	-	-	-	-	
		5Nos. 25A TPN MCB		-	-	-	-	-	
		2Nos. 125A TPN MCCB, LED Type ON Indicating lamps with 2A back up MCB		-	-	-	-	-	
4.7	NSR	<b>NORMAL LIGHTING POWER PANEL (NLPP-FF-Z2/NLPP-2F-Z1/NLPP-2F-Z2)</b>	JOB	3	-	-	311300	933900	
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-	-	-	-	-	
		INCOMER:		-	-	-	-	-	
		250A 4P AUTO TRANSFER SWITCH (ATS) 250A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-	-	-	-	-	
		Surge Protection device-1no		-	-	-	-	-	
		Independent manual spring closing mechanism		-	-	-	-	-	
		Extended Rotary Handle Mechanism -1Nos		-	-	-	-	-	
		Spreader Links For 3P MCCB 250A -2 sets		-	-	-	-	-	
		Phase Barrier For MCCB 250A-1Nos		-	-	-	-	-	
		Aux Contact Block For MCCB 250A-1set		-	-	-	-	-	
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos		-	-	-	-	-	
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-	-	-	-	-	
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB.		-	-	-	-	-	
		TPN MCB 6 Amps-1Nos		-	-	-	-	-	
		Shunt trip coil-220V AC		-	-	-	-	-	
		BUSBARS:		-	-	-	-	-	
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-	-	-	-	-	
		OUTGOING:		-	-	-	-	-	
		4 Nos. 63A TPN MCB		-	-	-	-	-	
		8 Nos. 40A TPN MCB		-	-	-	-	-	
		2 Nos. 32A DP MCB		-	-	-	-	-	
		9 Nos. 25A TPN MCB		-	-	-	-	-	
		9 Nos. 25A DP MCB		-	-	-	-	-	
				-	-	-	-	-	
				-	-	-	-	-	
4.8	NSR	<b>NORMAL LIGHTING POWER PANEL (NLPP-GF-Z1)</b>	JOB	1	-	-	311200	311200	
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-	-	-	-	-	
		INCOMER:		-	-	-	-	-	

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		250A 4P AUTO TRANSFER SWITCH (ATS) 250A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-		-		
		Surge Protection device-1no		-		-		
		Independent manual spring closing mechanism		-		-		
		Extended Rotary Handle Mechanism -1Nos		-		-		
		Spreader Links For 3P MCCB 250A -2sets		-		-		
		Phase Barrier For MCCB 250A-1Nos		-		-		
		Aux Contact Block For MCCB 250A-1set		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		BUSBARS:		-		-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		2 Nos. 63A TPN MCB		-		-		
		7 Nos. 40A TPN MCB		-		-		
		2 Nos. 25A DP MCB		-		-		
		2 Nos. 25A TPN MCB		-		-		
4.9	NSR	<b>FIRE EMERGENCY PANEL</b>	JOB	1		-	591300	591300
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required		-		-		
		INCOMER:		-		-		
		2nos 400A 4P Motorised MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-		-		
		Surge Protection device-2no		-		-		
		Independent manual spring closing mechanism		-		-		
		Extended Rotary Handle Mechanism -2Nos		-		-		
		Spreader Links For 3P MCCB 400A -4sets		-		-		
		Phase Barrier For MCCB 400A-2Nos		-		-		
		Aux Contact Block For MCCB 400A-2set		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-2Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		BUSBARS:		-		-		
		500 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-		-		
		INTERLOCKING AND AUTO CHANGE OVER		-		-		
		Electrical through advance contacts in MCCB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time .		-		-		
		OUTGOING:		-		-		
		3Nos 100A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-3sets		-		-		
		Independent manual spring closing mechanism-3sets		-		-		
		Knob -3Nos		-		-		
		Spreader Links For TPN MCCB 100A -6 sets		-		-		
		Phase Barrier For MCCB 100A-3Nos		-		-		
		Aux Contact Block For MCCB 100A-3set		-		-		
		Digital Type Ammeter 96sqmm With Builtin Selector Switch CL-1-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB -9Nos		-		-		
		TPN MCB 6 Amps-6Nos		-		-		
		Shunt trip coil-220V AC-6Nos		-		-		
		OUTGOING:		-		-		
		3Nos160A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-3sets		-		-		
		Independent manual spring closing mechanism-3sets		-		-		
		Knob -2Nos		-		-		
		Spreader Links For TPN MCCB 160A -6 sets		-		-		
		Phase Barrier For MCCB 160A-3Nos		-		-		
		Aux Contact Block For MCCB 160A-3set		-		-		
		Digital Type Ammeter 96sqmm With Builtin Selector Switch CL-1-3Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB -9Nos		-		-		
		TPN MCB 6 Amps-6Nos		-		-		
		Shunt trip coil-220V AC-6Nos		-		-		
		1Nos125A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		



Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-2sets		-		-		
		Independent manual spring closing mechanism-1sets		-		-		
		Knob -2Nos		-		-		
		Spreader Links For TPN MCCB 125A -2 sets		-		-		
		Phase Barrier For MCCB 125A-1Nos		-		-		
		Aux Contact Block For MCCB 125A-1set		-		-		
		Digital Type Ammeter 96sqmm With Builtin Selector Switch CL-1Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-3Nos		-		-		
		TPN MCB 6 Amps-2Nos		-		-		
		Shunt trip coil-220V AC-2Nos		-		-		
		3Nos 63A TPN MCCB of short circuit capacity of 20KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-3sets		-		-		
		Independent manual spring closing mechanism-3sets		-		-		
		Knob -3Nos		-		-		
		Spreader Links For TPN MCCB 63A -6 sets		-		-		
		Phase Barrier For MCCB 63A-3Nos		-		-		
		Aux Contact Block For MCCB 63A-3set		-		-		
		Digital Type Ammeter 96sqmm With Builtin Selector Switch CL-1-3Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-6Nos		-		-		
		TPN MCB 6 Amps-6Nos		-		-		
		Shunt trip coil-220V AC-6Nos		-		-		
4.10	NSR	<b>NORMAL LIGHTING POWER PANEL (NLPP-3F-ZZ/NLPP-4F-Z2)</b>	JOB	2		-	305400	610800
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-		-		
		INCOMER:		-		-		
		250A 4P AUTO TRANSFER SWITCH (ATS) 250A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with followiing accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-		-		
		Surge Protection device-1no		-		-		
		Independent manual spring closing mechanism		-		-		
		Extended Rotary Handle Mechanism -1Nos		-		-		
		Spreader Links For 3P MCCB 250A -2 sets		-		-		
		Phase Barrier For MCCB 250A-1Nos		-		-		
		Aux Contact Block For MCCB 250A-1set		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		BUSBARS:		-		-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		3Nos. 63A TPN MCB.		-		-		
		7Nos. 40A TPN MCB.		-		-		
		3Nos. 32A TPN MCB.		-		-		
		6Nos. 25A TPN MCB.		-		-		
		10Nos. 25A DP MCB.		-		-		
		1No. 32A DP MCB.		-		-		
4.11	NSR	<b>NORMAL LIGHTING POWER PANEL - NLPP-5F-Z2</b>	JOB	1		-	233400	233400
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-		-		
		INCOMER:		-		-		
		160A 4P AUTO TRANSFER SWITCH (ATS) 160A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with followiing accessories		-		-		
		Thermal magnetic release for overcurrent, short circuit protection & external ELR protection	Set	1		-		
		Surge Protection device-1no		-		-		
		Independent manual spring closing mechanism		-		-		
		Extended Rotary Handle Mechanism -1Nos		-		-		
		Spreader Links For 3P MCCB 160A -2 sets		-		-		
		Phase Barrier For MCCB 160A-1Nos		-		-		
		Aux Contact Block For MCCB 630A-1set		-		-		
		Digital Type Load manager+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		BUSBARS:		-		-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 25KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable coloured sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		3Nos. 63A TPN MCB		-		-		
		7Nos. 40A TPN MCB		-		-		
		5Nos. 25A DP MCB		-		-		
		1Nos. 32A DP MCB		-		-		
		4Nos. 32A TPN MCB		-		-		
		2Nos. 25A TPN MCB		-		-		
4.12	NSR	UPS POWER PANEL (UPS-GF-Z2/UPS-2F-Z1/UPS-3F-Z1/UPS-4F-Z1/UPS-5F-Z1)	JOB	5		-	211800	1059000
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-		-		
		INCOMER:		-		-		
		63A 4P AUTO TRANSFER SWITCH (ATS) 63A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR		-		-		
		Independent manual spring closing mechanism		-		-		
		Knob -1Nos		-		-		
		Spreader Links For 3P MCCB 63A -2 sets		-		-		
		Phase Barrier For MCCB 63A-1Nos		-		-		
		Aux Contact Block For MCCB 63A-1set		-		-		
		Digital load manager+RS 485 PORT 96sqmm With Built in Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		BUSBARS:		-		-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable coloured sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		1Nos. 25A DP MCB		-		-		
		3Nos. 40A TPN MCB		-		-		
4.13	NSR	UPS POWER PANEL (UPS-1F-Z2/UPS-2F-Z2/UPS-3F-Z2/UPS-4F-Z2)	JOB	4		-	178400	713600
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required		-		-		
		INCOMER:		-		-		
		63A 4P AUTO TRANSFER SWITCH (ATS) 63A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR		-		-		
		Independent manual spring closing mechanism		-		-		
		Knob -1Nos		-		-		
		Spreader Links For 3P MCCB 63A -2 sets		-		-		
		Phase Barrier For MCCB 63A-1Nos		-		-		
		Aux Contact Block For MCCB 63A-1set		-		-		
		Digital load manager+RS 485 PORT 96sqmm With Built in Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		BUSBARS:		-		-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable coloured sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		2Nos. 25A DP MCB		-		-		
		4Nos. 40A TPN MCB		-		-		
4.14	NSR	UPS POWER PANEL (UPS-1F-Z1/UPS-5F-Z2)	JOB	2		-	180800	361600

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required		-		-		
		INCOMER:		-		-		
		80A 4P AUTO TRANSFER SWITCH (ATS) 80A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended unto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR		-		-		
		Independent manual spring closing mechanism		-		-		
		Knob -1Nos		-		-		
		Spreader Links For 3P MCCB 80A -2 sets		-		-		
		Phase Barrier For MCCB 80A-1Nos		-		-		
		Aux Contact Block For MCCB 80A-1set		-		-		
		Digital load manager+RS 485 PORT 96sqmm With Buitin Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		80A 4P Auto Changeover switch		-		-		
		BUSBARS:		-		-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		4Nos. 25A DP MCB		-		-		
		4Nos. 40A TPN MCB		-		-		
4.15	NSR	UPS POWER PANEL (UPS - GF-ZI)	JOB	1		-	188600	188600
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required		-		-		
		INCOMER:		-		-		
		80A 4P AUTO TRANSFER SWITCH (ATS) 80A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended unto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR		-		-		
		Independent manual spring closing mechanism		-		-		
		Knob -1Nos		-		-		
		Spreader Links For 3P MCCB 80A -2 sets		-		-		
		Phase Barrier For MCCB 80A-1Nos		-		-		
		Aux Contact Block For MCCB 80A-1set		-		-		
		Digital load manager+RS 485 PORT 96sqmm With Buitin Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R,Y,B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC		-		-		
		80A 4P Auto Change Over Switch		-		-		
		BUSBARS:		-		-		
		300Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 10KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		2Nos. 25A TPN MCB		-		-		
		7Nos. 40A TPN MCB		-		-		
4.16	NSR	AUXILIARY MAIN LT PANEL	JOB	1		-	3605500	3605500
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following		-		-		
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire supression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories. iv) all necessary power & control cabling.		-		-		
		INCOMERS:		-		-		
		2 Nos 2500A 4P EDO ACB of short circuit capacity of 50KA ,Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended unto the date complete with followine accessories for ACB.		-		-		

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection		-		-		
		Independent manual spring closing mechanism-2sets		-		-		
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB, TPN MCB 6 Amps-2Nos		-		-		
		Micro PLC for braher control with Ethernet Output 1 set, 01 OFC to 1 Ethernet Converter-1 Set, Power Supply for Micro PLC - 1 No, necessary cabling, accessories, terminations, communication cabling etc.		-		-		
		Shunt trip coil-220V AC-2Nos		-		-		
		Transient voltage surge suppressor (TVSS)-1No.		-		-		
		Digital Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs . CL-2Nos		-		-		
				-		-		
				-		-		
		BUS COUPLER		-		-		
		1 Nos 2500A 4P EDO ACB of short circuit capacity of 50KA .Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-		-		
		Independent manual spring closing mechanism-1No		-		-		
		LED Type Indicating lamps ON with 2A back up MCB for test terminal block,fuses circuit contactor for positive electrical interlocking of breaker etc as required-1set		-		-		
				-		-		
				-		-		
		INTERLOCKING AND AUTO CHANGE OVER		-		-		
		Electrical through advance contacts in ACB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidentally approaching two supplies at one bus section		-		-		
				-		-		
		BUSBARS:		-		-		
		2500 Amp capacity extensible 4P Aluminium with ambient temperture 40degree and temperture rise of 45 degree celsius 50KA for 1sec.		-		-		
				-		-		
		OUTGOING with 2nos Potential free contacts for ON/OFF command:		-		-		
		6 Nos of 800A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
				-		-		
		Microprocessor release for overcurrent, Earth fault & short circuit protection-7sets		-		-		
		Independent manual spring closing mechanism-10set		-		-		
		Extended Rotary Handle Mechanism -10Nos		-		-		
		Spreader Links For 3P MCCB 800A -20 sets		-		-		
		Phase Barrier For MCCB 800A-10Nos		-		-		
		Aux Contact Block For MCCB 800A-10set		-		-		
		Digital Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs . CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-11Nos		-		-		
		TPN MCB 6 Amps-10Nos		-		-		
		Shunt trip coil-220V AC-10Nos		-		-		
				-		-		
		3 Nos 400A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
				-		-		
		Microprocessor release for overcurrent, Earth fault & short circuit protection-3sets		-		-		
		Independent manual spring closing mechanism-3set		-		-		
		Extended Rotary Handle Mechanism -3Nos		-		-		
		Spreader Links For TPN MCCB 400A -6sets		-		-		
		Phase Barrier For MCCB 400A-3No		-		-		
		Aux Contact Block For MCCB 400A-3set		-		-		
		Digital Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs . CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-3Nos		-		-		
		TPN MCB 6 Amps-3Nos		-		-		
		Shunt trip coil-220V AC-3Nos		-		-		
				-		-		
		2Nos 250A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
				-		-		
		Microprocessor release for overcurrent, Earth fault & short circuit protection-2sets		-		-		
		Independent manual spring closing mechanism-2set		-		-		
		Extended Rotary Handle Mechanism -2Nos		-		-		
		Spreader Links For TPN MCCB 250A -4 sets		-		-		
		Phase Barrier For MCCB 250A-2No		-		-		
		Aux Contact Block For MCCB 250A-2set		-		-		
		Digital Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs . CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-2Nos		-		-		
		TPN MCB 6 Amps-2Nos		-		-		
		Shunt trip coil-220V AC-2Nos		-		-		
				-		-		
		5Nos 630A TPN MCCB of short circuit capacity of 36KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
				-		-		
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1sets		-		-		
		Independent manual spring closing mechanism-5set		-		-		
		Extended Rotary Handle Mechanism -5Nos		-		-		
		Spreader Links For TPN MCCB 630A -10sets		-		-		
		Phase Barrier For MCCB 630A-5No		-		-		
		Aux Contact Block For MCCB 630A-5set		-		-		
				-		-		
		Digital Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs . CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-5Nos		-		-		
		TPN MCB 6 Amps-5Nos		-		-		
		Shunt trip coil-220V AC-5Nos		-		-		
				-		-		
				-		-		
4.17	NSR	Medical Equipment Panel	JOB	1		-	2769400	2769400
						-		

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following		-		-		
		Supplying, Installation, testing, commissioning of gas based fire suppression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories. iv) all necessary power & control cabling.		-		-		
		<b>INCOMERS:</b> 2 Nos 1000A 4P EDO ACB of short circuit capacity of 50KA .Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-		-		
		Microprocessor release for overcurrent & short circuit protection, Earth Fault protection, Restricted earth fault relay with 4 Nos. PS class cast resin CT's of suitable burden & ratio (1 No. at transformer & 3 Nos. at incomer) -2sets		-		-		
		Independent manual spring closing mechanism-2No		-		-		
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB, TPN MCB 6 Amps-2Nos		-		-		
		Micro PLC for braher control with Ethernet Output 1 set, 01 OFC to 1 Ethernet Converter-1 Set, Power Supply for Micro PLC - 1 No, necessary cabling, accessories, terminations, communication cabling etc.		-		-		
		Shunt trip coil-220V AC-2Nos		-		-		
		Transient voltage surge suppressor (TVSS)-2No.		-		-		
		Digital type Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs , CL-2Nos		-		-		
				-		-		
		<b>BUS COUPLER</b>		-		-		
		1 Nos 1000A 4P EDO ACB of short circuit capacity of 50KA .Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.		-		-		
		Independent manual spring closing mechanism-1No		-		-		
		LED Type Indicating lamps ON with 2A back up MCB for test terminal block,fuses circuit contactor for positive electrical interlocking of breaker etc as required-1set		-		-		
				-		-		
		<b>INTERLOCKING AND AUTO CHANGE OVER</b> Electrical through advance contacts in ACB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidentally approaching two supplies at one bus section		-		-		
				-		-		
		<b>BUSBARS:</b>		-		-		
		1000 Amp capacity extensible 4P Aluminium with ambient temperture 40degree and temperture rise of 45 degree celsius 50kA for 1sec.		-		-		
				-		-		
		<b>OUTGOING with 2nos Potential free contacts for ON/OFF command:</b>		-		-		
		9 Nos 250A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Microprocessor release for overcurrent, Earth fault & short circuit protection-1SET		-		-		
		Independent manual spring closing mechanism-9set		-		-		
		Extended Rotary Handle Mechanism -9no		-		-		
		Spreader Links For 3P MCCB 250A -18sets		-		-		
		Phase Barrier For MCCB 250A-18Nos		-		-		
		Aux Contact Block For MCCB 250A-1set		-		-		
		Digital type Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs , CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-1Nos		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC-1Nos		-		-		
		2Nos 630A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Microprocessor release for overcurrent, Earth fault & short circuit protection-2sets		-		-		
		Digital type Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs , CL-2Nos		-		-		
		Independent manual spring closing mechanism-2set		-		-		
		Extended Rotary Handle Mechanism -2Nos		-		-		
		Spreader Links For TPN MCCB 630A -4 sets		-		-		
		Phase Barrier For MCCB 630A-4No		-		-		
		Aux Contact Block For MCCB 630A-4set		-		-		
		Digital type Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs , CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-4Nos		-		-		
		TPN MCB 6 Amps-4Nos		-		-		
		6Nos 160A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-6sets		-		-		
		Independent manual spring closing mechanism-6set		-		-		
		Knob -6Nos		-		-		
		Spreader Links For TPN MCCB 160A -12 sets		-		-		
		Phase Barrier For MCCB 160A-6No		-		-		
		Aux Contact Block For MCCB 160A-6set		-		-		
		Digital type Load Manager with RS 485 & RS232 port-2 96sqmm With Builtin Selector Switch CTs , CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-6Nos		-		-		
		TPN MCB 6 Amps-6Nos		-		-		

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		3Nos 125A TPN MCCB of short circuit capacity of 50KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-3sets		-		-		
		Independent manual spring closing mechanism-3set		-		-		
		Knob -3Nos		-		-		
		Spreader Links For TPN MCCB 125A -6 sets		-		-		
		Phase Barrier For MCCB 125A-3No		-		-		
		Aux Contact Block For MCCB 125A-3set		-		-		
		Digital type Load Manager with RS 485 & RS232 port-2 96sqmm With Buitin Selector Switch CTs , CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-6Nos		-		-		
		TPN MCB 6 Amps-3Nos		-		-		
		7Nos 63A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-7sets		-		-		
		Independent manual spring closing mechanism-7set		-		-		
		Knob -7Nos		-		-		
		Spreader Links For TPN MCCB 63A -14 sets		-		-		
		Phase Barrier For MCCB 63A-7No		-		-		
		Aux Contact Block For MCCB 63A-7set		-		-		
		Digital type Load Manager with RS 485 & RS232 port-2 96sqmm With Buitin Selector Switch CTs , CL-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-7Nos		-		-		
		TPN MCB 6 Amps-7Nos		-		-		
4.18	NSR	<b>VENTILATION FAN PANEL -01 &amp; VENTILATION FAN PANEL -02</b>	JOB	2		-	80780	161560
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid conections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following		-		-		
		INCOMERS:		-		-		
		1Nos 100A TPN MCCB of short circuit capacity of 11KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-1sets		-		-		
		Independent manual spring closing mechanism-1sets, Knob -1Nos		-		-		
		knob-1no		-		-		
		Spreader Links For TPN MCCB 100A -2 sets		-		-		
		Phase Barrier For MCCB 100A-1Nos		-		-		
		Aux Contact Block For MCCB 100A-1set		-		-		
		Digital load manager+RS 485 PORT 96sqmm With Buitin Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R.Y.B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC-1Nos		-		-		
		BUSBARS:		-		-		
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 11KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports		-		-		
		OUTGOING:		-		-		
		2Nos. 63A TPN MCB		-		-		
		2Nos. 40A TPN MCB		-		-		
		4Nos. 16A TPN MCB		-		-		
		11Nos. 25A TPN MCB		-		-		
4.19	NSR	<b>FIRE ELEVATOR PANEL</b>	JOB	1		-	91600	91600
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid conections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc.complete as required with following		-		-		
		INCOMERS:		-		-		
		1Nos 160A TPN MCCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-		-		
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-1sets		-		-		
		Independent manual spring closing mechanism-1sets, Knob -1Nos		-		-		
		Knob-1no		-		-		
		Spreader Links For TPN MCCB 160A -2 sets		-		-		
		Phase Barrier For MCCB 160A-1Nos		-		-		
		Aux Contact Block For MCCB 160A-1set		-		-		
		Digital load manager+RS 485 PORT 96sqmm With Buitin Selector Switch CL-1-1Nos		-		-		
		LED Type Indicating lamps R.Y.B -3Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-1Nos		-		-		
		Shunt trip coil-220V AC-1Nos		-		-		

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		BUSBARS:						
		300 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 11KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		2Nos. 63A TPN MCB						
		8Nos. 40A TPN MCB						
		10Nos. 25A DP MCB						
4.20	NSR	<b>EMERGENCY LIGHTING PANEL (ELPP-01 &amp; ELPP-02)</b>	JOB	2			75500	151000
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following						
		INCOMERS:						
		1Nos 63A TPN MCB of short circuit capacity of 10KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories						
		Thermal magnetic release for overcurrent & short circuit protection with external ELR-1sets						
		Independent manual spring closing mechanism-1sets, Knob -1Nos						
		Knob-1no						
		Spreader Links For TPN MCB 63A -2 sets						
		Phase Barrier For MCB 63A-1Nos						
		Aux Contact Block For MCB 63A-1set						
		Digital load manager+RS 485 PORT 96sqmm With Buitin Selector Switch CL-1-1Nos						
		LED Type Indicating lamps R.Y.B -3Nos with 2A back up MCB						
		LED Type Indicating lamps On,Off,Trip -3Nos with 2A back up MCB						
		TPN MCB 6 Amps-1Nos						
		Shunt trip coil-220V AC-1Nos						
		BUSBARS:						
		300Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 11KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports						
		OUTGOING:						
		12Nos. 40A TPN MCB						
4.21	NSR	<b>MAIN LT PANEL</b>	JOB	1			14380000	14380000
		Supplying, Installation, testing, commissioning of Compartmentalized cubical panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc,complete as required with following						
		Supplying, Installation, testing, commissioning of gas based fire supression system in all compartment of LT panels complete with : i) Heat sensing cable with sensors mounted in an encapsulation at regular intervals, pinpoint sensor location via individual address, constant sensor monitoring via control unit & including necessary connection box, fixing accessories etc. Cable shall detect fixed as well as rate of rise of temperature. ii) Cable connection box & controller (Controller shall have provision to give signal to fire alarm panel) iii) Fire suppression gas cylinders to extinguish fire with necessary control panel to receive command from fire panel for Gas release, necessary piping & nozzels in LT panel compartments with all fixing accessories. iv) all necessary power & control cabling.						
		NOTE : Interconnection of all control Cable and Accessories etc complete in the scope of supply, including Foundation as per manufacture recommendations & complete in ready to use condition						
		INCOMERS:						
		3 Nos 3200A 4P EDO ACB of short circuit capacity of 50KA ,Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories for ACB.						
		Microprocessor release for overcurrent & short circuit protection,Restricted earth fault relay with 4 Nos. PS class cast resin CT's of suitable burden & ratio (1 No. at transformer & 3 Nos. at incomer) -2sets						
		Independent manual spring closing mechanism-2sets						
		LED Type Indicating lamps R.Y.B -6Nos with 2A back up MCB						
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB, TPN MCB 6 Amps-2Nos						
		Micro PLC for braher control with Ethernet Output 1 set, 01 OFC to 1 Ethernet Converter-1 Set, Power Supply for Micro PLC - 1 No, necessary cabling, accessories, terminations, communication cabling etc.						
		Shunt trip coil-220V AC-2Nos						
		Transient voltage surge suppressor (TVSS)-1No.						
		Digital Type Load Manager with RS 485 & RS232 port-2 96sqmm With Buitin Selector Switch CT's , CL-2Nos						
		Dual ration 3200A/1600A/5A/5ACT for APFC sensing with Dav /Night Switch.						
		BUS COUPLER						
		2 Nos 3200A 4P EDO ACB of short circuit capacity of 50KA ,Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with followine accessories for ACB.						
		Independent manual spring closing mechanism-1No						
		LED Type Indicating lamps ON with 2A back up MCB for test terminal block,fuses circuit contactor for positive electrical interlocking of breaker etc as required-1set						

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE		
					Total for all blocks	Rate	Amount	Rate	Total Amount
		INTERLOCKING AND AUTO CHANGE OVER		-	-	-	-	-	
		Electrical through advance contacts in ACB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidentally approaching two supplies at one bus section		-	-	-	-	-	
		BUSBARS:		-	-	-	-	-	
		3200 Amp capacity extensible 4P Aluminium with ambient temperture 40degree and temperture rise of 45 degree celsius 50kA for 1sec.		-	-	-	-	-	
		OUTGOING with 2nos Potential free contacts for ON/OFF command:		-	-	-	-	-	
		4Nos of 2500A TPN ACB of short circuit capacity of 50kA, fitted with interlocked doors, automatic safety shutters, meachial ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 497-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release for overcurrent, Earth fault & short circuit protection-4sets		-	-	-	-	-	
		Independent manual spring closing mechanism-4set		-	-	-	-	-	
		Extended Rotary Handle Mechanism -4Nos		-	-	-	-	-	
		Spreader Links For 3P ACB 2500A -8 sets		-	-	-	-	-	
		Phase Barrier For ACB 2500A-4Nos		-	-	-	-	-	
		Aux Contact Block For ACB 2500A-4set		-	-	-	-	-	
		Digital Type Load Manager Meter+RS 485 PORT 96sqmm With Buitlin Selector Switch CL-1-2Nos		-	-	-	-	-	
		LED Type Indicating lamps On with 2A back up MCB-4Nos		-	-	-	-	-	
		TPN MCB 6 Amps-4Nos		-	-	-	-	-	
		Shunt trip coil-220V AC-4Nos		-	-	-	-	-	
		6 Nos of 800A TPN MCCB of short circuit capacity of 50kA, fitted with interlocked doors, automatic safety shutters, meachial ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release for overcurrent, Earth fault & short circuit protection-6 sets		-	-	-	-	-	
		Independent manual spring closing mechanism-6 set		-	-	-	-	-	
		Extended Rotary Handle Mechanism -6Nos		-	-	-	-	-	
		Spreader Links For 3P MCCB 800A - 12 sets		-	-	-	-	-	
		Phase Barrier For MCCB 800A-6Nos		-	-	-	-	-	
		Aux Contact Block For MCCB 800A- 6set		-	-	-	-	-	
		Digital Type Load Manager Meter+RS 485 PORT 96sqmm With Buitlin Selector Switch CL-1-2Nos		-	-	-	-	-	
		LED Type Indicating lamps On with 2A back up MCB- 6Nos		-	-	-	-	-	
		TPN MCB 6 Amps- 6Nos		-	-	-	-	-	
		Shunt trip coil-220V AC- 6Nos		-	-	-	-	-	
		3 Nos 400A TPN MCCB of short circuit capacity of 50kA, fitted with interlocked doors, automatic safety shutters, meachial ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release for overcurrent, Earth fault & short circuit protection- 3sets		-	-	-	-	-	
		Independent manual spring closing mechanism- 3 set		-	-	-	-	-	
		Extended Rotary Handle Mechanism -3 Nos		-	-	-	-	-	
		Spreader Links For TPN MCCB 400A -6 sets		-	-	-	-	-	
		Phase Barrier For MCCB 400A-3 No		-	-	-	-	-	
		Aux Contact Block For MCCB 400A-3 set		-	-	-	-	-	
		Digital Type Load Manager Meter+RS 485 PORT 96sqmm With Buitlin Selector Switch CL-1-2Nos		-	-	-	-	-	
		LED Type Indicating lamps On with 2A back up MCB- 3Nos		-	-	-	-	-	
		TPN MCB 6 Amps-3Nos		-	-	-	-	-	
		Shunt trip coil-220V AC-3Nos		-	-	-	-	-	
		4Nos 250A TPN MCCB of short circuit capacity of 50kA, fitted with interlocked doors, automatic safety shutters, meachial ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1396-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release for overcurrent, Earth fault & short circuit protection-4 sets		-	-	-	-	-	
		Independent manual spring closing mechanism- 4set		-	-	-	-	-	
		Extended Rotary Handle Mechanism -4 Nos		-	-	-	-	-	
		Spreader Links For TPN MCCB 250A - 8 sets		-	-	-	-	-	
		Phase Barrier For MCCB 250A-4No		-	-	-	-	-	
		Aux Contact Block For MCCB 250A-4 set		-	-	-	-	-	
		Digital Type Load Manager Meter+RS 485 PORT 96sqmm With Buitlin Selector Switch CL-1-2Nos		-	-	-	-	-	
		LED Type Indicating lamps On with 2A back up MCB- 4Nos		-	-	-	-	-	
		TPN MCB 6 Amps-4Nos		-	-	-	-	-	
		Shunt trip coil-220V AC-4Nos		-	-	-	-	-	
		16Nos 630A TPN MCCB of short circuit capacity of 50kA, fitted with interlocked doors, automatic safety shutters, meachial ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release for overcurrent, Earth fault & short circuit protection-16sets		-	-	-	-	-	
		Independent manual spring closing mechanism-16set		-	-	-	-	-	
		Extended Rotary Handle Mechanism -16Nos		-	-	-	-	-	
		Spreader Links For TPN MCCB 630A -32sets		-	-	-	-	-	
		Phase Barrier For MCCB 630A-16No		-	-	-	-	-	
		Aux Contact Block For MCCB 630A-16set		-	-	-	-	-	
		Digital Type Load Manager Meter+RS 485 PORT 96sqmm With Buitlin Selector Switch CL-1-2Nos		-	-	-	-	-	
		LED Type Indicating lamps On with 2A back up MCB-16Nos		-	-	-	-	-	
		TPN MCB 6 Amps-16Nos		-	-	-	-	-	
		Shunt trip coil-220V AC-16Nos		-	-	-	-	-	
		4Nos of 1000A TPN ACB of short circuit capacity of 50kA, fitted with interlocked doors, automatic safety shutters, meachial ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 497-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release for overcurrent, Earth fault & short circuit protection-4sets		-	-	-	-	-	
		Independent manual spring closing mechanism-4set		-	-	-	-	-	
		Extended Rotary Handle Mechanism -4Nos		-	-	-	-	-	
		Spreader Links For 3P ACB 1000A -8 sets		-	-	-	-	-	
		Phase Barrier For ACB 1000A-4Nos		-	-	-	-	-	
		Aux Contact Block For ACB 1000A-4set		-	-	-	-	-	
		Digital Type Load Manager Meter+RS 485 PORT 96sqmm With Buitlin Selector Switch CL-1-2Nos		-	-	-	-	-	
		LED Type Indicating lamps On with 2A back up MCB-4Nos		-	-	-	-	-	
		TPN MCB 6 Amps-4Nos		-	-	-	-	-	
		Shunt trip coil-220V AC-4Nos		-	-	-	-	-	
		5Nos of 1250A TPN ACB of short circuit capacity of 50kA, fitted with interlocked doors, automatic safety shutters, meachial ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 497-2:1983 as ammended upto the date complete with following accessories		-	-	-	-	-	
		Microprocessor release for overcurrent, Earth fault & short circuit protection-5 sets		-	-	-	-	-	
		Independent manual spring closing mechanism-5 set		-	-	-	-	-	
		Extended Rotary Handle Mechanism -5 Nos		-	-	-	-	-	
		Spreader Links For 3P ACB 1250A - 10sets		-	-	-	-	-	



Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Phase Barrier For ACB 1250A-4Nos		-		-		
		Aux Contact Block For ACB 1250A-4set		-		-		
		Digital Type Load Manager Meter+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-2Nos		-		-		
		LED Type Indicating lamps On with 2A back up MCB-4Nos		-		-		
		TPN MCB 6 Amps-4Nos		-		-		
		Shunt trip coil-220V AC-4Nos		-		-		
				-		-		
4.22	NSR	<b>HVAC PANEL</b>	JOB	1		-	727300	727300
		Supplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process, powder coating in approved shade along with bottom base MS channel of section not less than 100mm x 50mm x 5mm thick, fabrication shall be done in transportable sections, free standing type totally enclosed dust and vermin proof having independent compartments with door having locking and sealing arrangement having suitable space for mounting of Equipment as per SLD, provision for Top/bottom cable entry as per site and including the lugs, panel wiring between busbars and meter, making solid connections between main busbar & all switchgear with required size of Aluminum busbar & control wiring with not less than 2.5Sqmm cu FRLS PVC wires, loop earthing, powder coating with approved shade, providing ventilation arrangement, gaskets, easily openable knobs, lettering etc, complete as required		-		-		
		2no 630A TPN MCCB of short circuit capacity of 25KA, fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories		-		-		
		Microprocessor release (EMI & EMC certified) for overcurrent, Earth fault & short circuit protection-2sets		-		-		
		Independent manual spring closing mechanism-2sets		-		-		
		Extended Rotary Handle Mechanism-2Nos		-		-		
		Spreader Links For TPN MCCB 630A-4 sets		-		-		
		Phase Barrier For MCCB 630A-2Nos		-		-		
		Aux Contact Block For MCCB 630A-4set		-		-		
		Digital Type Load Manager Meter+RS 485 PORT 96sqmm With Builtin Selector Switch CL-1-2Nos		-		-		
		LED Type Indicating lamps R,Y,B -6Nos with 2A back up MCB		-		-		
		LED Type Indicating lamps On,Off,Trip -6Nos with 2A back up MCB		-		-		
		TPN MCB 6 Amps-4Nos		-		-		
		Shunt trip coil-220V AC-4Nos		-		-		
				-		-		
		<b>BUS COUPLER</b>		-		-		
		1 Nos 630A TPN MCCB of short circuit capacity of 50kA .Electrically operated fitted with interlocked doors, automatic safety shutters, mechanical ON/OFF and service/test/isolated position indicators and frame earthing contact conforming to IS 1397-2:1983 as amended upto the date complete with following accessories for ACB.		-		-		
		Independent manual spring closing mechanism-1No		-		-		
		LED Type Indicating lamps ON with 2A back up MCB for test terminal block,fuses circuit contactor for positive electrical interlocking of breaker etc as required-1set		-		-		
				-		-		
		<b>INTERLOCKING AND AUTO CHANGE OVER</b>		-		-		
		Electrical through advance contacts in MCCB incomers and Mechanical (castel key) interlocking should be provided to insure that only one supply is available at a time.		-		-		
				-		-		
		<b>BUSBARS:</b>		-		-		
		800 Amp capacity extensible TPN Aluminium Alloy Busbars of high conductivity, with short circuit withstand capacity of 20KA for 1 second, entire panel shall have common earth busbar with 2 nos. earth stud with heat shrinkable colourd sleeves. DMC/SMC busbar supports.		-		-		
				-		-		
		<b>OUTGOING:</b>		-		-		
		7Nos. 40A TPN MCCB& ammeter		-		-		
		15Nos. 63A TPN MCCB& ammeter		-		-		
		5Nos. 80A TPN MCCB& ammeter		-		-		
				-		-		
		<b>Total Carried to Summary</b>		-		-		67913356
<b>5</b>		<b>SUBHEAD 5- BUS DUCTING &amp; RISING MAIN</b>		-		-		
				-		-		
5.1		Supplying, Installation, including suspension testing, commissioning of following <b>Sandwich</b> bus trunking with aluminium bus bars having current density of 130A/sq. cm at nominal current rating in 1.6mm thick, <b>IP 65</b> sheet steel enclosure with Aluminium canopy in convenient sections for use on, 3phase, 4 wire, 415V, 50Hz, A.C. supply including jointing of sections, flexible connections, expansion joints, bends, Terminal flange ends and earthing with 2 runs of galvanised iron strips, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc as required. Note- for outdoor installtion canopy will be mounted on bus duct for protection. Canopy Fabricated out of 1.2mm GI/CRCA powder painted		-		-		
5.1.1	NSR	3200A	meter	60			38,900	2334000
5.1.1	NSR	2000A	meter	100			25,700	2570000
5.1.2	NSR	1000A	meter	40			22,312	892480
5.1.3	NSR	1600A	meter	20			31,893	637860
5.2		Supplying, installation, testing & commissioning of following capacity End Feed Unit for the Sandwich bus trunking / rising mains for use on 3 phase 4 wire 415 V, 50Hz A.C. Supply made with 1.6mm thick steel sheet enclosure (IP54) duly powder caoted with provision of MCCB/ ACB (but without MCCB/ACB)complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.		-		-		
5.2.1	D.S.R	315A , Isc = 25 kA for 1 second	Each	4			73300	293200
5.2.1	D.S.R	800A , Isc = 50 kA for 1 second	Each	4			97300	389200
5.3		Supplying, installation, testing & commissioning of following capacity Plug in/tap off box on the existing Sandwich bus trunking / rising mains for use on 3 phase 4 wire 415 V, 50Hz A.C. Supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder caoted with provision of MCCB/ (but without MCCB) complete etc. as required.		-		-		
5.3.1	NSR	63A , Isc = 25 kA for 1 second	Each	18			10461	188298
5.3.2	NSR	80A , Isc = 25 kA for 1 second	Each	6			10461	62766
5.3.3	NSR	250A , Isc = 25 kA for 1 second	Each	16			52800	844800
5.3.4	NSR	160 A , Isc = 25 kA for 1 second	Each	20			22000	440000

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
5.3.3	NSR	320A , Isc = 25 kA for 1 second	Each	2			52800	105600
5.4		Supplying , installing by suspension on ceiling/along the wall, testing and commissioning of following capacity sandwich type rising mains for use on 3 phase 4 wire 415v, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos. aluminum bus bars having current density of 130 A/ sq.cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every meter, adopter box and copper flexible for joints , continuous earthing with 2 Nos. aluminum strip of suitable size (one on each side) including , G.I. clamping brackets, suspenders , angle iron bracket, steel fasteners, connecting to earthing system etc. as required.(Each length of rising main shall have minimum two plug-in provisions per floor)		-				
5.4.1	NSR	315A , Isc = 30 kA for 1 second	Meter	110			10000	1100000
5.4.2	NSR	800A , Isc = 30 kA for 1 second	Meter	110			13600	1496000
				-			-	-
		<b>Total Carried to Summary</b>		-			-	11354204
6.0		<b>SUBHEAD 5- BUS DUCTING &amp; RISING MAIN</b>		-			-	-
6.1	7	<b>MV CABLES</b>		-			-	-
6.1.1	7.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.		-			-	-
6.1.1.1	7.1.1	Upto 35 sq. mm	meter	22,550	206	46,45,300		
6.1.1.2	7.1.2	Above 35 sq. mm and upto 95 sq. mm	meter	2,550	214	5,45,700		
6.1.1.3	7.1.3	Above 95 sq. mm and upto 185 sq. mm	meter	880	223	1,96,240		
6.1.1.4	7.1.4	Above 185 sq. mm and upto 400 sq. mm	meter	4,850	248	12,02,800		
6.1.2	7.2	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required.		-		-		
6.1.2.1	7.2.1	Upto 35 sq. mm	meter	450	141	63,450		
6.1.2.2	7.2.2	Above 35 sq. mm and upto 95 sq. mm	meter	475	149	70,775		
6.1.2.3	7.2.3	Above 95 sq. mm and upto 185 sq. mm	meter	360	158	56,880		
6.1.2.4	7.2.4	Above 185 sq. mm and upto 400 sq. mm	meter	475	183	86,925		
6.1.3	7.7	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required.		-		-		
6.1.3.1	7.7.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	meter	1,300	25	32,500		
6.1.3.2	7.7.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	meter	100	72	7,200		
6.1.3.3	7.7.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/ 40x3mm MS flat clamp)	meter	50	84	4,200		
6.1.3.4	7.7.4	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	meter	50	120	6,000		
6.1.3.5	7.8	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on cable tray as required.		-		-		
6.1.3.6	7.8.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	meter	44,671	21	9,38,097		
6.1.3.7	7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	meter	4,504	49	2,20,672		
6.1.3.8	7.8.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/ 40x3mm MS flat clamp)	meter	2,070	61	1,26,270		
6.1.3.9	7.8.4	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	meter	4,050	96	3,88,800		
6.13.10		Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/Hume/Stoneware/Metal pipe as required		-		-		
		Above 185 sq. mm and upto 400 sq. mm	meter	3,000	65	1,95,000		
6.1.4	7.9	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) of size 60 cm X 60 cm at the bottom and 50cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.	each	7	333	2,331		
6.1.5	7.10	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	each	12	269	3,228		
6.1.6		Supply of 1100V grade XLPE/PVC insulated sheathed & armoured (unless otherwise specified as flexible) Fire Retarded Low Smoke (FRLS) cables indoor or outdoor on existing trays/walls/columns/ indoor/ trenches complete as per specifications, as required and as below		-		-		
6.1.6.1	NSR	3.5C 400 Sqmm XLPE AL	meter	500	-	-	1,500	750000
6.1.6.1	NSR	3.5C 300 Sqmm XLPE AL	meter	8,000	-	-	1,088	8704000
6.1.6.2	NSR	3.5C 240 Sqmm XLPE AL	meter	1,300	-	-	888	1154400
6.1.6.3	NSR	3.5C 185 Sqmm XLPE AL	meter	1,390	-	-	704	978560
6.1.6.4	NSR	3.5C 120 Sqmm XLPE AL	meter	540	-	-	477	257580
6.1.6.5	NSR	3.5C 95 Sqmm XLPE AL	meter	2,100	-	-	382	802200
6.1.6.6	NSR	3.5C 70 Sqmm XLPE AL	meter	1,345	-	-	307	412915
6.1.6.7	NSR	3.5C 50 Sqmm XLPE AL	meter	3,415	-	-	226	771790
6.1.6.8	NSR	3.5C 35 Sqmm XLPE AL	meter	2,250	-	-	176	396000
6.1.6.9	NSR	3.5C 25 Sqmm XLPE AL	meter	5,408	-	-	142	767936
6.1.6.10	NSR	4C 25 Sqmm XLPE AL	meter	355	-	-	180	63900
6.1.6.11	NSR	4C 16 Sqmm XLPE AL	meter	8,569	-	-	116	994004
6.1.6.12	NSR	4C 10 Sqmm XLPE AL	meter	6,057	-	-	102	617814
6.1.6.13	NSR	3C 16 Sqmm XLPE AL	meter	500	-	-	95	47500
6.1.6.14	NSR	3C 10 Sqmm XLPE AL	meter	60	-	-	90	5400
6.1.6.15	NSR	4C 10 Sqmm XLPE CU	meter	860	-	-	383	329380
6.1.6.16	NSR	4C 6 Sqmm XLPE CU	meter	7,511	-	-	246	1847706
6.1.6.17	NSR	4C 4 Sqmm XLPE CU	meter	5,115	-	-	176	900240
6.1.6.18	NSR	3C 6 Sqmm XLPE CU	meter	3,159	-	-	191	603369
6.1.6.19	NSR	3C 4 Sqmm XLPE CU	meter	10,385	-	-	139	1443515
6.1.6.20	NSR	3C 2.5 Sqmm XLPE CU	meter	995	-	-	104	103480
6.1.6.21	NSR	1C 300 Sqmm XLPE CU Flexible cable	meter	550	-	-	300	165000
6.1.6.22	NSR	1C 185 Sqmm XLPE CU Flexible cable	meter	844	-	-	150	126600
6.1.6.23	NSR	1C 25 Sqmm XLPE CU Flexible cable	meter	125	-	-	120	15000
6.1.6.24	NSR	1C 6 Sqmm XLPE CU Flexible cable	meter	294	-	-	37	10878
6.1.6.25	NSR	4C 2.5 Sqmm XLPE CU	meter	700	-	-	145	101500
6.1.6.26	NSR	4C 1.5 Sqmm XLPE CU	meter	370	-	-	34	12580
6.1.6.27	NSR	12C 2.5 Sqmm XLPE CU	meter	475	-	-	117	55575
6.1.6.28	NSR	24C 1.5 Sqmm XLPE CU	meter	300	-	-	145	43500



Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE		
					Total for all blocks	Rate	Amount	Rate	Total Amount
7.1.1.8	4.6.14	600 mm width X 75 mm depth X 2.0 mm thickness	meter	630	1,360	8,56,800			
7.1.1.9	4.6.15	750 mm width X 75 mm depth X 2.0 mm thickness	meter	205	1,616	3,31,280			
7.2	4.7	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-		-			
7.2.1	4.7.1	100 mm width X 50 mm depth X 1.6 mm thickness	Each	106	817	86,602			
7.2.2	4.7.2	150 mm width X 50 mm depth X 1.6 mm thickness	Each	105	976	1,02,480			
7.2.3	4.7.4	300 mm width X 50 mm depth X 1.6 mm thickness	Each	155	1,447	2,24,285			
7.2.4	4.7.6	450 mm width X 50 mm depth X 2.0 mm thickness	Each	33	2,184	72,072			
7.2.5	4.7.7	600 mm width X 50 mm depth X 2.0 mm thickness	Each	8	2,731	21,848			
7.2.6	4.7.8	300 mm width X 62.5 mm depth X 2.0 mm thickness	Each	10	1,713	17,130			
7.2.7	4.7.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	12	2,318	27,816			
7.2.8	4.7.14	600 mm width X 75 mm depth X 2.0 mm thickness	Each	34	2,962	1,00,116			
7.2.9	4.7.15	750 mm width X 75 mm depth X 2.0 mm thickness	Each	14	3,562	49,156			
7.3	4.8	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-		-			
7.3.1	4.8.1	100 mm width X 50 mm depth X 1.6 mm thickness	Each	1	941	941			
7.3.2	4.8.2	150 mm width X 50 mm depth X 1.6 mm thickness	Each	51	976	49,776			
7.3.3	4.8.4	300 mm width X 50 mm depth X 1.6 mm thickness	Each	76	1,695	1,28,820			
7.3.4	4.8.6	450 mm width X 50 mm depth X 2.0 mm thickness	Each	18	2,576	46,368			
7.3.5	4.8.7	600 mm width X 50 mm depth X 2.0 mm thickness	Each	2	3,228	6,456			
7.3.6	4.8.8	300 mm width X 62.5 mm depth X 2.0 mm thickness	Each	3	2,013	6,039			
7.3.7	4.8.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	1	2,724	2,724			
7.3.8	4.8.14	600 mm width X 75 mm depth X 2.0 mm thickness	Each	2	3,490	6,980			
7.3.9	4.8.15	750 mm width X 75 mm depth X 2.0 mm thickness	Each	1	4,209	4,209			
7.4	4.9	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Cross member" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-		-			
7.4.1	4.9.4	300 mm width X 50 mm depth X 1.6 mm thickness	Each	11	1,695	18,645			
7.4.2	4.9.6	450 mm width X 50 mm depth X 2.0 mm thickness	Each	3	2,576	7,728			
7.4.3	4.9.7	600 mm width X 50 mm depth X 2.0 mm thickness	Each	2	3,227	6,454			
7.4.4	4.9.14	600 mm width X 75 mm depth X 2.0 mm thickness	Each	1	3,490	3,490			
7.4.5	4.9.15	750 mm width X 75 mm depth X 2.0 mm thickness	Each	1	3,045	3,045			
7.5	4.10	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-		-			
7.5.1	4.10.4	300 mm width X 50 mm depth X 1.6 mm thickness	Each	16	2,954	47,264			
7.5.2	4.10.6	450 mm width X 50 mm depth X 2.0 mm thickness	Each	13	3,776	49,088			
7.5.3	4.10.7	600 mm width X 50 mm depth X 2.0 mm thickness	Each	14	5,227	73,178			
7.5.4	4.10.14	600 mm width X 75 mm depth X 2.0 mm thickness	Each	14	5,150	72,100			
7.5.5	4.10.15	750 mm width X 75 mm depth X 2.0 mm thickness	Each	12	6,502	78,024			
7.6.1		Supplying and installing following size of Ladder Hot Dipped Galvanised Iron cable tray (galvanisation thickness not less than 50 microns) with rungs of 40mm & at 250mm center to center, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-		-			
7.6.1.1	NSR	450 mm width X 50 mm depth X 2.0 mm thickness	meter	350	-	-	732	256200	
7.6.1.2	NSR	600 mm width X 50 mm depth X 2.0 mm thickness	meter	355	-	-	806	286130	
7.6.1.3	NSR	900 mm width X 75 mm depth X 2.0 mm thickness	meter	275	-	-	1,073	295075	
7.7		Supplying and installing following size of Ladder Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-		-			
7.7.1	NSR	450 mm width X 50 mm depth X 2.0 mm thickness	Each	23	-	-	1,410	32430	
7.7.2	NSR	600 mm width X 50 mm depth X 2.0 mm thickness	Each	26	-	-	1,572	40872	
7.7.3	NSR	900 mm width X 75 mm depth X 2.0 mm thickness	Each	18	-	-	2,173	39114	
7.8		Supplying and installing following size of Ladder Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-		-			
7.8.1	NSR	450 mm width X 50 mm depth X 2.0 mm thickness	Each	11	-	-	1,636	17996	
7.8.2	NSR	600 mm width X 50 mm depth X 2.0 mm thickness	Each	14	-	-	1,917	26838	

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
7.8.3	NSR	900 mm width X 75 mm depth X 2.0 mm thickness	Each	11	-	-	2,646	29106
7.9		Supplying and installing following size of Ladder Hot Dipped Galvanised Iron cable tray "Cross member" (galvanisation not less than 50 microns) in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-	-	-		
7.9.1	NSR	450 mm width X 50 mm depth X 2.0 mm thickness	Each	2	-	-	2,088	4176
7.9.2	NSR	600 mm width X 50 mm depth X 2.0 mm thickness	Each	1	-	-	2,338	2338
7.9.3	NSR	450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	3	-	-	2,840	8520
7.9.4	NSR	900 mm width X 75 mm depth X 2.0 mm thickness	Each	1	-	-	3,226	3226
7.10		Supplying and installing following size of Ladder Hot Dipped Galvanised Iron cable tray "Reducer" (galvanisation not less than 50 microns) in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.		-	-	-		
7.10.1	NSR	450 mm width X 50 mm depth X 2.0 mm thickness	Each	2	-	-	1,482	2964
7.10.2	NSR	600 mm width X 50 mm depth X 2.0 mm thickness	Each	1	-	-	1,572	1572
7.10.3	NSR	750 mm width X 75 mm depth X 2.0 mm thickness	Each	2	-	-	1,964	3928
7.10.4	NSR	900 mm width X 75 mm depth X 2.0 mm thickness	Each	2	-	-	2,173	4346
7.11	NSR	Raceways & Accessories		-	-	-		
7.11.1	NSR	Supply and installation of single or multi compartment GI raceway of cross section given below laid in floor complete as specified. a) Raceway b) All bends, joints, supports, end plates, couplers earth conductivity.		-	-	-		
7.11.1.1	NSR	100 x 50 Single compartment	Metre	50	-	-	801	40050
7.11.1.2	NSR	50 x 50 Single compartment	Metre	20	-	-	595	11900
7.11.1.2	NSR	100 x 25 Single compartment	Metre	2,600	-	-	800	2080000
7.11.1.2	NSR	150 x 25 Single compartment	Metre	2,000	-	-	900	1800000
7.11.1.2	NSR	200 x 25 Single compartment	Metre	350	-	-	100	35000
7.11.2	NSR	Supply and installation of single or multi compartment GI raceway of cross section given below suspended from ceiling complete as specified. a) Raceway b) All bends, joints, supports, end plates, couplers earth conductivity.		-	-	-		
7.11.2.1	NSR	150 x 75 Single compartment ( with Removable cover)	Metre	1,350	-	-	1,123	1516050
7.11.2.2	NSR	100 x 75 Single compartment ( with Removable cover)	Metre	400	-	-	971	388400
7.11.2.3	NSR	100 x 50 Single compartment ( with Removable cover)	Metre	100	-	-	937	93700
7.11.2.4	NSR	75 x 50 Single compartment ( with Removable cover)	Metre	-	-	-	850	
7.11.2.2	NSR	100 x 25 Single compartment ( with Removable cover)	Metre	1,100	-	-	220	242000
7.11.2.3	NSR	150 x 25 Single compartment ( with Removable cover)	Metre	950	-	-	300	285000
7.11.2.4	NSR	200 x 25 Single compartment ( with Removable cover)	Metre	100	-	-	424	42400
7.12.1	NSR	Supply and installation of single or multi compartment GI junction box of cross section given below with tile cover, laid in floor or above false ceiling complete as specified.		-	-	-		
7.12.1.1	NSR	150 x 150 x 100 mm Junction box with removable cover	Each	10	-	-	493	4930
7.12.1.2	NSR	200 x 200 x 65 mm Junction box with removable cover	Each	330	-	-	424	139920
7.12.1.3	NSR	150 x 150 x 65 mm Junction box with removable cover	Each	30	-	-	300	9000
7.12.1.3	NSR	100 x 100 x 65 mm Junction box with removable cover	Each	45	-	-	220	9900
		<b>Total Carried to Summary</b>		-	-	-	54,91,888	77,53,081
8.0	2	<b>SUBHEAD 8-MCCB, MCB &amp; DB'S</b>		-	-	-		
8.1	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)		-	-	-		
8.1.1	NSR	4 way, Double door	Each	51	800	40,800		
8.1.2	2.3.1	6 way, Double door	Each	22	942	20,724		
8.1.3	2.3.2	8 way, Double door	Each	164	1,061	1,74,428		
8.1.4	2.3.3	12 way, Double door	Each	282	1,151	3,25,042		
8.1.5	2.3.4	16 way, Double door	Each	17	1,364	23,188		
8.2		Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)		-	-	-		
8.2.1	NSR	4 way (8 + 12), Double door	Each	35	-	-	2,926	102410
8.2.2	NSR	6 way (8 + 18), Double door	Each	420	-	-	3,540	1488216
8.2.3	NSR	8 way (8 + 24), Double door	Each	182	-	-	4,185	761670
8.3		Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)		-	-	-		
8.3.1	NSR	4 way (8 + 12), Double door	Each	21	-	-	6,783	142443
8.3.2	NSR	8 way (8 + 24), Double door	Each	1	-	-	8,548	8548
8.3.3	NSR	12 way (8 + 36), Double door	Each	2	-	-	11,399	22798

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE		
					Total for all blocks	Rate	Amount	Rate	Total Amount
8.4	2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.		-		-			
8.4.1	2.10.1	Single pole	Each	16,845	173	29,14,185			
8.4.2	2.10.2	Single pole and neutral	Each	138	445	61,410			
8.4.3	2.10.3	Double pole	Each	466	463	2,15,758			
8.4.4	2.10.4	Triple pole	Each	56	700	39,200			
8.4.5	2.10.5	Triple pole and neutral	Each	85	891	75,735			
8.5	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	114	7	798			
8.6	2.12	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.		-		-			
8.6.1	2.12.1	40 A	Each	85	222	18,870			
8.6.2	2.12.2	63 A	Each	10	254	2,540			
8.7	2.13	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.		-		-			
8.7.1	2.13.1	40 A	Each	176	667	1,17,392			
8.7.2	2.13.2	63 A	Each	19	678	12,882			
8.7.3	2.13.3	100 A	Each	2	859	1,718			
8.8	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		-		-			
8.8.1	2.14.1	25 A	Each	340	1,650	5,61,000			
8.8.2	2.14.2	40 A	Each	236	1,719	4,05,684			
8.8.3	2.14.3	63 A	Each	1	2,242	2,242			
8.9	2.15	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		-		-			
8.9.1	2.15.1	25 A	Each	10	2,096	20,960			
8.9.2	2.15.2	40 A	Each	367	2,131	7,82,077			
8.9.3	2.15.3	63 A	Each	161	2,302	3,70,622			
8.10	NSR	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		-		-			
8.10.1	NSR	25 A	Each	20	-	-	2,464	49280	
8.10.2	NSR	40 A	Each	142	-	-	3,494	496148	
8.10.3	NSR	63 A	Each	4	-	-	4,031	16124	
8.11	NSR	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 300 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.		-		-			
8.11.1	NSR	25 A	Each	5	-	-	3,117	15585	
8.11.2	NSR	40 A	Each	42	-	-	3,558	149436	
8.11.3	NSR	63 A	Each	11	-	-	4,392	48312	
8.12	2.16	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A, 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	Each	5	627	3,135			
8.13	2.17	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 A, 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	each	2	878	1,756			
8.14	2.18	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A, "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	each	5	980	4,900			
8.15	2.19	Supplying and fixing 20 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 A, "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	each	3	1,455	4,365			
8.16	2.20	Supplying and fixing 30 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 A, "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	each	4	2,488	9,952			
8.17	NSR	Supplying and fixing 230V, 16A socket outlet with 16 A, "C" curve, SPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	66	-	-	2,057	135762	
8.18	NSR	Supplying and fixing 230V, 16A socket outlet with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	46	-	-	1,919	88274	
8.19	NSR	Supplying and fixing 230V, 16A Switch with backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	36	-	-	1,919	69084	
8.20	NSR	Supplying and fixing 230V, 25A socket outlet with 16 A, "C" curve, SPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	8	-	-	2,057	16456	
8.21	NSR	Supplying and fixing 230V, 25A socket outlet with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	8	-	-	1,919	15352	
8.22	NSR	Supplying and fixing 230V, 25A Switch with backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	8	-	-	1,919	15352	
8.23	NSR	Supplying and fixing 230V, 32A socket outlet with 16 A, "C" curve, SPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	21	-	-	2,057	43197	
8.24	NSR	Supplying and fixing 230V, 32A socket outlet with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	15	-	-	1,919	28785	
8.25	NSR	Supplying and fixing 230V 32A Switch with backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	15	-	-	1,919	28785	

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE			
					Total for all blocks		Rate	Amount	Rate	Total Amount
8.26	NSR	Supplying and fixing 415V, 16A socket outlet with 32 A, "C" curve, TPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	-	-	-	2,594			
8.27	NSR	Supplying and fixing 415V, 16A socket outlet with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	15	-	-	1,919	28785		
8.28	NSR	Supplying and fixing 415V 16A Switch with backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	15	-	-	1,919	28785		
8.29	NSR	Supplying and fixing 415V, 32A socket outlet with 32 A, "C" curve, TPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	15	-	-	2,594	38910		
8.30	NSR	Supplying and fixing 415V, 32A socket outlet with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	15	-	-	1,919	28785		
8.31	NSR	Supplying and fixing 415V 32A Switch with backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	15	-	-	1,919	28785		
8.32	2.21	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	each	20	149	2,950				
8.33	2.23	Supplying and fixing Cable End Box (Loose wire box)(IP 43) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with testing and commissioning etc. as required.		-		-				
8.33.1	2.23.1	For 4 way, Double door SPN MCBDB	each	350	300	1,05,090				
8.33.1	2.23.1	For 6 way, Double door SPN MCBDB	each	319	382	1,21,973				
8.33.2	2.23.2	For 8 way, Double door SPN MCBDB	each	74	437	32,513				
8.33.3	2.23.3	For 10 way, Double door SPN MCBDB	each	37	424	15,688				
8.33.4	2.23.4	For 14 way, Double door SPN MCBDB	each	11	488	5,368				
8.34	2.24	Supplying and fixing Cable End Box (Loose wire box) (IP 43) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with testing and commissioning etc. as required.		-		-				
8.34.1	2.24.1	For 4 way, Double door TPN MCBDB	each	29	585	16,965				
8.34.2	2.24.2	For 6 way, Double door TPN MCBDB	each	547	610	3,33,548				
8.34.3	2.24.3	For 8 way, Double door TPN MCBDB	each	120	728	87,360				
8.35	2.25	Supplying and fixing Cable End Box (Loose wire box) suitable for triple pole and neutral, sheet steel, Vertical MCB distribution board, 415 V, on surface/ recess, complete with testing and commissioning etc. as required.	Each	24	433	10,392				
8.36	NSR	Supplying and fixing of heavy duty PVC Junction box in shaft complete with connector, incoming & outgoing glands with fixing accessories.		-		-				
8.36.1	NSR	25A junction box	each	500	-	-	1,133	566500		
8.36.2	NSR	40A junction box	each	375	-	-	1,983	743625		
8.36.3	NSR	63A junction box	each	200	-	-	2,517	503400		
8.37	NSR	Supplying and fixing 40 A to 63 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.		-		-				
8.37.1	NSR	Single pole	Each	1,110	-	-	387	429570		
8.37.2	NSR	Single pole and neutral	Each	10	-	-	835	8350		
8.37.3	NSR	Double pole	Each	38	-	-	879	33402		
8.37.4	NSR	Triple pole	Each	6	-	-	1,286	7716		
8.37.5	NSR	Triple pole and neutral	Each	532	-	-	1,637	870884		
8.38	2.2	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreader in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.		-		-				
8.38.1	2.2.1	100A, 16kA, TPMCCB	Each	7	-	-	3,674	25718		
8.38.2	2.2.2	125A, 16kA, TPMCCB	Each	8	-	-	4,117	32936		
8.38.3	2.2.3	150A, 16kA, TPMCCB	Each	4	-	-	5,085	20340		
8.38.4	2.2.5	200A, 25kA, TPMCCB	Each	2	-	-	11,529	23058		
8.23.4	2.2.6	250A, 25kA, TPMCCB	Each	8	-	-	16,000	128000		
8.23.5	2.2.11	630A, 50kA, TPMCCB	Each	4	-	-	24,972	99888		
8.23.6	2.2.12	800A, 50kA, TPMCCB	Each	5	-	-	44,000	220000		
8.1	NSR	Supplying and fixing 230V, 16A socket outlet with 16 A, "C" curve, SPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	5		-	2057	10285		
8.11	NSR	Supplying and fixing 230V, 16A socket outlet with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	5		-	1919	9595		
8.12	NSR	Supplying and fixing 230V, 16A Switch with backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	5		-	1919	9595		
8.13	NSR	Supplying and fixing 230V, 25A socket outlet with 16 A, "C" curve, SPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	5		-	1919	9595		
8.14	NSR	Supplying and fixing 230V, 25A socket outlet with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	8		-	1919	15352		
8.15	NSR	Supplying and fixing 230V, 25A Switch with backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	8		-	1919	15352		
8.16	NSR	Supplying and fixing 415V, 32A socket outlet with 32 A, "C" curve, TPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	10		-	2057	20570		

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
				<b>Total for all blocks</b>				
8.17	NSR	Supplying and fixing 415V, 32A socket outlet with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	10	-	-	1919	19190
8.18	NSR	Supplying and fixing 415V 32A Switch with backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	10	-	-	1919	19190
8.19	NSR	Supplying and fixing 415V, 40A socket outlet with 40 A, "C" curve, TPMCB with plug top, backbox in Thermoplastic IP55 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	5	-	-	2500	12500
8.1	NSR	Supplying and fixing 415V, 63A socket outlet with 63 A, "C" curve, TPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	5	-	-	3000	15000
8.11	NSR	Supplying and fixing 415V, 80A socket outlet with 80 A, "C" curve, TPMCB with plug top, backbox in Thermoplastic IP66 enclosure, on surface or in recess and complete with connections, testing and commissioning etc. as required.	each	4	-	-	3000	12000
8.24	1.22	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.		-	-	-	-	-
8.24.1	1.22.2	100 mm X 100 mm X 60 mm deep	Each	10	-	-	114	1140
8.24.2	1.22.4	150 mm X 150 mm X 60 mm deep	Each	25	-	-	168	4200
8.24.3	1.22.14	200 mm X 300 mm X 100 mm deep	Each	12	-	-	174	2088
8.24.4	1.22.16	250 mm X 300 mm X 100 mm deep	Each	10	-	-	337	3370
		<b>Total Carried to Summary</b>		-	-	-	69,43,210	7788476
9.0		<b>SUBHEAD 9- CONDUIT WIRING &amp; SWITCH SOCKETS</b>		-	-	-	-	-
9.1		<b>WIRING IN STEEL</b>		-	-	-	-	-
9.1.1	1.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper flexible conductor wires in surface / recessed medium class steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.		-	-	-	-	-
9.1.1.1	1.3.1	Group A	Point	13,231	702	92,88,162		
9.1.1.2	1.3.2	Group B	Point	1,813	836	15,15,668		
9.1.1.3	1.3.3	Group C	Point	2,421	1,037	25,10,577		
9.2	1.4	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper flexible conductor wires in surface / recessed medium class steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	585	809	4,73,265		
9.5	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.		-	-	-	-	-
9.5.1	1.7.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Meter	90,100	112	100,91,200		
9.5.2	1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Meter	91,758	137	125,70,846		
9.5.3	1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Meter	67,148	168	112,80,864		
9.5.4	1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Meter	5,355	227	12,15,585		
9.5.5	1.7.5	2 X 10 sq. mm +1 X 6 sq. mm earth wire	Meter	1,850	299	5,53,150		
9.5.6	1.7.6	2 X 16 sq. mm +1 X 6 sq. mm earth wire	Meter	700	408	2,85,600		
9.5.7	1.7.8	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Meter	2,140	281	6,01,340		
9.5.8	1.7.9	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Meter	8,485	395	33,51,575		
9.5.9	1.7.10	4 X 10 sq. mm +2 X 6 sq. mm earth wire	Meter	1,200	536	6,43,200		
9.5.10	1.7.11	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	Meter	1,200	733	8,79,600		
9.8	1.17	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.		-	-	-	-	-
9.8.1	1.17.1	1 x 1.5 sq. mm	Meter	100	23	2,300		
9.8.2	1.17.11	2 x 2.5 sq. mm	Meter	100	53	5,300		
9.8.3	1.17.20	2 x 4 sq. mm	Meter	125	79	9,875		
9.8.4	1.17.29	2 x 6 sq. mm	Meter	125	115	14,375		
9.9	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.		-	-	-	-	-
9.9.1	1.18.1	1 Pair	Meter	100	15	1,500		
9.9.2	1.18.2	2 Pair	Meter	50	19	950		
9.9.3	1.18.3	4 Pair	Meter	50	28	1,400		
9.10	1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Meter	100	29	2,900		
9.11	1.20	Supplying and fixing of following sizes of steel conduit along with 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.		-	-	-	-	-
9.11.1	1.20.1	20 mm	Meter	4,000	126	5,04,000		
9.11.2	1.20.2	25 mm	Meter	1,55,000	147	227,85,000		
9.11.3	1.20.3	32 mm	Meter	17,398	198	34,44,804		
9.11.4	1.20.4	40 mm	Meter	3,500	293	10,25,500		



Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE		
					Total for all blocks	Rate	Amount	Rate	Total Amount
9.12	1.21	Supplying and fixing of following sizes of mediumclass PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.		-		-			
9.12.1	1.21.1	20 mm	Meter	500	57	28,500			
9.12.2	1.21.2	25 mm	Meter	2,500	69	1,72,500			
9.12.3	1.21.3	32 mm	Meter	200	89	17,800			
9.12.4	1.21.4	40 mm	Meter	2,000	114	2,28,000			
9.12.5	1.21.5	50 mm	Meter	500	148	74,000			
9.13	1.22	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.		-		-			
9.13.1	1.22.2	100 mm X 100 mm X 60 mm deep	Each	5	114	570			
9.13.2	1.22.4	150 mm X 150 mm X 60 mm deep	Each	59	168	9,946			
9.13.3	1.22.14	200 mm X 300 mm X 100 mm deep	Each	5	317	1,585			
9.13.4	1.22.16	250 mm X 300 mm X 100 mm deep	Each	5	373	1,865			
9.14	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		-		-			
9.14.1	1.24.1	5/6 A switch	Each	10	84	840			
9.14.2	1.24.2	2 way 5/6 A switch	Each	5	99	495			
9.14.3	1.24.3	15/16 A switch	Each	10	114	1,140			
9.14.4	1.24.4	3 pin 5/6 A socket outlet	Each	2	81	162			
9.14.5	1.24.5	6 pin 15/16 A socket outlet	Each	2	153	306			
9.14.6	1.24.6	Telephone socket outlet	Each	927	96	88,963			
9.14.7	1.24.7	TV antenna socket outlet	Each	738	97	71,567			
9.14.8	1.24.8	Bell push	Each	227	114	25,878			
9.14.9	NSR	20A DP switch	Each	2,000	-	-	106	212000	
9.14.10	NSR	25A DP switch	Each	1,000	-	-	118	118000	
9.14.11	NSR	5 pin 20 A socket outlet	Each	1,000	-	-	93	93000	
9.14.12	NSR	5 pin 25 A socket outlet	Each	1,000	-	-	98	98000	
9.15	1.25	Supplying and fixing <b>two module</b> stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	2,092	288	6,02,496			
9.16	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	1,215	24	29,160			
9.17	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.		-	-	-			
9.17.1	1.27.1	1 or 2 Module (75 mmX75 mm)	Each	8,975	175	15,70,538			
9.17.2	1.27.2	3 Module (100 mmX75 mm)	Each	2	185	370			
9.17.3	1.27.3	4 Module (125 mmX75 mm)	Each	5	205	1,025			
9.17.4	1.27.4	6 Module (200 mmX75 mm)	Each	15	258	3,870			
9.17.5	1.27.5	8 Module (125 mmX125 mm)	Each	10	297	2,970			
9.17.6	1.27.6	12 Module (200 mmX150 mm)	Each	6	344	2,064			
9.18	1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.		-		-			
9.18.1	1.28.1	1 or 2 Module	Each	8,975	83	7,44,884			
9.18.2	1.28.2	3 Module	Each	2	91	182			
9.18.3	1.28.3	4 Module	Each	5	101	505			
9.18.4	1.28.4	6 Module	Each	15	126	1,890			
9.18.5	1.28.5	8 Module	Each	10	151	1,510			
9.18.6	1.28.6	12 Module	Each	6	166	996			
9.19	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	9,120	313	28,54,404			
9.20	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	6,939	406	28,17,396			
9.21	1.33	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	Each	7,887	46	3,62,820			
		Supplying and fixing suitable Modular metal box on surface or in recess including providing and fixing three nos 3 pin 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)	Each	400			824	329600	
		Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing two nos 3 pin 5/6 amps modular socket outlet with shutters and two no. 5/6 Amp modular switch, & two 6 pin 15/16 amp modular socket outlet with shutters and two no 15/16 modular switch, base plate, modular cover plate, connections etc. and all civil works 'complete as required.	Each	220			968	212960	
		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, modular cover plate, connections etc. and all civil works 'complete as required. (For Comb-2/Consultant point)	Each	170			732	124440	
		Supplying and fixing suitable Modular metal box surface or in recess including providing and fixing two nos 3 pin 5/6 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	160			542	86720	
9.22	1.34	Supplying and fixing brass batten/ angle holder including connections etc. as required.	Each	5	75	375			
9.23	1.35	Installation, testing and commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/ LED lamps per fitting, complete with all accessories including connections etc. as required.	Each	9,119	58	5,28,902			

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
9.24	1.36	Supplying and fixing stiff pendent with 300 mm long, 20 mm dia X 1.6 mm thick steel conduit, aluminium cast back plate and brass holder complete, including wiring the down rod with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and painting etc. as required.	Each	20	169	3,380		
9.25	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	110	61	6,710		
9.26	1.39	Providing and fixing plain 16/0.20 mm (0.50 sq.mm) twin flat flexible, FRLS PVC insulated, copper conductor cable, in PVC sleeve of suitable size on the floor/ wall, or side of the table/ door etc. as required.	Meter	100	22	2,200		
9.27	1.40	Providing and fixing plain 16/0.20 mm (0.50 sq.mm) twin circular flexible FRLS PVC insulated, PVC sheathed copper conductor cable direct on the wall with PVC clips etc. as required.	Meter	100	19	1,900		
9.30	1.43	Providing and fixing extra conduit down rod of 20 mm dia, 2 X 10 cm length, wiring with 2 X 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including painting etc. as required. (Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	Each	10	32	320		
9.31	1.44	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	10	105	1,050		
9.32	1.45	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Each	5	132	660		
9.33	1.47	Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	Each	5	22	110		
9.34	1.48	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	Each	5	25	125		
9.35	1.49	Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.	Each	410	28	11,480		
9.36	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.		-		-		
9.37	1.50.1	Upto 450 mm sweep	Each	1,649	224	3,69,331		
9.38	1.50.2	510 mm sweep	Each	3	318	954		
9.39	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	1,649	99	1,63,231		
9.40	1.52	Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc. as required.	Each	400	89	35,600		
9.41	1.53	Supplying and drawing of UTP 4 pair CAT 6A LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.		-		-		
9.41.1	1.53.1	1 run of cable	Meter	200	34	6,800		
9.42	1.54	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.		-		-		
9.42.1	1.54.1	Group A	Point	3,520	317	11,15,682		
9.42.2	1.54.2	Group B	Point	1,452	365	5,30,017		
9.42.3	1.54.3	Group C	Point	821	415	3,40,715		
9.43	NSR	USB Point for Chrging having following specifications: Maximum voltage: 5V, Minimum current: 5A or higher, Same size and faceplate design as guest universal power socket. (Only for power charging function, not for data transferring)	Each	250	-	-	763	190750
9.44	1.56	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlet and 2 Nos. 5/ 6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	Each	5	504	2,520		
9.45	1.57	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 25A modular socket outlet & 25A modular SPMCB, 'C' curve including connection, painting etc as required.	Each	5	533	2,665		
9.46	1.58	Supplying and fixing PVC batten/ angle holder including connections etc. as required.	Each	2,302	62	1,42,724		
9.47	1.59	Dismantling of ceiling fan and painting the same with with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent and replacing the damaged rubber reel, nuts and bolts with washers and safety pins, reinstalling the same as required.	Each	10	133	1,330		
9.48	NSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlet and 1 Nos. 16 A modular switch, connections etc. as required.	Each	2,027	-	-	559	1133093
		<b>Total Carried to Summary</b>		-	-	960,48,512		25,98,563
<b>10.0</b>	<b>15</b>	<b>SUBHEAD 10-LIGHT FIXTURES , FANS &amp; LIGHTING CONTROLS</b>		-	-	-		
10.1		Supply, installation, testing & commissioning of light fixtures complete with: a) All fixing accessories, mounting bracket b) Earthing of fittings c) Flexible cable from JB to fixture		-		-		
10.1.1	NSR	1x16W Wall / Surface mounted LED Tube light Crompton make cat no-DMLN1LT8-16+LTT8-16 Or Equivalent	Each	4,105		-	838	3439822.4
10.1.2	NSR	1x12W Surface mounted LED Downlight Crompton make cat no-LCDSP-LR-12-CDL or Equivalent	Each	4,025		-	995	4005074
10.1.3	NSR	1x16W Wall mounted mirror / Bracket LED light Crompton make cat no-DMLN1LT8-16+LTT8-16 Or Equivalent	Each	2,909		-	838	2437742
10.1.4	NSR	1x36W Recess Square LED Downlight Crompton make cat no-LCTLRN-36-FO-CDL or Equivalent	Each	1,252		-	2,844	3560688
10.1.5	NSR	1x80W Decorative LED light ceiling mounted Crompton make cat no-LCNR-80-CDL or Equivalent	Each	30		-	8,931	267930
10.1.6	NSR	1 x 10W LED Bulk head Light- (IP65) Crompton make cat no-LBHN-10-CDL or Equivalent	Each	649		-	2,110	1369812
10.1.7	NSR	1x40W Surface mounted LED Tube light Crompton make cat no-LCB1-40-CDL or Equivalent	Each	100		-	2,898	290669.4
10.1.8	NSR	1x15W recess mounted LED Downlight Crompton make cat no-LCDE-15-CDL or Equivalent	Each	1,627		-	883	1436641

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
				Total for all blocks				
10.1.9	NSR	1x9W recess mounted LED Downlight Crompton make cat no-LCDE-09-CDL or Equivalent	Each	134	-	-	659	88174.2
10.1.10	NSR	2x36W CFL Clean room fixture recess downlight Crompton make cat no-CRFW12236EB(255) or Equivalent	Each	30	-	-	2,459	73770
10.1.11	NSR	1x18W recess mounted LED Downlight Crompton make cat no-LCDE-18-CDL or Equivalent	Each	135	-	-	1,032	139113.6
10.1.12	NSR	1x40W suspended LED Downlight Crompton make Cat no-LCB1-40-CDL or Equivalent	Each	126	-	-	2,898	364278.6
10.1.13	NSR	LED Strip Light- 20W/M Crompton make Cat no-LST20WW or Equivalent	Each	134	-	-	196	26303.2
10.1.14	NSR	1 x 10 W wall Bracket (Philips LED-1 x 10 W 45617/17 Vase or approved equivalent from list of Makes)(WB)	Each	400	-	-	1,450	580000
10.1.15	NSR	1X40 LED Recess mounted down light fixture (Crompton Greaves Prakhar LCDNR-40-CDL or approved equivalent )	Each	20	-	-	4,750	95000
		1x40W Surface mounted LED light Crompton make cat no-LCTLSN-40-CDL or Equivalent	Each	200	-	-	4,500	900000
10.1.5	NSR	1x24W Recess Square LED Downlight Crompton make cat no-LCTLRN-24-FO-CDL or Equivalent	Each	2,061	-	-	2898	59,72,778
10.1.6	NSR	1x40W Surface mounted LED Tube light Crompton make cat no-LCB1-40-CDL or Equivalent	Each	456	-	-	3000	1368000
10.1.7	NSR	1 x 6W Bed Head LED light Crompton make or Equivalent	Each	55	-	-	1200	66000
10.1.8	NSR	LED Strip Light- 20W/M Crompton make Cat no-LST20WW or Equivalent	Each	100	-	-	196	19,600
10.1.16	NSR	Wall mounted 6' dia Exhaust fan ( Equivalent to Crompton greaves Brisk Air 6' ) with automatic louvers (Fan shall have ISI marking & shall be BEE 5 star rated)	Each	1,508	-	-	1,267	1910382.6
10.1.17	NSR	Wall mounted 10' dia ( Equivalent to Crompton greaves Brisk Air 10' ) with automatic louvers (Fan shall have ISI marking & shall be BEE 5 star rated)	Each	705	-	-	1,480	1043400
10.1.18	NSR	48" Ceiling suspended ISI mark BEE 5 star rated Fan equivalent to Crompton greaves model no HS plus 48' Ivory. (Supply Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	3,215	-	-	2,024	6507160
10.1.19	NSR	36" Ceiling suspended ISI mark BEE 5 star rated Fan equivalent to Crompton greaves model no HS plus 36' Ivory. (Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.)	Each	60	-	-	1,779	106740
10.1.18	NSR	GI Fan Hook with GI box	Each	2,840	-	-	49	139160
10.1.19	NSR	1x9W Surface mounted LED Downlight	Each	1,311	-	-	659	863949
10.4	NSR	Supply Installation testing and commissioning of Bed Head panel frame - TYPE-A1 as per drawing and complete with provision of installing 2 # 6/16 A sockets+Switch, 4 # 6 A socket+switch, RJ11port, RJ485, Medi gas outlet's Holder.complete with mounting accessories as per the layout.	Each	12	-	-	5000	60000
10.2	15.1	Supplying,installation,testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10 A, for mounting height up to 2.8 meter and for 5 meter diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.	Each	110	3,193	3,51,230		
10.3	15.2	Supplying,installation,testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor with day light dimming(lightning level shall be regulated as per availability of natural day light in an area along with occupancy detection.) having high performance, regulating programmable type, suitable for connected load upto 10 A, for mounting height up to 2.8 meter and for 5 meter diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.	Each	90	4,467	4,02,030		
10.4	15.3	Supplying,installation,testing and commissioning of Microwave technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10 A, for mounting height up to 2.6 meter and for 5m X 20m coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.	Each	1	6,100	6,100		
10.5	15.4	Supplying,installation,testing and commissioning of Astronomical time switch of following configuration to be mounted in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.						
10.5.1	15.4.1	1 output per phase and suitable for single phase supply	Each	1	2,566	2,566		
10.5.2	15.4.2	2 output per phase and suitable for single phase supply	Each	1	5,329	5,329		
10.5.3	15.4.3	3 output (1 output per phase) and suitable for three phase supply	Each	1	6,254	6,254		
10.6		Supplying,installation,testing and commissioning of Digital time switch of following configuration to be mounted in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights (Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.						
10.6.1	NSR	1 output per phase and suitable for single phase supply	Each	1	-	-	2,902	2902
10.6.2	NSR	2 output per phase and suitable for single phase supply	Each	1	-	-	7,603	7603
10.07		Supplying,installation,testing and commissioning of 15 A key card switch monobloc with plate 2 M with GI Box complete as required (GH)	Each	1	-	-	3,200	3200
		<b>Total Carried to Summary</b>					<b>7,73,509</b>	<b>371,45,893</b>
11.0	5	<b>SUBHEAD 11-EARTHING</b>						
11		<b>EARTHING</b>						
11.01		Supply and installation of one number earth pit with advance maintenance free Earthing System consisting of one Number, CPRI tested copper bonded steel electrode of minimum 25 mm dia. (as per IE C62561-2 ) With a minimum coating thickness of 250 microns and length of 3 meters, 25 kg/Electrode of earth enhancing compound (tested as per IEC 62561-7) fill the 100mm augered hole surrounding to the electrode , SS Universal Clamp of Size 175X50X3 mm for terminal Connection including Poly Propylene Heavy duty 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	Set	110	-	-	15,000	1650000

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE			
					Total for all blocks		Rate	Amount	Rate	Total Amount
11.02		Supply and installation of one number earth pit with advance maintenance free Earthing System consisting of one Number, CPRI tested copper bonded steel electrode of minimum 19 mm dia (as per IE C62561-2 ) With a minimum. coating thickness of 250 microns and length of 3 meters. 25 kg/Electrode of earth enhancing compound (tested as per IEC-62561-7) fill the 100mm augered hole surrounding to the electrode , SS Universal Clamp of Size 175X50X3 mm for terminal Connection including Poly Propylene Heavy duty 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	Set	34	-	-	13,000	442000		
11.03		Supply and installation of one number earth pit with of advance maintenance free Earthing System consisting of one Number UL Listed CPRI tested copper bonded steel electrode of minimum 13 mm dia. (as per IE C62561-2 ) With a minimum. coating thickness of 250 microns and length of 3 meters. 25 kg/Electrode of earth enhancing compound (tested as per IEC-62561-7) fill the 100mm augered hole surrounding to the electrode , SS Universal Clamp of Size 175X50X3 mm for terminal Connection including Poly Propylene Heavy duty 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	Set	60	-	-	12,000	720000		
11.04		Supply and installation of one number earth pit with of maintenance free earthing system consisting of 1250 mm long copper bonded steel electrode of minimum 13 mm dia. tested as per IEC 62561-2. Minimum copper coating thickness on Rod is 100 microns. 5 kg/Electrode of earth enhancing compound tested as per IEC 62561-7 fill the 75-100mm augered hole surrounding to the electrode. It consist the following Item copper Alloy clamp suitable Poly Propylene Heavy duty 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	Set	44	-	-	3,910	172040		
11.05		Supplying and laying 25mmX5mm GI strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	2,000	-	-	85	170000		
11.06		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	2,400	-	-	129	309600		
11.07		Supplying and laying 50mmX6mm GI strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	3,000	-	-	273	819000		
11.08		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	900	-	-	368	331200		
11.09		Providing and fixing 25mmX5mm Copper strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required.	Metre	700	-	-	698	488600		
11.1		Supplying and laying 25mmX5mm Copper strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	600	-	-	595	357000		
11.11		Supplying and laying 50mmX6mm Copper strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	1,800	-	-	1,500	2700000		
11.12		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	700	-	-	1,400	980000		
11.13		Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required	Metre	1,300	-	-	872	1133600		
11.14		Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	900	-	-	351	315900		
11.15		Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	13,000	-	-	37	481000		
		<b>Total Carried to Summary</b>		-	-	-	-	11069940		
12.0	6	<b>SUBHEAD 12-LIGHTNING PROTECTION SYSTEM</b>		-	-	-	-	-		
12.01		Supply and installation of one number earth pit with advance maintenance free Earthing System consisting of one Number, CPRI tested copper bonded steel electrode of minimum 19 mm dia (as per IE C62561-2 ) With a minimum. coating thickness of 250 microns and length of 3 meters. 25 kg/Electrode of earth enhancing compound (tested as per IEC-62561-7) fill the 100mm augered hole surrounding to the electrode , SS Universal Clamp of Size 175X50X3 mm for terminal Connection including Poly Propylene Heavy duty 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	Set	72	-	-	13,000	936000		
12.02		Providing and fixing of lightening conductor finial, made of 25mm. dia. 300mm., long GI tube, having single prong at top, with 85 mm. dia. 6 mm. thick GI base plate including holes etc. complete as required.	Each	50	-	-	369	18450		
12.03		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	3,500	-	-	68	238000		
12.04		Providing and and fixing GI tape 20mm X 3 mm thick on parapet or surface of wall for lightning conductor as required. (For vertical runs).	Metre	6,500	-	-	98	637000		
12.05		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	72	-	-	71	5112		
12.06		Providing and laying GI tape, 32 mm X 6 mm thick, from test joint upto earth electrode directly in ground as required.	Metre	1,320	-	-	141	186120		
		<b>Total Carried to Summary</b>		-	-	-	-	2020682		
13.0		<b>SUBHEAD 13-EXTERNAL LIGHTING &amp; FEEDER PILLARS</b>		-	-	-	-	-		

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
				<b>Total for all blocks</b>				
13.1		Supply Installation testing & commissioning of light fitting pole complete with lamps, internal wiring from pole junction box, necessary civil foundation, base plate, nut bolts & other fixing accessories etc.		-	-	-	-	
13.1.1	NSR	16Mtr high mast, material of construction as per IS 5986/BSEN 10025. Fabricated in two parts of 8.5meter each with base and top dia 450mm and 150mm approx. respectively, crosssection of mast(number of sides) , 20 sided polygon thickness 4mm & 3mm of bottom section and top section respectively. Base plate dia = 670mmx32mm thick, PCD foundation bolt 590mm, head frame and lantern carriage with 16nos LED light fixture as per Crompton greaves catalogue no LSFO-C300-CDL-60 with 1x300W flood light with minimum lumen /lamp 31,000, including its foundation, all accessories like feeder pillar, double drum winch, SS wire rope, trailing cable L stopper, manual operating handle , motor mounting, lighting arrester, junction box, double dome LED aviation light, wiring of light fixture from junction box, earthing of pole etc including any other item required for the proper functioning of the high mast complete as per technical specification and as required.	Each	1	-	-	6,57,826	657826
13.1.2	NSR	20Mtr high mast, material of construction as per IS 5986/BSEN 10025. Fabricated in two parts of 10.3meter each with base and top dia 450mm and 150mm approx. respectively, crosssection of mast(number of sides) , 20 sided polygon thickness 4mm & 3mm of bottom section and top section respectively. Base plate dia = 670mmx32mm thick, PCD foundation bolt 590mm, head frame and lantern carriage with 16nos LED light fixture as per Crompton greaves catalogue no LSFO-C300-CDL-60 with 1x300W flood light with minimum lumen /lamp 31,000, including its foundation, all accessories like feeder pillar, double drum winch, SS wire rope, trailing cable L stopper, manual operating handle , motor mounting, lighting arrester, junction box, double dome LED aviation light, wiring of light fixture from junction box, earthing of pole etc including any other item required for the proper functioning of the high mast complete as per technical specification and as required.	Each	1	-	-	6,92,357	692357
13.1.3	NSR	4 Mtr High Octagonal tapering hot dip Galvanized decorative Pole with 40W LED streetlight (similar to Cat no crompton greaves LPTO-40-CDL)	Each	60	-	-	11,746	704760
13.1.4	NSR	4 Mtr High circular tapering hot dip Galvanized Pole with 40W streetlight (similar to Cat no crompton greaves LPTO-40-CDL)	Each	80	-	-	11,746	939680
13.1.5	NSR	9 Mtr High circular tapering hot dip Galvanized Pole with 90W streetlight with single arm (similar to Cat no crompton greaves LSTN-90-CDL-A)	Each	190	-	-	24,157	4589830
13.1.6	NSR	6 Mtr High circular tapering hot dip Galvanized Pole with 60W streetlight with single arm (similar to Cat no crompton greaves LSTP-60-CDL)	Each	20	-	-	18,677	373540
13.1.7	NSR	9 Mtr High circular tapering hot dip Galvanized Pole with 90W streetlight with double arm (similar to Cat no crompton greaves LSTN-90-CDL-A)	Each	100	-	-	25,490	2549000
13.1.8	NSR	6 Mtr High circular tapering hot dip Galvanized Pole with 60W streetlight with double arm (similar to Cat no crompton greaves LSTP-60-CDL)	Each	20	-	-	18,677	373540
13.1.9	NSR	Post top lanterns for entry gates (similar to Cat no crompton greaves LPTO-40-CDL/M)	Each	50	-	-	9,727	486350
13.1.10	NSR	Bollard lights 10W 900mm High (similar to Cat no crompton greaves LBSL1-10-CDL)	Each	140	-	-	7,292	1020880
13.1.11	NSR	Bollard lights 10W 600mm High (similar to Cat no crompton greaves LBSL1-10-CDL)	Each	120	-	-	5,800	696000
13.1.12	NSR	2.5 Mtr High circular tapering hot dip Galvanized Pole with 45W streetlight (similar to Cat no crompton greaves LSTP-45-CDL)	Each	32	-	-	10,227	327264
13.2		<b>Feeder Pillars</b>						
		Supply, installation, testing & commissioning of 500V Feeder pillars as specified & shown on drawing with i) Copper busbars together with tapped neutral bar for individual phases. ii) Copper earth strip iii) Interconnections and earthing. iv) Sheet steel enclosure suitable for outdoor application (IP65) mounted on concrete pedestal with hinged lockable doors interlocked with the incomer switch. v) Phase to phase isolation (PPI) in case of 3Ph boards. vi) Fuses, MCBs with holder vii) 15A weather proof outlet with switch. viii) 9W bulk head CFL fitting with weather proof switch. ix) Necessary support frame & painting, labelling, phase indicating lamps with fuses						
13.2.1	NSR	External lighting distribution board consisting of: Incomer: i) 1# 63A TPN MCB + Surge Protection device ii) 1Set of Phase indicating lamps with fuses Outgoing: iii) 8# (25A 4P ELMCB (100mA) + <b>Digital time switch</b> ) iv) 4# (32A 4P ELMCB (100mA) + <b>Digital time switch</b> )	Each	6	-	-	37,926	227556
13.2.2	NSR	External lighting distribution board consisting of: Incomer: i) 1# 50A TPN MCB + Surge Protection device ii) 1Set of Phase indicating lamps with fuses Outgoing: iii) 6# (25A 4P ELMCB (100mA) + <b>Digital time switch</b> ) iv) 2# (32A 4P ELMCB (100mA) + <b>Digital time switch</b> )	Each	1	-	-	35,627	35627
13.2.3	NSR	External Lighting Distribution Board as specified & consisting of : Incomer i) 1# 40A TPN MCB + Surge Protection device ii) 1 set phase indicating lamps with fuses. Outgoing: iii) 3# <b>Digital time switch</b> iv) 6 x 3 # (16A SP MCB)	Each	2	-	-	31,605	63210
		<b>Total Carried to Summary</b>						13737420
14.0		<b>SUBHEAD 14-SAFETY EQUIPMENTS</b>						
14.1	NSR	Supply, providing & fixing the following other miscellaneous items with all Accessories including labour charges etc complete:(ISI Makes only) 2 Fire buckets of 9 Ltrs capacity with floor stand, sand etc.	Each	6	-	-	2,249	13494
14.2	NSR	Supply, providing & fixing the following other miscellaneous items with all Accessories including labour charges etc complete:(ISI Makes only) Rubber mats of 11 KV grade 1.8 Mtrs x 0.9mts. and of 6mm thick	Each	156	-	-	3,849	600444
14.3	NSR	Supply, providing & fixing the following other miscellaneous items with all Accessories including labour charges etc complete:(ISI Makes only) Shock treatment chart with teak wood frame and glass cover as required	Each	14	-	-	1,155	16170
14.4	NSR	Supply of 11KV grade gloves pairs	Each	8	-	-	1,066	8528
14.5	NSR	Supply & installation of 11KV Danger boards	Each	15	-	-	1,112	16680
14.6	NSR	Supply of 1100V grade gloves pairs	Each	15	-	-	889	13335
14.7	NSR	Supply & installation of 415V Danger boards	Each	33	-	-	935	30855

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
				<b>Total for all blocks</b>				
14.8	NSR	Supply, providing & fixing the following other miscellaneous items with all Accessories including labour charges etc complete:(ISI Makes only) Rubber mats of 1.1 KV grade 1.8 Mtrs x 0.9mts. and of 6mm thick	Each	330	-	-	3,019	996270
14.9	NSR	Supply, providing & fixing the following other miscellaneous items with all Accessories including labour charges etc complete:(ISI Makes only) Shock treatment chart with teak wood frame and glass cover as required	Each	38	-	-	1,155	43890
14.10	NSR	Supply, providing & fixing the following other miscellaneous items with all Accessories including labour charges etc complete:(ISI Makes only) Electrical single line Diagram (As Built drawing ) with teakwood frame and glass cover.MR	Each	38	-	-	2,308	87704
14.11	NSR	Supply, providing & fixing the following other miscellaneous items with all Accessories including labour charges etc complete:(ISI Makes only) First Aid Box	Set	36	-	-	1,835	66060
14.12	NSR	Supply, providing & fixing the following other miscellaneous items with all Accessories including labour charges etc complete:(ISI Makes only) Push Button Actuators with Stay put type Start Push Button and Lockable type Mush Room Head type Stop Push Button in a weather Proof IP - 55 enclosure.	Each	2	-	-	3,727	7454
14.13	NSR	Supply , providing & fixing of display unit with integrator to read & display energy consumption of meter	Each	15	-	-	17,126	256890
				-	-	-	-	-
		<b>Total Carried to Summary</b>		-	-	-	-	2157774
15.0		<b>SUBHEAD 15-DATA, TELEPHONE &amp; TV SYSTEM</b>		-	-	-	-	-
				-	-	-	-	-
15.2	NSR	TELEPHONE SYSTEM		-	-	-	-	-
				-	-	-	-	-
15.2.1	1.53.1	Supply, Laying, Testing & commissioning of CAT 6A, 4 pair UTP cable in already laid Raceways/Cable trays/PVC conduits from Rack patch panel to Flat Krone connector & Krone connector upto Telephone outlet.	Metre	35,000	34	11,90,000		
15.2.2	NSR	Supply, Laying, Testing & commissioning of CAT 6A, 24 AWG UTP Stranded Patch Cord - Blue- 1 Meter length	Each	518	-	-	389	201424.2
15.2.3	NSR	Supply, Laying, Testing & commissioning of CAT 6A, 24 AWG UTP Stranded Patch Cord - Blue- 2 Meter length	Each	518	-	-	474	245437.2
15.2.4	NSR	Supply, Installation, Testing & commissioning of CAT 6A, UTP 24 Port, Non shutter, loaded Patch Panel	Each	36	-	-	10,910	397124
15.2.5	NSR	Supply, Laying, Testing & commissioning of Unarmoured, Multi Pair UTP Cat 3 Cable		-	-	-	-	-
15.2.6	NSR	100Pair	Metre	1,150	-	-	731	840650
15.2.7	NSR	50Pair	Metre	500	-	-	422	211000
15.2.8	NSR	Supply, Installation, Testing & commissioning of Main Distribution Frame with hook up wires & all accessories etc.		-	-	-	-	-
15.2.9	NSR	500Pair	Each	2	-	-	35,313	70626
15.2.10	NSR	300Pair	Each	5	-	-	26,348	131740
15.2.11	NSR	100Pair	Each	15	-	-	8,965	134475
15.2.12	NSR	50Pair	Each	6	-	-	6,552	39312
15.2.13	NSR	10Pair	Each	13	-	-	3,865	51791
15.2.9	NSR	Supply, Laying, Testing & commissioning of Unarmoured, Multi Pair UTP Jelly filled Cat 3 Cable		-	-	-	-	-
15.2.9.1	NSR	100Pair	Metre	1,375	-	-	705	969375
15.2.9.2	NSR	50Pair	Metre	775	-	-	418	323950
15.2.9.3	NSR	25Pair	Metre	200	-	-	242	48400
15.2.9.4	NSR	10Pair	Metre	200	-	-	172	34400
				-	-	-	-	-
15.3	NSR	TELEVISION SYSTEM		-	-	-	-	-
				-	-	-	-	-
15.3.1	NSR	Supply, Installation, Testing & commissioning of 8 way Tee- Off in MS Powder coated, 2mm thick junction box	Each	10	-	-	9,991	99910
15.3.2	NSR	Supply, Installation, Testing & commissioning of 6 way Tee- Off in MS Powder coated, 2mm thick junction box	Each	191	-	-	8,905	1700855
15.3.3	NSR	Supply, Installation, Testing & commissioning of 4Way Tee Off in MS Powder coated, 2mm thick junction box	Each	230	-	-	6,580	1513400
15.3.4	NSR	Supply, Installation, Testing & commissioning of 2Way Tee Off in MS Powder coated, 2mm thick junction box	Each	190	-	-	3,879	738561.6
15.3.5	NSR	Supply, Laying, Testing & commissioning of RG - 11 FRLS coaxial cable in already laid FR rigid PVC HMS conduits	Metre	1,939	-	-	44	85316
15.3.6	NSR	Supply, Laying, Testing & commissioning of RG - 6 FRLS coaxial cable in already laid FR rigid PVC HMS conduits	Metre	6,000	-	-	32	192000
				-	-	-	-	-
15.4	NSR	LV ACCESSORIES & POINTS		-	-	-	-	-
				-	-	-	-	-
15.4.1	NSR	Supply, Laying, Testing & commissioning of CAT 6A, 4 pair UTP cable in already laid PVC conduits from flat Krone connector to Telephone outlet	Metre	602	34	20,468		
15.4.2	NSR	Supply, Installation, Testing & commissioning of RJ45 Outlet complete with faceplate & backbox	Each	1,124	-	-	759	852888.3
15.4.3	NSR	Supply, Installation, Testing & commissioning of RJ11 Outlet complete with faceplate & backbox	Each	1,305	-	-	759	990191.4
15.4.4	NSR	Supply, Installation, Testing & commissioning of 5 pair krone connector in MS Powder coated, 2mm thick junction box	Each	229	-	-	3,276	751186.8
15.4.5	NSR	Supply, Installation, Testing & commissioning of 4 way splitter in MS Powder coated, 2mm thick junction box	Each	229	-	-	2,807	643645.1
15.4.6	NSR	Supply, Installation, Testing & commissioning of 6 way splitter in MS Powder coated, 2mm thick junction box	Each	18	-	-	3,531	63558
15.4.7	NSR	Supply and installation of TV outlet box with coaxial terminal.	Each	682	-	-	1,102	751123.2
15.4.8	NSR	Supply, Laying, Testing & commissioning of RG - 6 FRLS coaxial cable in already laid FR rigid PVC HMS conduits	Metre	5,350	-	-	48	256800
15.4.9	NSR	Supply, Laying, Testing & commissioning of 12 Core, Armoured, Outdoor Unitube Single Mode fibre optic cable	meter	1,100	-	-	983	1081300
15.4.10	NSR	Supply, Installation, Testing & commissioning of Adaptor plate with 6 SC simplex Single Mode adaptors	Each	160	-	-	1,963	314080
15.4.11	NSR	Supply, Installation, Testing & commissioning of Outdoor Fibre Cable Joint kit including all accessories suitable for single mode 12 core armoured cable	Each	8	-	-	20,258	162064
				-	-	-	-	-
15.5		Supply, unloading ,Storing , installation, testing and commissioning of the UPS system as per the technical specifications complete with a) Necessary Copper cabling between UPS and batteries / battery breaker etc. b) Necessary control cabling between different units of UPS shall be a part of UPS offer (If required). c) UPS installation cost shall include necessary 600mm MS angle iron for UPS for bottom cable terminations. The angle frame shall be powder coated with shade same as UPS.		-	-	-	-	-
15.5.1	NSR	1 KVA UPS with 2 Volts batteries suitable for 15 Minute backup for full capacity, 1 phase 230 Volts input and 1 phase 230 Volts output including 16 Amp MCB for Incoming and outgoing circuit shall be provided in suitable MS powder coated enclosure box, necessary cabling & accessories etc.	each	13	-	-	35,327	459251
15.5.2	NSR	2 KVA UPS with 2 Volts batteries suitable for 15 Minute backup for full capacity, 1 phase 230 Volts input and 1 phase 230 Volts output including 16 Amp MCB for Incoming and outgoing circuit shall be provided in suitable MS powder coated enclosure box, necessary cabling & accessories etc.	each	1	-	-	64,467	64467
15.5.3	NSR	3 KVA UPS with 2 Volts batteries suitable for 15 Minute backup for full capacity, 1 phase 230 Volts input and 1 phase 230 Volts output including 16 Amp MCB for Incoming and outgoing circuit shall be provided in suitable MS powder coated enclosure box, necessary cabling & accessories etc.	each	1	-	-	1,33,071	133071

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
				<b>Total for all blocks</b>				
15.5.4	NSR	5 KVA UPS with 2 Volts batteries suitable for 15 Minute backup for full capacity, 1 phase 230 Volts input and 1 phase 230 Volts output including 16 Amp MCB for Incoming and outgoing circuit shall be provided in suitable MS powder coated enclosure box, necessary cabling & accessories etc.	each	1	-	-	1,16,424	116424
15.5.2	NSR	15 KVA inverter with 2 Volts batteries suitable for 15 Minute backup for full capacity, 3 phase 415 Volts input and 3 phase 415 Volts output including 40Amp MCCB for Incoming and outgoing circuit shall be provided in suitable MS powder coated enclosure box, necessary cabling & accessories etc.	each	2	-	-	75000	1,50,000
15.5		<b>EPABX SYSTEM</b>						
15.5.1	NSR	Supply, installation, testing & commissioning of Wall Mount DIGITAL EPABX equipped with 100 extensions, 4 incoming P&T lines and ISDN PRI Lines (30B+D), operator console, FCBC48V/ 6AH Batteries with one krone type MDF.	Set	5	-	-	5,00,000	2500000
15.5.2	NSR	Supply, installation, testing & commissioning of DIGITAL KEY Phone	Set	7	-	-	16,870	118090
15.5.3	NSR	Supply, installation, testing & commissioning of Wall Mount DIGITAL EPABX <b>expandible type</b> , equipped with 500 extensions, 4 incoming P&T lines and ISDN PRI Lines (30B+D), operator console, FCBC48V/ 6AH Batteries with one krone type MDF.	Set	1	-	-	1800000	1800000
		<b>ACCESS CONTROL FOR GUEST HOUSE</b>						
15.6		Supply, Installation , Testing and Commissioning of Digital mortise lock with proximity card reader, Mechanical Keys, Pin code with battery back up complete as require.	Nos.	21	-	-	38,812	815052
		Supply , Installation , testing & commissioning of PROXIMITY CARD	Nos.	100	-	-	150	15000
		<b>Total Carried to Summary</b>					<b>12,10,468</b>	<b>200,67,939</b>
16.0		<b>SUBHEAD 16-MISC. WORKS</b>						
16.1		Supply & laying of Hume pipes (NP2) for external lighting / cabling generally as specified. Excavation required as per site condition shall be electrical vendor scope. Excavated soil shall be dumped to designated place as per direction given by project head.						
16.1.1	NSR	600 dia	meter	600	-	-	366	219600
16.1.2	NSR	300 dia	meter	700	-	-	335	234500
16.1.3	NSR	150 dia	meter	400	-	-	284	113600
16.2		Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (450 to 600mm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.						
16.2.1	NSR	200 dia - OD	meter	200	-	-	338	67600
16.2.2	NSR	150 dia - OD	meter	200	-	-	185	37000
16.2.3	NSR	100 dia - OD	meter	200	-	-	155	31000
16.2.4	NSR	50 dia - OD	meter	200	-	-	55	11000
16.3	NSR	Supply, Installation, testing & commissioning of Work station for display & storage of Meter reading data (kwh, P.f, Amp) of each flat (Max no. of flats are 60) complete with all hardwares & necessary softwares etc. for taking data from meters, including protocol Integrator and including all communication cabling from each floor metres till panel room work station	Set	6	-	-	53,313	319878
		<b>Total Carried to Summary</b>						<b>10,34,178</b>
17.0		<b>SUBHEAD 17-FIRE ALARM</b>						
17		<b>FIRE ALARM &amp; PUBLIC ADDRESS SYSTEM</b>						
17.1	NSR	<b>Fire Alarm Panels</b>						
17.1.1	NSR	Networkable Microprocessor based multiloop capacity, Networkable analogue addressable type fire alarm control panel with 640 character LCD display / Touch Screen Display. The panel should be equipped with 12 loop with 15% Spare capacity in each loop. The panel shall be capable of taking atleast 200 analog addressable devices in one loop in any combination quantities of the Detectors and Devices. Four access levels, flash EPROM sufficient numbers of programmable relay controls for controlling AHUs, pressurization fans, ventilation fans at fire pump room, monitoring of fire sprinkler and fire hydrant pump, 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working and then be capable of operating the system for 2 hours during an emergency conditions as required. (UL / EN Approved)	Each	1	-	-	800000	800000
17.1.2	NSR	Active Repeater Panel	Each	1	-	-	75000	75000
17.1.4	NSR	Third Party BMS / Scada Integration S/w on modbus over IP	Set	1	-	-	20000	20000
17.2	NSR	<b>Detector Hardware</b>						
17.2.1	NSR	Supply, installation, testing and commissioning of signal initiating devices complete with galvanised steel, back box etc. complete as specified and as required.						
17.2.1.1	NSR	Addressable Manual call point	Each	35	-	-	3800	133000
17.2.1.2	NSR	Addressable Control modules for Elevator with 230 V,2A relay where required	Each	20	-	-	3800	76000
17.2.1.3	NSR	Automatic Analog addressable Photoelectric smoke detector with mounting Base. The Detector's Alarm LED shall be viewable from 360 Degree , The Detector 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 / EN Approved)	Each	546	-	-	3050	16,65,300
		Automatic Analog addressable Photo - Thermal multicriteria detector with mounting Base, alarm LED. The Detector shall have automatic Electronic/ dip switch addressing feature , complete with the GI Mounting Box and the hardware etc. as required. (UL Approved)	Each	546	-	-	3000	1638000
17.6.1.5	NSR	<b>Addressable Type Duct Smoke Detector for AHU return duct.</b>	Each	57	-	-	4200	239400
17.6.1.6	NSR	Response Indicator	Each	546	-	-	230	125580
		<b>CONTROL MODULES</b>						
		Supply, installing, testing and commissioning of addressable and automatic commandable control modules.	Nos.	20	-	-	3650	73,000
		<b>MONITOR MODULES</b>						
		Supply, Installation, testing and commissioning of Addressable Monitor modules.	Nos.	20	-	-	3392	67,840
17.6.1.7	NSR	Supply, installation & testing of strobe (110 cd output) & 6W hooters 85 dBA @ 3 m @ lowest setting complete with matching transformer control module etc.	Each	35	-	-	6440	225400
17.6.1.8	NSR	Analogue Addressable Input / Output module with IP66 casing	Each	124	-	-	1500	186000
17.3	NSR	<b>Public Address System</b>						
17.3.1	NSR	Supply, Installation, Testing & Commissioning of Speakers complete with Galvanised Steel Back box.						

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
17.3.1.1	NSR	6W Wall Mounted Speaker	Each	920	-	-	1250	1150000
				-	-	-	-	-
17.3.2	NSR	Supply and installation of audio amplifiers incorporated as part of FACP		-	-	-	-	-
17.3.2.1	NSR	360 W power amplifier	Each	12	-	-	40000	480000
17.3.2.2	NSR	240 W power amplifier	Each	6	-	-	26500	159000
17.3.2.3	NSR	180 W power amplifier	Each	1	-	-	20000	20000
17.3.2.4	NSR	120 W power amplifier	Each	1	-	-	16300	16300
17.3.2.5	NSR	60 W mixing amplifier with microphone	Each	1	-	-	15300	15300
17.3.2.4		Supply, installation, testing & Commissioning of Voice Alarm Controller with Router having features like announcement to 12 zones expandable up to 60 zones, built in 240W Power Amplifier, input port of emergency microphone on the front panel, 16 priority levels including emergency, music to selected zones can be played, upto 255 messages can be stored in the internal 16MB flash ROM, individual BGM volume control for each zone, Digital pre-recorded messages can be merged complete as required.	Each	1	-	-	245600	245600
17.3.2.5.		Supply, installation, testing & Commissioning of Plena voice Alarm Call Station having gooseneck condenser Microphone with 12 zone Selection Keys and an All-Call-Key, PTT Switch, selectable gain, speech filter and limiter for improved intelligibility, LED indication for zone selection complete as required	Each	1	-	-	44000	44000
17.4	NSR	Telephone Jack	Each	-	-	-	-	-
17.4.1	NSR	Microprocessor based telephone controller with battery back up and charger with CALLER ID FACILITY OF FOLLOWING ZONE	Each	1	-	-	50000	50000
17.4.1.2	NSR	Fireman's (Roaming) Telephone portable handset with electronics in enclosures	Each	4	-	-	2000	8000
17.8.1.1	NSR	Fire fighting telephone jack in galvanised steel back box	Each	35	-	-	3232	113120
17.9	NSR	Wiring & Cabling		-	-	-	-	-
17.9.1	NSR	Supply, Installation, Testing & Commissioning wiring for signal initiating devices, control modules, monitor modules units hooters, speakers using 2# 1 pair 1.0 sqmm shielded copper multistrand, twisted pairs PVC armoured cable having fire retardant low smoke ( FRLS) insulation	Rm	20,000	-	-	109	2180000
17.9.2	NSR	Supply, Installation, Testing & Commissioning Point wiring for Telephone jack with 2C 1.0 sqmm copper, multistrand, twisted pairs, PVC wires having fire retardant low smoke (FRLS) insulation	Rm	500	-	-	70	35000
17.9.3	NSR	Supply, Installation, Testing & Commissioning of wiring for strobe with 4C 1.0 sqmm. copper multistrand, twisted pairs, PVC wires having fire retardant low smoke (FRLS) insulation.	Rm	500	-	-	77	38500
17.9.4	NSR	Supply, Installation, Testing & Commissioning of 25mm dia M.S conduit inclusive of bends, Junction boxes etc and saddling as required.	Rm	10,000	147	14,70,000	-	-
		<b>CONVENTIONAL (MICROPROCESSOR BASED SYSTEM)</b>		-	-	-	-	-
17.1		Supply, Installation, Testing & Commissioning of Main fire alarm panel of 16 Zone microcontroller based with its own fire detection zone interface card for initiating and indicating devices, power supply & Battery Charger. with LED for fault / isolate / fire alarm condition, short, open condition The batteries shall be sufficient for 30 Mins. in alarm Condition and 48 Mins. in normal condition.	Nos.	6	-	-	45,000	270000
17.02		Supply, installation, testing & commissioning of MANUAL CALL POINT complete with UPVC box duly painted in red colour including connections etc.	Nos.	200	-	-	500	100000
17.03		Supply, Installation, testing & commissioning of Hooter Cum Speaker with 24 volt circuit complete as required	Nos.	200	-	-	500	100000
17.04	NSR	Supply, Installation, Testing & Commissioning wiring for signal initiating devices, control modules, monitor modules units hooters, speakers using 2# 1 pair 1.0 sqmm shielded copper multistrand, twisted pairs PVC armoured cable having fire retardant low smoke ( FRLS) insulation	Rm	1,000	-	-	66	66000
17.05	NSR	Supply, Installation, Testing & Commissioning of 25mm dia M.S conduit inclusive of bends, Junction boxes etc and saddling as required.	Rm	1,000	-	-	126	126000
		<b>Total Carried to Summary</b>		-	-	14,70,000	-	105,41,340
<b>18</b>		<b>SUBHEAD 18-LIFT</b>		-	-	-	-	-
		<b>NSR PASSENGER LIFT</b>		-	-	-	-	-
		Design, manufacture, supply, loading at site including transportation upto site, unloading & storing at site, handling, installing, testing & commissioning including obtaining statutory approvals / operating license for the following elevators at site as per specifications		-	-	-	-	-
18.01	NSR	884 Kg, 13 Pax, 1.5 mps PE-1 TO PE-2 (G+12) as per Schedule of Requirement	Each	6	-	-	26,30,307	15781842
18.02	NSR	680 Kg, 10 Pax, 1.5 mps PE-1 TO PE-2 (G+5) as per Schedule of Requirement	Each	2	-	-	23,30,392	4660784
18.03	NSR	884 Kg, 13 Pax, 1.5 mps PE-1 TO PE-2 (G+13) as per Schedule of Requirement	Each	4	-	-	26,87,134	10748536
18.4	NSR	884 Kg, 13 Pax, 1.5 mps PE-1 TO PE-2 (G+11) as per Schedule of Requirement	Each	2	-	-	25,73,478	5146956
18.5	NSR	884 Kg, 10 Pax, 1.5 mps PE-1 TO PE-2 (G+8) as per Schedule of Requirement	Each	4	-	-	19,89,158	7956632
18.6	NSR	884 Kg, 10 Pax, 1.5 mps PE-1 TO PE-2 (G+2) as per Schedule of Requirement	Each	2	-	-	14,28,759	2857518
18.7	NSR	884 Kg, 10 Pax, 1.5 mps PE-1 TO PE-2 (G+5) as per Schedule of Requirement	Each	4	-	-	16,91,039	6764156



Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
					Total for all blocks			
		OPD						
18.8	NSR	1768 Kg, 26 Pax, 1 mps PE-1 TO PE-3	Each	3			3000000	9000000
		as per Schedule of Requirement						
	NSR	<b>SERVICE ELEVATOR</b>						
18.09	NSR	2000 Kg, 0.5 mps SE-1	Each	1			2500000	2500000
		as per Schedule of Requirement						
		<b>Total Carried to Summary</b>						<b>654,16,424.00</b>
19		<b>SUBHEAD 19-Nurse Call System</b>						
		Nurse call system shall have products certified/ approval by VDE 0834/ UL.						
19.01	NSR	Supply, Installation, Testing & Commissioning of System Switch:	nos.	2			36245	72490
		The system switch forms a decentralised communications node for exchanging data between the connected system devices and the rest of the communications system, consisting of : - 1 x RJ45 socket, 100Mb IP Port (IEEE802.3 100BaseTX), galvanically isolated conforming to EN 60950 and VDE 0834; - 7 x RJ45 sockets, each for a 100Mb IP system port (IEEE802.3 100BaseTX) for connecting all IP capable system modules; - 1 x RJ45 socket, 100Mb IP Port (IEEE802.3 100BaseTX) for connecting communications, staff and ward terminals as well as control panel PCs or for redundant Connection. - Control LEDs for indicating the current operating state; - 2 x RJ45 sockets for connection of the external data bus;						
19.02	NSR	Supply, Installation, Testing & Commissioning of Nurse Station Terminal: Nurse Station shall comprises of 5.6" LC colour graphic display for displaying all details , a smash proof glass panel (to protect the sensitive display from unnecessary contact during cleaning and other processes) , 12 interactive function keys for operating the system, Querying receiver for speaking discretely, Microphone and loudspeaker for hands-free speech (incl. volume control), automatic changeover between hands-free and discrete speaking , Electronic circuit board with controller and FlashProm, 100BaseTX interface to the system switch, PC interface to the communications control panel , 2.8m connection cable with an RJ45 connection plug, which is protected, from disconnection, for connecting to a connection module . The ward terminal shall display date and time, indication of all presence, all set reminders, indication of all calls in accordance with VDE0834. All call indications follow the priority and must display the exact location of the calls. The ward terminal shall be provided along with suitable connection module & back box	nos.	4			75511	302044
19.03	NSR	Supply, Installation, Testing & Commissioning of Patient Handset - Without Speech consisting of a plastic case in antimicrobial finish having - Call button with nurse symbol with integrated finder and reassurance light on the top end of the unit, - Membrane keypad in antimicrobial finish with integrated LEDs for operation, consisting of: - 1 call key, - 2 lighting keys - 2.80 metre connection cable with auto-disconnecting RJ45 connector plug. It shall be supplied with cradle for holding patient terminals.	nos.	40			7228	289120
19.04		Supply, Installation, Testing & Commissioning of connection module for Patient Terminal Connection module for patient handset shall consist of: - 1 x RJ45 socket marked in colour and with measures to ensure that the push button is correctly connected, including auto disconnect mechanism, - 1 membrane keypad with: - 1 call button (red with nurse symbol) including a finder/reassurance light, - 1 presence key/cancel button (green) including a control LED	nos.	40			7249	289960
19.05	NSR	Supply, Installation, Testing & Commissioning of Call - Cancel Button - For common WC A membrane keypad with: - 1 call button (red) including a finder light & reassurance light, - 1 presence button (green) incl. control LED, - Moisture Protected - 2 RJ45 port for connecting to the data bus	nos.	5			4530	22650
19.06	NSR	Supply, Installation, Testing & Commissioning of Code Blue button - Doctor call-Cancel 1 doctor call key (blue) including a finder light / reassurance light, - Doctor cancel button - a membrane keypad - Integrated sounder	Nos.	3			5537	16611
19.07	NSR	Supply, Installation, Testing & Commissioning of Loop Powered Lamp Module For optical indication of calls, presences and reminders in the relevant colours conforming to 2 of 3 03-06-2017 VDE0834 consisting of: - 5 light chambers with light reflectors for homogeneous illumination, - 1 light chamber fitted with 3 ultra bright red LEDs, - 1 light chamber fitted with 3 ultra bright white LEDs, - 1 light chamber fitted with 3 ultra bright green LEDs, - 1 light chamber fitted with 3 ultra bright blue LEDs, - 1 light chamber fitted with 3 ultra bright Yellow LEDs, - 2 RJ45 ports for loop connectivity	Nos.	4			5537	22148
		Networking & Integration with IPBX						
19.08	NSR	Supply, Installation, Testing & Commissioning of Management center - Nurse Call Server Management Centre Server for Nurse Call System for uploading the firmware and the system configuration, for operating interfaces to foreign systems, for logging of all system events and as a central location for system configuration and remote maintenance as per VDE 0834 - Intel Xeon 3220 2,4GHz or similar - 2 GB RAM, 1 x 160GB HDD - 1 x DVD harddrive, 2 x Gbit LAN Ethernet RJ45 - 1 x serial connection RS232 and 2 x USBV2.0 - 1 x PCI or 1 x PICe socket, support for SUSE Linux enterprise Server from V10.1	No.	1			140000	140000
19.09	NSR	Supply, Installation, Testing & Commissioning of Backbone Switch	No.	1			42286	42286

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
		Floor Switch: Uplink connections: 2 x 1Gb uplink ports, RJ45 (GBIC capable, possibility for LWL) Connections downlink: 24 x 100Mb downlink ports, RJ45 Switch must have all the Layer 2 and Layer 3 function which is mentioned in the tender Document						
				Total for all blocks				
19.10	NSR	Software- Event Database Software	No	1			90600	90600
		Software pack installed on the system server for automatically logging all events in the entire communications system, such as, e.g., calls, presence markings, call acknowledgements, reminders.						
		Cable, Conduit & accessories						
19.11	NSR	8 core CAT6 UTP cable with necessary connectors	Rm	500			35	17500
19.12	NSR	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						
		25 mm dia	Rm	400	147	58,800		
		<b>Total Carried to Summary</b>				58,800		13,05,409
20		<b>SUBHEAD 20- BMS SYSTEM</b>						
20.01		<b>BUILDING MANAGEMENT SYSTEM:</b>						
A)		<b>Supply, installation, testing, commissioning &amp; handing over of the following :</b>						
1.0		<b>BMS Computer System:</b> server grade Pentium i5 Core with 3GHz minimum CPU speed, minimum of 2 GB RAM, 512 KB cache, 52X32X52X DVD/CD-RW Drive & 260GB HDD, optical Mouse, 106 keys keyboard, 10/100 Mbps Ethernet card ,USB connection & internal modem, 42" colour graphics TFT monitor & Original Windows7 loaded.	Set	1			1,32,000.00	132000
2.0		<b>BMS System Software :</b> Web Based Graphical Software meeting the requirements in the Given I/O Summary & technical specifications including configuration and facility to create / provide the graphic mapping for all I/O Summary points, animate the Graphics, Navigation between pages, display of logs, changing the time zones, popup alarms, configurable password protection for Building Mgmt System as per Specifications. Software shall be able to communicate with Bacnet, Modbus devices simultaneously, with unlimited user license capacity. This includes the programming / commissioning software also. BMS software shall support SQL database. This software shall be capable of sending EMAIL/SMS alerts to predefined numbers. <b>Energy Management suit</b> for integrating the energy meters as mentioed in IO summary. The EMS shall be capable of generaign various trends, graphs and producing at least 10 reports.	Lot	1			7,90,000.00	790000
3.0		<b>Soft Integrators:</b> for integration of various third subsystems. These integrators shall support the open protocols like Modbus, BACNet, and others. They should have all required RS485, RS232, Ethernet ports inbuilt. Each subsystem shall have its dedicated set of soft integrators and multiple subsystems of same kind only shall be looped in single soft integrator. Integrator quantity shall be decided based on the number of equipments and number of points for each equipment as mentioed in IO summary.						
a		For Chiller Plant Manager (BACNet MS/TP/ BACNet IP)	Set	1			72,000.00	72000
b		For Cooling tower VFD (Modbus- MS/TP)	Set	1			72,000.00	72000
c		For AHU VFD (Modbus- MS/TP)	Set	1			1,44,000.00	144000
d		For lifts and Escalators (Modbus- MS/TP)	Set	1			72,000.00	72000
e		For Energy Meters (Modbus- MS/TP)	Set	1			72,000.00	72000
f		For VAV Boxes (Modbus- MS/TP)	Set	1			11,52,000.00	1152000
g		For Fire Alarm Panel (BACNet/Modbus as required in site)	Set	1			72,000.00	72000
5.0		UL listed, BTL certified web based, IP enabled DDC Controllers with inbuilt webserver, with I/O module, to meet the IO summary listed, The controllers shall be minimum 32 bit microprocessor based standalone working on TCP/IP on BACnet IP with integral web browser, calender fundion complete with day, month, week, year etc, real time clock & 1 second scan time. The DDC's shall be capable of peer to peer communication without help of communication controller / router / system interface controller / PC. These DDCs shall have required LAN ports to communicate with other DDCs and the software on BACNet-IP only. The DDCs shall be supplied with locable mounting cabinets duly powder coated connector strip, internal wiring and space to house controller & relays, connector strip step down transformer, MCB, internal wiring and other accessories as required. (Contractor shall confirm his I/O provision w.r.t requirement on basis of data point). If DDCs work on 24V supply then the power supply unit (SMPS) must be UL listed. Each DDC shall have 25% spares from the IO summary.						
a		DDC for Chiller plant as per IO summary with 25% spares	Set	1			87,000.00	87000
b		DDC for AHU as per IO summary with spares as mentioed in IO summary (Max 2 AHUs in one DDC)	Set	25			1,32,000.00	3300000
c		DDC for TFA as per IO summary with spares as mentioed in IO summary (Max 2 AHUs in one DDC)	Set	7			1,32,000.00	924000
d		DDCs for FANs as mentioed in IO summary with 25% spares ( Not more than 5 Fans in one DDC)	Lot	9			87,000.00	783000
e		DDCs for Fire Fighting as mentioed in IO summary with 25% spares	Lot	1			1,64,000.00	164000
f		DDCs for Water Supply as mentioed in IO summary with 25% spares	Lot	1			2,72,000.00	272000
g		DDCs for HT panel as mentioed in IO summary with 25% spares	Lot	1			1,41,000.00	141000
h		DDCs for LT panel as mentioed in IO summary with 25% spares	Lot	1			2,97,000.00	297000
		<b>Total for 'A'</b>						
B)		<b>Field Devices</b>						
		<b>Supply, installation, testing, commissioning of necessary Input sensor transmitters/transducers comprising the following:</b>						
1.0		Immersion Temp Sensor for CHW line with brass thermowell. Measuring range: -30 to 110 Deg C, Accuracy: +/- 1.3 Deg C	Nos.	1			4,931.00	4931
2.0		Outside Temp & Humidity Sensor with radiation shield. Measuring Range: Temp:-30 to 50 Deg C & RH 0-100%, Accuracy: +/- 1 DegC +/- 3%	Nos.	1			19,034.00	19034
3.0		Water Differential pressure switch. Trigger Range:150-1000mbar with 1A (resistive) @ 240V AC contact rating	Nos.	24			22,200.00	532800
4.0		Water Pressure Sensor . Accuracy:+/-0.3% FSL	Nos.	7			27,500.00	192500
5.0		Duct type temperature sensor Measuring range: -30 to 110 Deg C, Accuracy: +/- 1.3 Deg C	Nos.	14			2,300.00	32200
6.0		Duct mounted Temp & Humidity Sensor with radiation shield. Measuring Range: Temp:-30 to 50 Deg C & RH 0-100%, Accuracy: +/- 1 DegC +/- 3%	Nos.	50			24,700.00	1235000
7.0		Air static pressure Sensor in AHU ducts	Nos.	50			26,200.00	1310000
8.0		CO2 sensor Duct mount type Measuring range: 0 to 2000 ppm	Nos.	50			22,700.00	1135000
9.0		Wall mounted Ambient CO2 sensor		1			45,500.00	45500
10.0		Differential pressure switch for filters & Blowers	Nos.	173			4,272.00	739056
11.0		Level Switches (Hi/Low)	Nos.	4			7,500.00	30000
12.0		Flame proof level transmitter	Nos.	3			44,000.00	132000
13.0		BTU meters (200Nb)	Nos.	1			1,61,000.00	161000
		<b>Total 'B'</b>						
C)		<b>Conduiting , Wiring and cabling</b>						
1.0		<b>Supply, installation, testing and commissioning of following cables:</b>						

Sl. No.	Item no. (DSR-16)	Description of Item	Unit	Quantity	DSR 16 (Rs.)		MARKET RATE	
					Rate	Amount	Rate	Total Amount
				<b>Total for all blocks</b>				
1.1		2 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, shielded cable.	RM	2,500	-	-	68	170000
1.2		3 Core 1.5 Sqmm, unarmoured ATC conductor multistranded, cable for Powering DDC , Actuators.	RM	300	-	-	50	15000
1.3		Cat-6 networking cable	RM	1,000	-	-	58	58000
1.4		Supplying and laying of following sizes of MS conduit on surface/recess including cutting/filling chases along with conduit accessories etc. complete as required.		-	-	-	-	-
a)		25 mm dia	RM	3,000	147	4,41,000		
b)		20mm dia	RM	500	126	63,000		
				-	-	-	-	-
				-	-	-	-	-
		<b>Total Carried to Summary</b>		-	-	5,04,000		14358021
				-	-	-	-	-
21		<b>SUBHEAD 21 -CCTV SURVEILLANCE SYSTEMS</b>		-	-	-	-	-
21.01	NSR	Supply, installation, testing & commissioning of <b>Indoor dome type</b> , 1/3-inch CCD,Progressive scanning,ONVIF conformant, Quad Stream, Dynamic Range 60 db,Sensitivity color 0.30 lux,nightsense 0.12 lux at 30 IRE, (10-bit processing), MOTION+ video motion analysis , 2.8 to 10 mm IR Corrected lensHardware enhanced,IP Series of high-performance, vandal-resistant - exceeding IK 10,IVA,PoE (Power over-Ethernet), 24 VAC and 12 VDC,IP 66,SNR > 50 dB,-20 °C to +50 °C,UL Listed,ONVIF conformant, ISCSL compatible	Nos.	65	-	-	48900	3178500
21.02	NSR	Supply, installation, testing & commissioning of <b>Outoodr dome type</b> , 1/3-inch CCD,Progressive scanning,ONVIF conformant, Quad Stream, Dynamic Range 60 db,Sensitivity color 0.30 lux,nightsense 0.12 lux at 30 IRE, (10-bit processing), MOTION+ video motion analysis , 2.8 to 10 mm IR Corrected lensHardware enhanced,IP Series of high-performance, vandal-resistant - exceeding IK 10,IVA,PoE (Power over-Ethernet), 24 VAC and 12 VDC,IP 66,SNR > 50 dB,-20 °C to +50 °C,UL Listed,ONVIF conformant, ISCSL compatible	Nos.	10	-	-	50000	500000
21.02	NSR	SITC of <b>Indoor box type</b> , 1/3-inch color CCD, progressive scan, 540 TVL, Quad Streaming: Dual H.264 and M-JPEG simultaneously, 4CIF resolution, Auto lens detection ,compatible with digital video recorder, PoE (Power-over-Ethernet), 24 VAC and 12 VDC ,UL Listed,ONVIF conformant with IP 66 weather proof housing and 2.8 to 10 mm/5 to 50mm Lens, Inbuilt video analytics at edge	Nos.	10	-	-	59000	590000
21.03	NSR	SITC of <b>outdoor box type</b> , 1/3-inch color CCD, progressive scan, 540 TVL, QuadStreaming: Dual H.264 and M-JPEG simultaneously, 4CIF resolution, Auto lens detection,compatible with digital video recorder, PoE (Power-over-Ethernet), 24 VAC and 12 VDC,UL Listed,ONVIF conformant with IP 66 weather proof housing and 2.8 to 10 mm/5 to 50mm Lens, Inbuilt video analytics at edge	Nos.	8	-	-	52890	423120
21.04	NSR	Supply, installation, testing & commissioning of GI Pole, 50mm dia, 3m high with 2 coats of reoxide primer and 3 coats of external colour as per Architects recommendation, complete with mounting accessoires as required for the pole as well as the cameras, suitable to mount the outdoor cameras to the directions of the consultant.	Nos.	4	-	-	18900	75600
21.05	NSR	Supply, installation, testing & commissioning of The <b>Digital Video Storage Array</b> with total capacity of 16 TB hard disk drives with RAID-5 protection,hot swappable hard drives,Dual Gigabit network interface ports. Two (2) redundant power supplies,Utilizes Microsoft Windows Storage Server 2008,S. The storage array shall provide an audible alarm to notify the user in the event of a failure. The system should be such that the video recording should be done directly on storage array without the use of NVR/DNR	Nos	1	-	-	55900	55900
21.06		Supply, installation, testing & commissioning of <b>IP Video software</b> expandable upto 128 license.Should Support Dual Monitor ,Support IVA, Motion and Forensic search,Playback and Live viewing in single application.Should be windows based Operating System.Live video Should be directly from camera ,Favorites,Camera Sequences.Multi-screen grid selection (1, 2X2, 3X3 and 4X4),Playback shuttle control console with trick mode replay and video scratching,Task panels for snapshots (BMP, JPG or PNG format).	Nos	1	-	-	725000	725000
21.07		Supply, installation, testing & commissioning of 32" inches 500 TVL high resolution LED monitor with suitable workstation as required.	Nos	10	-	-	38000	380000
21.08		Layer 3 networking POE switch with mininum of 16 ports for camera connections to server for all cameras complete with jacks,joints, or any other networking accessory required to complete the job.	Nos	10	-	-	39290	392900
21.09		Supply, laying and termination of 3Cx1.5 sq.mm PVC insulated copper conductor flexible unarmoured cable in existng conduits/raceway/cable tray for camera power.	meter	2,000	-	-	52	104000
21.1		Supply, laying and termination of CAT6A cable in existing conduits/raceway/cable tray for both video and control.	meter	5,000	-	-	24	120000
				-	-	-	-	-
		<b>Total Carried to Summary</b>		-	-	-	-	6545020
				-	-	-	-	-

**SUMMARY OF BOQ OF ELECTRICAL WORKS FOR CONSTRUCTION OF RESIDENTIAL COMPLEX & OPD BLOCK AT AIIMS-KALYANI**

Sl. No.	SUB HEADS	DSR 16 Amount (Rs)	Market Amount(Rs)
1.0	SUBHEAD 1 - SUBSTATION (HT PANELS, TRANSFORMERS & PSS )	-	446,14,761
2.0	SUBHEAD 2 - D.G. SETS		306,25,000
3.0	SUBHEAD 3-HT CABLING & SUBSTATION AUXILLARIES	7,70,200	191,64,285
4.0	SUBHEAD 4- MAIN LT . CAPACTIOR & MV PANELS	-	679,13,356
5.0	SUBHEAD 5- BUS DUCTING & RISING MAIN	-	113,54,204
6.0	SUBHEAD 6-MV CABLING & CABLE TERMINATION	97,88,210	267,57,664
7.0	SUBHEAD 7-CABLE TRAYS & RACEWAYS	54,91,888	77,53,081
8.0	SUBHEAD 8-MCCB, MCB & DB'S	69,43,210	77,88,476
9.0	SUBHEAD 9- CONDUIT WIRING & SWITCH SOCKETS	960,48,512	25,98,563
10.0	SUBHEAD 10-LIGHT FIXTURES , FANS & LIGHTING CONTROLS	7,73,509	371,45,893
11.0	SUBHEAD 11-EARTHING	-	110,69,940
12.0	SUBHEAD 12-LIGHTNING PROTECTION SYSTEM	-	20,20,682
13.0	SUBHEAD 13-EXTERNAL LIGHTING & FEEDER PILLAR	-	137,37,420
14.0	SUBHEAD 14-SAFETY EQUIPMENTS	-	21,57,774
15.0	SUBHEAD 15-DATA, TELEPHONE & TV SYSTEM	12,10,468	200,67,939
16.0	SUBHEAD 16-MISC. WORKS	-	10,34,178
17.0	SUBHEAD 17-FIRE ALARM	14,70,000	105,41,340
18.0	SUBHEAD 18-LIFT	-	654,16,424
19.0	SUBHEAD 19-Nurse Call System	58,800	13,05,409
20.0	SUBHEAD 20- BMS SYSTEM	5,04,000	143,58,021
21.0	SUBHEAD 21 -CCTV SURVEILLANCE SYSTEMS	-	65,45,020
	<b>TOTAL</b>	<b>1230,58,798</b>	<b>4039,69,430</b>
	DSR BASED ITEM(RS)	1230,58,798	
	Total	1230,58,798	
	MARKET BASED ITEM(RS)	4039,69,430	
	<b>GRAND TOTAL (RS)</b>	<b>5270,28,228.00</b>	

Name of Work: Construction of Residential Complex and OPD Block at AIIMS KALYANI-Fire Fighting BOQ								
Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
		<b>Note: Based on the tender drawing the agency has to prepare the internal &amp; external fire fighting shop drawing and obtain the approval of the same before start of work</b>						
1.00		<b>FIRE FIGHTING SYSTEM</b>						
1.01	18.72	Providing and laying S&S Centrifugally Cast (Spun) / <b>Ductile Iron Pipes</b> conforming to IS : 8329 :						
a	18.72.15	100 mm dia Ductile Iron Double Flanged pipe- class K-9	Metre	1000	958.95		9,58,950.00	-
b	18.72.16	150 mm dia Ductile Iron Double Flanged pipe- class K-9	Metre	2850	1,438.35		40,99,297.50	-
c	18.72.17	200 mm dia Ductile Iron Double Flanged pipe- class K-9	Metre	250	1,978.85		4,94,712.50	-
							-	-
1.02	18.68	Providing and laying <b>D.I. specials</b> of class K-12 suitable for push -on jointing (Flange Joint) as per IS : 9523					-	-
a	18.68.1	Upto 600 mm dia	Quintal	63	15,394.40		9,69,847.20	-
							-	-
1.03	18.69	Providing and laying <b>D.I. specials</b> of class K-12 suitable for Mechanical joint(Flange Joint) as per IS : 9523					-	-
a	18.69.1	Upto 600 mm dia	Quintal	7	16,207.00		1,13,449.00	-
							-	-
1.04	18.70	Providing push on - joints to centrifugially (spun) <b>Ductile Iron Pipes</b> including testing of joints and the cost of rubber gasket etc complete in all respect.					-	-
a	18.70.1	100 mm dia pipes	Joints	431	65.10		28,058.10	-
b	18.70.2	150 mm dia pipes	Joints	1222	102.35		1,25,071.70	-
c	18.70.3	200 mm dia pipes	Joints	108	154.30		16,664.40	-
							-	-
1.05	18.73	Providing and laying Double Flanged(Screwed/Welded ) Centrifugally(Spun) <b>Ductile Iron pipes</b> of Class K-9 conforming to IS:8329					-	-
a	18.73.1	100 mm dia pipes	Joints	23	1,377.45		31,681.35	-
b	18.73.2	150 mm dia pipes	Joints	62	2,067.10		1,28,160.20	-
							-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
1.06	2.10	Excavating trenches of required width for pipes, cables etc including <b>excavation</b> for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5m including getting out the excavated soil, and then returning the soil as required, inlayers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed within a lead of 50 m					-	-
a	2.10.1.2	Pipes, cables etc exceeding 80 mm dia but not exceeding 300 mm dia	Metre	4100	225.45		9,24,345.00	-
1.07		Providing, fixing jointing and testing of <b>Heavy (class -C) G.I. pipes</b> as per relevant IS :1239/4736 with special accessories like tees, elbow, gasket, flanges, flanged joints, rubber insertion nuts and bolts including earth work excavation and trenching, wrapping pipekot 4mm thick 500mm width tar based plymaric corrosion protection tape or equivalent suitable to GI/ MS pipe line including applying uniform coat of cold pipekot primer complete 1 m below the ground level, refilling in layers not exceeding 20 cm in depth consolidated each deposited layer by ramming & watering complete in all respect as per IS : 1022 ( <b>Under ground</b> )					-	-
a)	NS	150 mm dia G.I. Pipe with flange joints (5.4 mm wall thickness)	Metre	850		2524	-	21,45,400.00
b)	NS	100 mm dia G.I. Pipe with flange joints	Metre	191		1800	-	3,43,800.00
c)	NS	80 mm dia G.I. Pipe with flange joints	Metre	400		1363	-	5,45,200.00
							-	-
1.08	NS	<b>Heavy class G.I. pipes</b> conforming to IS with accessories like tees, elbows, flanged joints, rubber insertion, nuts, bolts or welded joints including fixing the pipe with suitable flat iron strip clamps/brackets, structural members, dash fastener , cutting hole and chases in walls, floor, R.C.C. slab etc. and making good the same, including painting pipes and fittings with a primer coat of steel primer and two coats of postal red enamel paint etc. complete as required. (All the fitting i.e. tee /elbow, Valve shall be joint the pumps will flanged joints)					-	-
a)	NS	300 mm dia (with Flanged joints) IS: 3589 thick 6.35 mm	Metre	20		2329	-	46,580.00
c)	NS	200 mm dia (with Flanged joints) IS: 3589 thick 6 mm	Metre	100		1595	-	1,59,500.00
b)	NS	150 mm dia (with Flanged joints) IS: 1239 thick 5.4 mm	Metre	3150		2218	-	69,86,700.00
c)	NS	100 mm dia (with Flanged joints)	Metre	1155		1511	-	17,45,205.00
d)	NS	80 mm dia	Metre	1050		1064	-	11,17,200.00
e)	NS	65 mm dia	Metre	574		871	-	4,99,954.00
f)	NS	50 mm dia	Metre	624		691	-	4,31,184.00
g)	NS	40 mm dia	Metre	515		541	-	2,78,615.00
h)	NS	32 mm dia	Metre	760		456	-	3,46,560.00
i)	NS	25 mm dia	Metre	8950		353	-	31,59,350.00
							-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
1.09	NS	Providing & fixing fire authority approved <b>Alluminium shutter</b> (size 1200 (L) x 2100 (H) mm ), The shutter size shall be as per approved drawing capable of accommodating fire hose reel, fire hydrant, hose pipe, fittings & accessories. The box shall have a single or double glazed front glass door (with 4 mm thick glass) with lock & key arrangement & shall be painted with Fire red as per IS:5, shade no. 536 complete in all respects. (For Internal Hydrant) (Excluding the cost of alluminium work which will be paid as per civil work items)	Each	309		4520	-	13,96,680.00
							-	-
1.10		Supplying and Fixing <b>First Aid Hose Reel</b> , wall mounting swinging type complete with drum & bracket of MS construction, spray painted in Post office Red, confirming to IS 884/1995 with upto date amendments, complete with the following as required.					-	-
		36 Meter long 20 mm dia water hose Thermoplastic (Textile reinforced) Type - 2 as per IS : 12585					-	-
		20 mm dia gun metal ball valve & nozzle.					-	-
		Drum and brackets for fixing the equipments on wall.					-	-
	NS	Connection from riser with stop valve (gun metal) & M.S. Pipe	Each	309		10388	-	32,09,892.00
							-	-
1.11	NS	Supplying and Fixing of <b>Fire Man's axe</b> with heavy insulated rubber as per standard conforming to IS 926	Each	309		3153	-	9,74,277.00
							-	-
1.12		Fabricating, Supplying, Installation, Testing and Commissioning <b>Air Vessel</b> of continuous welded construction with flanged discharge header on the top of each riser fabricated out of 10 mm thick dished ends and 8 mm thick MS sheet, Air Release Valve complete with suitable drain arrangement with 25 mm dia gun metal wheel valve complete with all accessories etc. as required of the following sizes					-	-
a)	NS	1.2 Metre high and 250 mm dia	Each	20		25418	-	5,08,360.00
							-	-
1.13	NS	Providing and fixing 25mm dia. Gunmetal <b>Air Release valve</b> , single acting including the cost of 25mm gate valve, Pressure gauge, all pipes and fittings as per standard design complete in all respects.	Each	45		5551	-	2,49,795.00
							-	-
1.14	NS	Providing and fixing <b>Hose Cabinet for External Hydrant</b> Stand post type of size (750 x 600 mm x 300 mm) fabricated from 2 mm thick SS sheet having openable glazed door shutter with 4mm thick glass suitable to accommodate hydrants, 2 Nos. canvas hose pipe bearing ISI mark Under IS:639-992 type B ( not less then 30 Meter length) and branch pipe including necessary locking arrangements, painting inside and external part shall be natural polished in matt finish including SS 304 angle stand and PCC foundation 1:2:4 complete with locking arrangement and inbuilt key box.	Each	102		12977	-	13,23,654.00
							-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
1.15	NS	Supply, Installation, Testing and Commissioning <b>External Yard Hydrant Stand Post</b> comprising of GI pipe 80 mm dia (heavy duty C class) from existing ringmain to about 1 meter above ground level and Single Headed Yard Hydrant Valve with 80 mm dia flanged inlet, instantaneous gunmetal coupling of 63 mm dia with cast iron wheel ISI marked, conforming to IS : 5290 (Type A), with ABS cap and chain etc.complete with all accessories as required.	Each	102		6232	-	6,35,664.00
1.16	NS	Providing and fixing <b>Single headed hydrants</b> flanged inlet with 63 mm female instantaneous outlet of gunmetal/SS complete with male blank caps, chains conforming to IS:5290 type A with stainless steel orifice plate (if required) to keep the pressure not more than 3.5 kg/sq.cm at any point.	Each	411		5135	-	21,10,485.00
							-	-
1.17	NS	Providing and fixing <b>Gunmetal/SS branch pipe</b> with 20mm dia nozzle conforming to IS:903. suitable for installation connections to hose coupling etc. as required.	Each	411		1851	-	7,60,761.00
							-	-
1.18	NS	Providing 63mm dia 15 m long reinforced <b>Rubber lined hose pipe conforming</b> to IS: 636-1992 Part-II with gunmetal/SS male & female coupling wire wound with pipe as required.	Each	822		10694	-	87,90,468.00
							-	-
1.19	NS	Supply, erection, testing & commissioning of <b>Exit Glow Sign Board</b> of size 200mm x 350 mm wall mounting signage consisting of photo luminescent coating, non radioactive on acrylic cover					-	-
a)		Single sided luminescent exit glow sign board	Each	145		957	-	1,38,765.00
b)		Double sided luminescent exit glow sign board	Each	145		2459	-	3,56,555.00
							-	-
1.20	NS	Supply, Installation, Testing and Commissioning of 100 mm dia Bourden type, Stainless Steel dial type <b>Pressure Gauge</b> including brass isolation valve and siphon pipe having calibration of 0 - 16 Kg / cm <sup>2</sup> .	Each	345		2154	-	7,43,130.00
1.21	18.34	Constructing <b>Masonry chamber</b> 90x90x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement: 4 fine sand) for sluice valve, with C.I. surface box 100mm top diameter, 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.					-	-
	18.34.1	with F.P.S. bricks	Each	26		11,842.75	3,07,911.50	-
							-	-



Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
1.22		Providing and fixing <b>C.I. sluice valves (With cap)</b> of approved quality complete with bolts, nuts, rubber insertions etc. ( the tail pieces if required will be paid separately ) Class II					-	-
a)	18.31.4.2	200 mm dia	Each	6	11,316.05		67,896.30	-
b)	18.31.3.2	150 mm dia	Each	16	5,387.20		86,195.20	-
c)	18.31.1.2	100mm dia	Each	10	3,689.75		36,897.50	-
							-	-
1.23		Providing and fixing cast iron body IS: 210 FG 200 and double flange gear simple operation type <b>Butterfly valve</b> conforming to IS: 13095 with SS304 disc and shaft NITNLE rubber replaceable seat of the following size complete with bolts, nuts, washers and rubber insertions as per specification.					-	-
a)	NS	300 mm dia(Gear operated)	Each	4		15500	-	62,000.00
a)	NS	250 mm dia(Gear operated)	Each	6		12500	-	75,000.00
a)	NS	200 mm dia	Each	6		9856	-	59,136.00
b)	NS	150 mm dia	Each	95		5176	-	4,91,720.00
c)	NS	100 mm dia	Each	20		3302	-	66,040.00
d)	NS	80 mm dia	Each	91		2965	-	2,69,815.00
							-	-
1.24		Providing and fixing C.I. double flanged horizontal/vertical type <b>check valve NRV</b> including nuts, bolts, rubber insertions as required conforming to IS:5312					-	-
a)	NS	200 mm dia	Each	4		22243.48	-	88,973.92
b)	NS	150 mm dia	Each	37		16567	-	6,12,979.00
b)	NS	100 mm dia	Each	14		9062	-	1,26,868.00
c)	NS	80 mm dia	Each	12		6470	-	77,640.00
							-	-
1.25	NS	Providing and fixing of C.I. <b>'Y' type strainer</b> flanged with SS 304 perforated screen including nuts, bolts and rubber insertions etc					-	-
a)	NS	300mm dia	Each	2		21500	-	43,000.00
b)	NS	200mm dia	Each	4		15000	-	60,000.00
c)	NS	150 mm dia	Each	19		11760	-	2,23,440.00
d)	NS	100 mm dia	Each	3		6464	-	19,392.00
e)	NS	80 mm dia	Each	4		4307	-	17,228.00
							-	-
1.26	NS	Providing and fixing of <b>Foot valve</b> complete with including M.S. flange nuts, bolts, washers, gaskets insertions etc.					-	-
a)	NS	150 mm dia	Each	7		40720	-	2,85,040.00
b)	NS	200 mm dia	Each	4		45500	-	1,82,000.00
b)	NS	300 mm dia	Each	5		59513	-	2,97,565.00
							-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
1.27	NS	Supplying, testing, installation & commissioning of <b>Pressure switches</b> for pumps including necessary wiring upto the control panel.	Each	65		7839	-	5,09,535.00
							-	-
1.28	NS	Supplying and Fixing vane type <b>Waterflow switch</b> with contacts suitable for installation on 50 mm to 150 mm dia pipeline for a service pressure upto 20 Kg/sq.cm.	Each	54		18473	-	9,97,542.00
							-	-
1.29	NS	Providing & Fixing of gun metal <b>Two way fire brigade inlet</b> to riser with 63 mm dia instantaneous type inlet and 150 mm dia flanges outlet conforming to IS:904 with blank cap and chain complete with nuts, bolts, flanges and complete in all respect along with 150 mm dia butterfly valve and 150 mm dia dual plate type NRV. Cost shall include a wall mounted box of M.S. construction (16 SWG) with glass door (4.0 mm thick) to house the above mentioned component. (Location : For Hydrant Riser, outside every block)	Each	21		20649	-	4,33,629.00
							-	-
1.30	NS	Providing and fixing stainless steel <b>Four way fire brigade inlet connection to UG fire tank</b> with 4 Nos. 63 mm dia instantaneous type inlet and 150 mm dia flanges outlet conforming to IS:904 with blank cap and chain including 150 mm dia butterfly valve (PN 16 rating) complete with nuts, bolts, flanges and complete in all respect. Cost shall include a wall mounted box of SS construction 2mm thick with glass door (4.0 mm thick) of adequate size (approx 0.6 m x 0.6 m x 0.45 m) to house the above mentioned component.	Each	2		24207	-	48,414.00
							-	-
1.31	NS	Providing and fixing stainless steel <b>four way fire brigade inlet connection to main discharge header in fire pump room</b> with 4 Nos. 63 mm dia instantaneous type inlet and 150 mm dia flanges outlet conforming to IS:904 with blank cap and chain including 150 mm dia butterfly valve (PN 16 rating) and 150 mm dia wafer type non-return valve complete with nuts, bolts, flanges and complete in all respect. Cost shall include a wall mounted box of M.S. construction 2mm thick with glass door (4.0 mm thick) of adequate size (approx 0.6 m x 0.6 m x 0.45 m) to house the above mentioned component.	Each	2		24207	-	48,414.00
							-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
1.32	NS	Providing and fixing 150 mm dia gun metal fire brigade suction hose coupling of (SS draw off connection) with 150 mm dia M.S. 'C' Class suction pipe with 150 mm dia C.I. foot valve. Cost shall include a wall mounted box of SS. construction 2mm of adequate size with glass door (4.0 mm thick) to house the above mentioned component to be connected to static water tank.	Each	2		7119	-	14,238.00
							-	-
1.33	NS	Providing and fixing Set of "Siamese" quadraplet instantaneous fire brigade connections comprising of two gunmetal instantaneous male inlet coupling 63mm dia with plug and cap, chain bends, tees etc for inlet to the static tank.	Each	2		9254	-	18,508.00
							-	-
1.34	18.48	Providing and placing on <b>Terrace Polyethylene Water Storage Tank</b> ISI : 12701 MARKED indicating the BIS license No with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Ltrs.	260000	7.25		18,85,000.00	-
							-	-
1.35	NS	Providing, Fixing, Testing and Commissioning of <b>Sprinkler Installation Control Valve</b> of Cast iron body and brass / bronze working parts comprising of water motor, alarm, bronze seat clapper and clapper arm, hydraulically driven mechanical gong bell to sound continuous alarm when the Sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc. of size 200/150 mm dia, as required.	Each	1		74374	-	74,374.00
1.36	NS	Providing and fixing <b>Sand Bucket with Stand (6 Bucket)</b> as per site conditions	Each	17		2621	-	44,557.00
							-	-
1.37		Providing & fixing of IS marked (IS:15683) portable fire extinguisher, <b>carbondioxide type</b> flat base including valve, discharge hose of not less than 10 mm dia. 1 M long & complete in all respects including initial fill with CO2 gas confirming to IS:15222 filled to a filling ratio of not more than 0.667 and wall suspension bracket-					-	-
a)	NS	Capacity 4.5 Kg	Each	130		6251	-	8,12,630.00
							-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
1.38		Providing and fixing <b>Modular type ceiling mounted clean</b> agent (FE-36) Hexaflouropropane type fire extinguisher, ISI Marked IS 15683:2006, Gas listed under EPA SNAP, having sprinkler with glass bulb rated at 68 deg.C, CE MARKed Valve, suitable for Class A,B and C type of fires, conforming to ISO 14520, FM approved and UL listed.- For Electrical, UPS, Server, Battery Rooms etc.					-	-
a)	NS	Capacity 10 Kg - One in each Electrical Room	Each	21		46416	-	9,74,736.00
							-	-
1.39	NS	6 Kg. <b>ABC MAP-90% Powder type</b> fire extinguishers are manufactured and marked to Indian standard IS: 15683. Hose shall made of EPDM Rubber, CE Marked Valve, Suitable first aid appliance for fighting fires in Class A, B & C fire that is wood, textile, flammable liquids & gases.	Each	130		3126	-	4,06,380.00
							-	-
1.40	NS	<b>K (Kitchen) type 6 Ltr. Stored Pressure type Fire Extinguisher</b> , with UGTS Pressure Gauge, Deep Drawn, Stainless Steel Body, EPDM Rubber Hose with SS Nozzle, CE Mark Valve with Safety Release Provision, Helium Leak Detection Tested, Controllable discharge mechanism applicable on Class K (Kitchen) Fire, maintenance, care and refilling as per IS 2190:2010	Each	17		19280	-	3,27,760.00
							-	-
1.41	NS	Providing & fixing of IS marked (IS: 13386-1992) <b>Mechanical foam type</b> fire extinguishers 50 kg consisting of welded M.S. trolley mounted cylindrical body, squeeze lever discharge valve fitted with pressure discharge hose, discharge nozzle, trolley etc. finished externally with red enamel paint and fixed to wall with brackets complete with internal charges - For DG Set, Substation area	Each	10		10711	-	1,07,110.00
							-	-
1.42	NS	Providing and fixing 9 liters capacity fire extinguisher <b>Water type Gas pressure</b> conforming to IS marking, fixed to wall.	Each	330		1950	-	6,43,500.00
							-	-
							-	-
1.43	NS	Providing and fixing complete <b>CO2 flooding system</b> of approved make and model for main <b>LT panel</b> including two nos. 22 kg seamless cylinder required quantity of MS seamless pipe, manifold, NRV, high pressure flexible hose, weighing arrangement, pneumatic valve, CO2 nozzles including painting and MS support.The size of main LT panel will be as per Electrical scope of work. The shop drawing/datasheet of CO2 flooding system shall be provided by Agency for approval of HSCC before start of the work. The CO2 flooding panel shall also meet out the local Fire Officers latest requirement and anything extra or any modification required by Fire Officer shall be carried out by Agency without any extra cost.	Each	3		2,74,529.00	-	8,23,587.00

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
							-	-
1.44	NS	Providing and fixing complete CO2 flooding system of approved make and model for main <b>HT panel</b> including two nos. 45 kg seamless cylinder required quantity of MS seamless pipe, manifold, NRV, high pressure flexible hose, weighing arrangement, pneumatic valve, CO2 nozzles including painting and MS support. The size of main HT panel will be as per Electrical scope of work. The shop drawing/datasheet of CO2 flooding system shall be provided by Agency for approval of HSCC before start of the work. The CO2 flooding panel shall also meet out the local Fire Officers latest requirement and anything extra or any modification required by Fire Officer shall be carried out by Agency without any extra cost.	Each	3		2,84,971.00	-	8,54,913.00
							-	-
1.45		<b>Suppression System</b>					-	-
(i)		S/F 10 LB capacity NOVEC 1230 DLP Assembly with Automatic valve, push in connector for tube, 5 LB NOVEC 1230 gas, mounting bracket, end of line adpoter and low pressure switch for monitoring system activation of automatic linear pneumatic tube detection system complete etc. as reqd as one job make: Fire Trex /Seimens / UTC	JOB	45		1,45,672.00	-	65,55,240.00
							-	-
(ii)		S/F 2.5 LB capacity NOVEC 1230 DLP Assembly with Automatic valve, push in connector for tube, 2.5 LB NOVEC 1230 gas, mounting bracket, end of line adpoter and low pressure switch for monitoring system activation of automatic linear pneumatic tube detection system, complete etc. as reqd as one job make: Fire Trex /Seimens / UTC	JOB	75		76,142.00	-	57,10,650.00
							-	-
(iii)		S/F linear pneumatic heat detection tube and suppression system operated on 92-100 deg, Cent temp. With all necessary fittings and supports, fixing in the existing electrical panel board, complete etc as required at site . Make: FireTraco/Srevo System/Fire System/Fire TEC	MTR	2030		1,782.00	-	36,17,460.00
							-	-
(iv)		S/F audio visual alarm system for automatic linear fire trace tube detection system, complete etc as required at site	Each	130		2,882.00	-	3,74,660.00
							-	-
1.46		Supplying, Installation, Testing & Commissioning modular construction master control <b>annunciation panel</b> for sprinkler with provision for requider No. of Zone (30% additional spares),eachsprinkler hydrant will have atleast 4 zone on each floor as approved by engineer.The panel shall have but not limited to the following arrangment.					-	-
							-	-
a)		Indication of Zone sprinkler					-	-
b)		Indication of zone fault					-	-
c)		Fire/fault hooter					-	-
d)		Alarm cancel for fire/fault					-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
e)		Battery for emergency back up of 4 Hrs.	Set	1		95000	-	95,000.00
							-	-
1.47	NS	Providing and fixing <b>SS flexible sprinkler drop unbraided 20 mm NB</b> UL listed having a working pressure of 12 kg/sq.cm complete with GI nipple, sprinkler fixing adaptor and fixing clamps complete as per Manufacturer's catalogue and decorative 65 mm dia CP brass/SS flange for fixing sprinkler below false ceiling					-	-
a)	NS	20mm NBx700 mm long	Each	750		750	-	5,62,500.00
b)	NS	20mm NBx1000 mm long	Each	550		848	-	4,66,400.00
c)	NS	20mm NBx1200 mm long	Each	450		946	-	4,25,700.00
d)	NS	20mm NBx1500 mm long	Each	350		1044	-	3,65,400.00
							-	-
1.48		Providing and Fixing 15 mm dia gunmetal / brass quartzoid type <b>Sprinkler Head</b> with quartz bulb and set to operate at specified temperature.					-	-
a)	NS	<b>Pendent / Upright</b> type, 68 C, Chrome plated With cp cover	Each	6600		427	-	28,18,200.00
							-	-
b)	NS	<b>Side wall extended</b> throw 20 mm dia 68 C, Chrome plated	Each	600		516	-	3,09,600.00
							-	-
							-	-
1.46		Fabricating, Supplying, Installation, Testing and Commissioning <b>Air Vessel</b> of continuous welded construction with flanged discharge header in pump house fabricated out of 10 mm thick dished ends and 8 mm thick MS sheet, Air Release Valve, complete with drain arrangement with 25 mm dia gun metal wheel valve complete with all accessories etc. as required of the following sizes					-	-
a)	NS	2 Metre high and 450 mm dia suitable to operate Jockey Pump, Main Fire Pump & Diesel Engine Driven Fire Pump	Each	3		40525	-	1,21,575.00
							-	-
							-	-
1.47	NS	Providing and fixing of 150mm dia <b>deluge valve</b> of cast iron body and brass/bronze working parts comprising of water motor, alarm, bronze seat clapper and clapper alarm, pressure gauges, emergency releases, pressure switch cock valve complete with drain valve, ball valve, flanges, gasket etc.	Each	16		27500.00	-	4,40,000.00
							-	-
1.48	NS	Providing and fixing heavy duty floating flange <b>EPDM rubber expansion joint</b> with unit control(tie rod & gusset plate) as per manufactures specifications of standard length complete with all accessories and a working pressure not less than 16 kg/sqcm including rubber gaskets, flanges, nuts, bolts & washers complete as required.					-	-
a)	NS	65 mm dia	No.	3		6250	-	18,750.00
b)	NS	100 mm dia	No.	3		8640	-	25,920.00
c)	NS	150 mm dia	No.	8		10500	-	84,000.00

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
d)	NS	200mm dia	No.	3		11770	-	35,310.00
							-	-
1.49		Providing & fixing <b>Puddle Flanged</b> including 40 cm long GI pipe piece welded / threaded with MS plates 450x450x6mm thick with both end screwed / flanged					-	-
a)	NS	For 50 mm dia pipe	Each	8		452	-	3,616.00
b)	NS	For 100 mm dia pipe	Each	7		735	-	5,145.00
c)	NS	For 80 mm dia pipe	Each	7		962	-	6,734.00
d)	NS	for 150 mm dia pipe	Each	24		1851	-	44,424.00
e)	NS	for 200 mm dia pipe	Each	6		3870	-	23,220.00
e)	NS	for 300 mm dia pipe	Each	4		4500	-	18,000.00
							-	-
1.53		Supplying, installing, testing and commissioning of <b>Electric Driven Fire Pump</b> suitable for automatic operation consisting of the following (as per CPWD specification Part V-1985 for Fire Fighting and its amendments) (For Hydrant system & Sprinkler system).					-	-
							-	-
a)		Fire pump <b>(A) Factory Assembled (factory fitted)</b> with stainless steel impeller, CI casing, SS shaft & mechanical seal shall be horizontal split casing centrifugal suction type multistage having following capacity and head so as to ensure a minimum pressure of 3.0 kg per square cm. at the highest and farthest out let at the specified flow complete with necessary strainer / foot valve suction side and pressure gauge on the delivery side including by pass arrangement for periodical testing of the working of the pumping set as required. The pump shall be provided with mechanical seals. <b>(B) The Pump Set shall be Inspected at factory before dispatched and tested as design head the testing &amp; inspected charges will bound by agency)</b>					-	-
							-	-
b)		Squirrel cage type TEFC motor suitable for operation on 415V, 10%, 3 phases 50 Hz. system of suitable HP for the above pump with synchronous speed of 1500 RPM and flexible coupling. The pump motor should conform to IS: 325-1978.					-	-
							-	-
c)		Common bed plate fabricated from mild steel channel or cast iron type.					-	-
							-	-
d)		Suitable cement concrete pump foundation & vibration damping arrangement with cushy foot mounting as required.					-	-
							-	-
(i)	NS	<b>Capacity 2280 LPM and Head 110 Metres</b>	Each	1		710016	-	7,10,016.00
(ii)	NS	<b>Capacity 2280 LPM and Head 90 Metres</b>	Each	2		650560	-	13,01,120.00
							-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
1.50		Supplying, installing, testing and commissioning of <b>Diesel Engine Driven Fire Pump</b> suitable for automatic operation consisting of the following (as per CPWD specifications PartV 1985.) (For Hydrant system & Sprinkler system).					-	-
a)		Horizontal centrifugal type multi-stage, fire pump <b>(A) Factory Assembled (factory fitted)</b> with stainless steel impeller CI casing, SS shaft & mechanical seal complete of following capacity and Head so as to ensure a minimum pressure of 3.0 kg per sq.cm. at the highest & farthest outlet at the specified flow, complete with necessary strainer pressure gauge on the delivery side etc. including by pass arrangement for periodical testing of the working of the pump set as required. The pump shall be provided with mechanical seals. <b>(B) The Pump Set shall be Inspected at factory before dispatched and tested as design head the testing &amp; inspected charges will bound by agency)</b>					-	-
b)		Water cooled cold starting type multi cylinder 4 stroke diesel engine, developing suitable BHP at 1500 RPM for the above pump set with automatic starting mechanism, cooling system shall be with radial cool engine, maintenance free batteries, battery charge unit, flexible coupling with the pump, common bed plate for mounting diesel engine fuel day tank fuel piping and pump and vibration damping arrangement by cushy foot mounting as required complete in all respects.					-	-
c)		The engine shall be capable to drive the pump at 150% rated discharge at 65% head and shall be suitable for 10% overload capacity for one hour in any period of 12 hrs. continuous run.					-	-
d)		Common bed plate fabricated from mild steel channel or cast iron type.					-	-
e)		Isolation Valve					-	-
f)		Suitable cement concrete pump foundation & vibration damping arrangement with cushy foot mounting as required.					-	-
(i)	NS	<b>Capacity 2280 LPM and Head 110 Metres</b>	Each	1		950500	-	9,50,500.00
(i)	NS	<b>Capacity 2280 LPM and Head 90 Metres</b>	Each	1		810196.00	-	8,10,196.00
1.51		Supplying, installation, testing and periodic commissioning of <b>Electric Motor Driven Automatic Pressurization Pump</b> set consisting of the following (as per specification) (For Hydrant system & Sprinkler system).					-	-



Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
a)		Centrifugal pump of specified capacity capable of building up pressure lost in any leakage in the system against atotal head (mentioned as under) complete with C.I. casing stainless steel impellor ; mechanical seal & S.S. shaft necessary strainer, pressure gauge on delivery side etc. including by-pass arrangement for testing of the working of the pumping set as required .					-	-
b)		Squirrel cage A.C. induction motor suitable for operation on 415 V, 10% 3 phase 50 Hz. A.C. supply and of minimum 7.5 HP,2900 RPM, for the above pump with flexible coupling as per specification and conforming to IS: 325/1978 and shall be TEFC type only.					-	-
c)		Common bed plate fabricated from mild steel channel or cast iron type.					-	-
d)		Suitable cement concrete pump foundation with vibration damping arrangement with cushy foot or similar mounting as per required.					-	-
(i)	NS	<b>180 LPM &amp; Head - 110 Metres( including the cost of panel)</b>	Each	1		130500	-	1,30,500.00
(i)	NS	<b>180 LPM &amp; Head - 90 Metres</b>	Each	2		113437.05	-	2,26,874.10
1.52		Supplying, installing, testing and commissioning of <b>Electric Motor Driven type Automatic Pressurisation, Pump set</b> suitable for automatic operation of <b>Terrace down comer</b> and consisting of the following (as per CPWD specifications Part V-1985) for fire fighting and its amendmendts).					-	-
a		Fire pump with stainless steel impeller CI casing, SS shaft shall be horizontal end suction centrifugally type having a capacity of <b>900 LPM</b> against a total head of <b>35m</b> so as to ensure a minimum pressure of 3.0 kg/sqm at the highest and farthest out at the specified flow complete with necessary strainer with foot valve in suction side and pressure gauge on the delivery side including bypass arrangement for periodic testing of the working of the pumping set as required. The pump shall be provided with mechanical seals.(Including taking necessary approval of complete fire fighting scheme from local fire authority before and after start of work) {Agency also has to submit characterstic curve of the pumps, model & other technical data for approval before placing the order}					-	-
b		Squirrel cage AC induction motor suitable fot operation of 415 V ,+/-10%, 3 phase 50 HZ, AC supply and of minimum 7.5 HP,1500 RPM for the above pump with flexible coupling as per spcification and conforming to IS 325-1978 and shall be TEFC type only					-	-
c		Common base plate fabricated from mild steel channel ot castiron type					-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
d		1 No. 3 Phase, fully automatic DOL starter, type - II of 10 HP with thermal overload relay, contactor, Timer, Push Buttons and Auto-manual selector switch etc complete as required.					-	-
e	NS	Suitable cement concrete pump foundation with vibration damping arrangement with cushy foot mounting as required and having provision of suitable weather protection cover.	Each	14		115689	-	16,19,646.00
							-	-
1.53		Supplying, installing, testing and commissioning of <b>Electric Motor Driven type Automatic Pressurisation, Pump set</b> suitable for automatic operation of <b>Terrace down comer</b> and consisting of the following (as per CPWD specifications Part V-1985) for fire fighting and its amendmndts).					-	-
a		Fire pump with stainless steel impeller CI casing, SS shaft shall be horizontal end suction centrifugally type having a capacity of <b>450 LPM</b> against a total head of <b>35m</b> so as to ensure a minimum pressure of 3.0 kg/sqm at the highest and farthest out at the specified flow complete with necessary strainer with foot valve in suction side and pressure gauge on the delivery side including bypass arrangement for periodic testing of the working of the pumping set as required. The pump shall be provided with mechanical seals.(Including taking necessary approval of complete fire fighting scheme from local fire authority before and after start of work) {Agency also has to submit characteristic curve of the pumps, model & other technical data for approval before placing the order}					-	-
b		Squirrel cage AC induction motor suitable fot operation of 415 V ,+/-10%, 3 phase 50 HZ, AC supply and of minimum 7.5 HP,1500 RPM for the above pump with flexible coupling as per spwcification and conforming to IS 325-1978 and shall be TEFC type only					-	-
c		Common base plate fabricated from mild steel channel ot castiron type					-	-
d		1 No. 3 Phase, fully automatic DOL starter, type - II of 10 HP with thermal overload relay, contactor, Timer, Push Buttons and Auto-manual selector switch etc complete as required.					-	-
e	NS	Suitable cement concrete pump foundation with vibration damping arrangement with cushy foot mounting as required and having provision of suitable weather protection cover.	Each	1		87937	-	87,937.00
							-	-
1.54	NS	Providing and fixing exhaust, Diesel engine driven pump <b>exhaust M. S. pipe</b> class 'B' of suitable dia (100mm dia) for the engine including fitting like flanges, bends, reducers, etc. The pipe shall be provided with 12 mm thick supercera ceramic fibre rope, 21 gauge, necessary excavation, fixing of silencer connections at engine exhaust, necessary supports, back filling, cutting and making good, bird proof and weather proof flap complete in all respect as directed.	RM	100		1455	-	1,45,500.00
							-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
2.00	NS	FIRE -FIGHTING PANEL (Housing Block)					-	-
2.01		FIRE -FIGHTING PANEL (In Pump Room)					-	-
		Supply, installation, testing and commissioning of following M.V. cubicle type totally enclosed, powder coated, free standing type, dust, damp and vermin proof, indoor type Panel complete with busbars, M.V. danger notice plate, interconnections with suitable capacity aluminium leads/solid aluminium strips/rods, connection of incoming and outgoing cables with thimbles, and having following incoming and outgoing switchgears complete as required.					-	-
		<b>Note :</b>					-	-
		All MCCBs shall have Ics=Icu .					-	-
							-	-
		<b>INCOMER :</b>					-	-
		800 Amp 415 volts, 50 KA FP MCCB with microprocessor based release having variable current settings of O/L, S/C & inbuilt E/F protection release.					-	-
		R,Y&B phase indicating lamp (LED type) with 6A control SP MCB					-	-
		"ON" ,"OFF" and "TRIP" LED indicating lamp and 6A control SP MCBs					-	-
		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.					-	-
		<b>BUSBARS :</b>					-	-
		600 Amp TPN busbars of aluminium					-	-
							-	-
		<b>OUTGOINGS :</b>					-	-
i		<b>24 Sets of following (Terrace pump)</b>					-	-
		63 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-
		1 NOs. 3 Phase,star-delta starter of 15 HP with thermal overload relay with inbuilt/separate single phase preventer , contactor, Timer, Push Buttons and Auto-manual selector switch etc including its mounting on the wall and control cables for starting of the motor complete as required.					-	-
		LED indicating Lamps for "ON" , "OFF" & "TRIP".					-	-
		Digital ammeter with selector switch with one set of suitable cast resin C.T' s					-	-
							-	-
<b>ii</b>		<b>2 Sets of following( Terrace Pump )</b>					-	-
		32 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-
		1 no 3 Phase,DOL starter of 7.5 HP with thermal overload relay with inbuilt single phase preventor , contactor, Push Buttons and Switches etc complete as required.					-	-
		LED indicating Lamps for "ON" , "OFF" & "TRIP" .					-	-
		1 no Digital ammeter with selector switch with one set of suitable C.T. s					-	-
							-	-
<b>iii</b>		<b>2 Sets of following( main electric Driven pump )</b>					-	-
		200 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
		1 NOS. 3 Phase,star-delta starter of 100 HP with thermal overload relay with inbuilt/separate single phase preventer , contactor, Timer, Push Buttons and Auto-manual selector switch etc including its mounting on the wall and control cables for starting of the motor complete as required.					-	-
		LED indicating Lamps for "ON" , "OFF" & "TRIP" .					-	-
		1 no Digital ammeter with selector switch with one set of suitable C.T. s					-	-
							-	-
<b>iv</b>		<b>2 Sets of following( jockey Pump )</b>					-	-
		32 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-
		1 NOS. 3 Phase,star-delta starter of 10 HP with thermal overload relay with inbuilt/separate single phase preventer , contactor, Timer, Push Buttons and Auto-manual selector switch etc including its mounting on the wall and control cables for starting of the motor complete as required.					-	-
		LED indicating Lamps for "ON" , "OFF" & "TRIP" .					-	-
		1 no Digital ammeter with selector switch with one set of suitable C.T. s					-	-
							-	-
<b>v</b>		<b>4 Sets of following (Spare)</b>					-	-
		32 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-
		LED indicating Lamps for "ON" , "OFF" & "TRIP" .					-	-
							-	-
<b>vi</b>		<b>1 Set of following in a separate cubicle (Diesel engine auto starting kit)</b>					-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
		One no. Diesel engine auto starting kit with all necessary relay, controls, wiring etc to start 45 HP diesel engine when electrical driven fire pump fail to start including one no rectifier circuit, battery charger, batteries, DC Voltmeter, DC Ammeter and its interconnection with control cables etc complete in ready to use condition.					-	-
		<b>Fire Fighting Pump Panel Housing Block in Pump room as above</b>	Set	1		1513939.16	-	15,13,939.16
<b>2.02</b>	NS	<b>FIRE -FIGHTING PANEL (OPD Block)</b>					-	-
		<b>FIRE -FIGHTING PANEL (In Pump Room)</b>					-	-
		Supply, installation, testing and commissioning of following M.V. cubicle type totally enclosed, powder coated, free standing type, dust, damp and vermin proof, indoor type Panel complete with busbars, M.V. danger notice plate, interconnections with suitable capacity aluminium leads/solid aluminium strips/rods, connection of incoming and outgoing cables with thimbles, and having following incoming and outgoing switchgears complete as required.					-	-
		<b>Note :</b>					-	-
		All MCCBs shall have Ics=Icu .					-	-
		<b>INCOMER :</b>					-	-
		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.					-	-
		R,Y&B phase indicating lamp (LED type) with 6A control SP MCB					-	-
		"ON" ,"OFF" and "TRIP" LED indicating lamp and 6A control SP MCBs					-	-
		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.					-	-
		<b>BUSBARS :</b>					-	-
		600 Amp TPN busbars of aluminium					-	-
		<b>OUTGOINGS :</b>					-	-
<b>i</b>		<b>2 Sets of following( main electric Driven pump )</b>					-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
		200 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-
		1 NOS. 3 Phase,star-delta starter of 90 HP with thermal overload relay with inbuilt/separate single phase preventer , contactor, Timer, Push Buttons and Auto-manual selector switch etc including its mounting on the wall and control cables for starting of the motor complete as required.					-	-
		LED indicating Lamps for "ON" , "OFF" & "TRIP" .					-	-
		1 no Digital ammeter with selector switch with one set of suitable C.T. s					-	-
							-	-
<b>ii</b>		<b>2 Sets of following( jockey Pump )</b>					-	-
		32 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-
		1 no 3 Phase,DOL starter of 7.5 HP with thermal overload relay with inbuilt single phase preventor , contactor, Push Buttons and Switches etc complete as required.					-	-
		LED indicating Lamps for "ON" , "OFF" & "TRIP" .					-	-
		1 no Digital ammeter with selector switch with one set of suitable C.T. s					-	-
							-	-
<b>iii</b>		<b>2 Sets of following (Terrace pump)</b>					-	-
		63 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-
		1 NOS. 3 Phase,star-delta starter of 15 HP with thermal overload relay with inbuilt/separate single phase preventer , contactor, Timer, Push Buttons and Auto-manual selector switch etc including its mounting on the wall and control cables for starting of the motor complete as required.					-	-

Item No	Ref. No.	Description Of Item	Unit	TOTAL QTY. Housing Blocks & OPD	DSR 16 Rate (Rs)	Market Rate(Rs)	DSR 16 Amount	Amount Mkt(Rs)
1	2	3	4	5	6	7	8	9
		LED indicating Lamps for "ON", "OFF" & "TRIP".					-	-
		Digital ammeter with selector switch with one set of suitable cast resin C.T's					-	-
							-	-
<b>iv</b>		<b>4 Sets of following (Spare)</b>					-	-
		32 Amp. 415 volts, 35 KA (Ics=Icu), TPN MCCB, with Thermal magnetic release having variable current settings. .					-	-
		Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					-	-
		LED indicating Lamps for "ON", "OFF" & "TRIP".					-	-
							-	-
<b>v</b>		<b>1 Set of following in a separate cubicle (Diesel engine auto starting kit)</b>					-	-
		One no. Diesel engine auto starting kit with all necessary relay, controls, wiring etc to start 45 HP diesel engine when electrical driven fire pump fail to start including one no rectifier circuit, battery charger, batteries, DC Voltmeter, DC Ammeter and its interconnection with control cables etc complete in ready to use condition.					-	-
							-	-
		<b>Fire Fighting Pump Panel Hospital Block in Pump room as above</b>	Set	1		765473	-	7,65,473.00
							-	-
		<b>TOTAL</b>					<b>102,74,137.45</b>	<b>795,90,603.18</b>



**Name of Work: Construction of Residential Complex and OPD Block at AIIMS KALYANI-Fire Fighting BOQ**

**ABSTRACT OF COST**

<b>S.No</b>	<b>DESCRIPTION OF WORK</b>	<b>DSR AMOUNT(Rs)-2016</b>	<b>MARKET RATE AMOUNT(Rs)</b>
<b>1</b>	<b>FIRE FIGHTING</b>	<b>102,74,137.45</b>	<b>795,90,603.18</b>
	<b>GRAND TOTAL</b>	<b>898,64,740.63</b>	

<b>BILL OF QUANTITIES (B.O.Q.) OF HVAC WORKS FOR "RESIDENTIAL COMPLEX &amp; OPD BLOCK AT AIIMS-KALYANI (W.B.)"</b>							
<b>Item No.</b> 1	<b>DSR/ NDSR</b> 2	<b>Description</b> 3	<b>Qty.</b> 4	<b>Unit</b> 5	<b>Rate in Rs.</b> <b>( in Figure)</b> 6	<b>Rate in Rs.</b> <b>(in words)</b> 7	<b>Amount (Rs.)</b> 8
The prices are to be quoted in the below mentioned form and shall include the supply, installation, testing & commissioning at site of all the equipments, ancillary 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 drawings.							
The tenderer shall quote rates in figures and in words under column 6&7 and extend amount to column 8							
<b>Note:</b>		<b>All Equipment will be BMS Compatible with BACnet/MODbus protocol</b>					
<b>A)</b>		<b><u>EQUIPMENTS</u></b>					
<b>1.0</b>		<b>WATER CHILLING UNITS.</b>					
1.1		Supply, Installation, Testing and Commissioning of water cooled centrifugal type Water chiller machines ( ARI Certified ) each having a capacity of 500 TR (actual) at chilled water inlet/outlet temperature of 12.22°C /6.6°C with chilled water circulation rate of 1200 USGPM (nominal) and condenser water inlet/outlet temprature of 33.9°C /39.44°C with circulation rate of 1500 USGPM (Nominal), suitable for operation on refrigerant R134a each comprising of the following complete as per specification and as required.					
		a. 1 No.- centrifugal type compressor hermatic / semi hermatic / open, single/multistage type, automatic capacity control, safety switches, speed increasing gears, forced feed lubrication system etc. as per specifications. The compressor shall have mechanism for stable operation at part loads .					
		b. 1 No.- Suitable capacity squirrel cage induction motor ( as per design of chiller manufacturer) suitable for operation on 415±10% volts, 50 Hz A.C. supply.					
		c. 1 No. factory fitted ( unit mounted or separate as per std design of Chiller manufacturer ) variable frequency drive with active harmonic filters to limit THDi to 5% at equipment level and suitable for compressor motor complete with ammeter with CTs, overload protection ,under voltage protection, protection against phase reversal & independent single phase preventers etc complete as required.					
		VFD shall be the same make and model which will be used for the testing at manufacturer's works for the AHRI certification. The power and control wiring of the VFD starter to chiller shall be done by the manufacturer.					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Necessary drive arrangement.					
		d. 1 Set- Lubrication Device consisting of automatic electric oil pump, oil cooler, head tank, oil strainer, automatic oil pressure regulating valve, oil heater, oil heater thermal switch etc. and related controls.					
		e. 1 No.- ASME stamped matching shell and tube water cooled condenser of M.S. shell and integrally finned copper tubes with marine boxes. Maximum head loss 8 m water head.					
		f. 1 No.- ASME stamped matching shell and tube flooded type chiller of M.S. shell and integrally finned copper tubes with marine boxes. Maximum head loss 5 m water head.					
		g. 1 Lot- refrigerant piping fittings, valve and accessories to inter connect compressor, condenser, chiller and expansion valve.					
		h. 1 Set- Advanced Microprocessor based control pannel with automatic controls, coloured & graphical display, complete with accessories as per specifications.					
		i. Lot- Refrigerant line accessories comprising of safety valves, angle valve, liquid line indications, liquid level controls etc.					
		j. Lot- water flow switches at inlet and outlet of condenser & chiller, water drain and air purge valves wherever required.					
		k. Lot- Thermal insulation on machine as required.					
		l. Lot- Victaulic coupling at the inlet and outlet piping connections of evaporator and condenser of chillers with vibration isolations.					
		m. Lot- Frame work for mounting the above condenser, chiller, compressor and motor with base plate complete with anti vibration pads/ springs.					
		n. Lot-Initial/first charge of refrigerant gas and compressor oil.					
		o. Necessary spring isolators with 25 mm deflection from OEM for the chilling unit.					
		p. Microprocessor based control panel complete with accessories as per specifications and BMS compatible BACNET/MODBUS Protocol with BMS cards.					
		q. Suitable RCC/Cement concrete foundation for the chilling units installation complete as required. As per the manufacturer drawing.					
		r. The Minimum COP of 6.3 and IPLV $\geq 9$ at ARI conditions should be complied .					
		s. The IKW/TR should not be less than 0.65 (inclusive of all losses) at duty conditions.					
		t. Chilling machine equipment shall be tested as per conditions stipulated in tender for points 25%, 50%, 75% and 100% and test report shall be submitted.					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Chiller Fouling Factor : 0.0005 (FPS Unit)					
		Condenser Fouling Factor : 0.001 ( FPS Unit)					
		<b>Complete water chilling machine as above.(2W)</b>	2	Nos	10864104		21728208
1.2		<b><u>Plant Room Manager</u></b>					
		Plant room manager shall be of same make as chiller.Plant Room Manager for sequencing, remote monitoring, controlling and report generation of all equipments in AC plant room/high side. Selected controler shall have capabity to meet detailed IO summary mentioned under specifications. Supervisory controller for management level interface in MS Enclouser SWG thickness, powder coated Siemens grey for Supervisoty Controller, IO Cards (with accessories like Transformer, MCBs, internal wiring and Relays with bases). Workstation PC i5 computer 3000 Mhz with 1 TB hard disk, 21" TFT monitor, 104 windows key board, mouse,serial and parallel ports with laser colour printer. This must have software integration on chillers with 3rd party interface avaiable on BACNET including cabling & conduit work as required with card.					
1.2.1		For Plant Room	1	Lot	1724935		1724935
2.0		<b>WATER CIRCULATION PUMPS</b>					
2.1		<b>Primary Chilled Water Pumps</b>					
		Supply, installation, testing and commissioning of split casing end suction type centrifugal 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 specifications & schedule of equipments.					
		a. Pump with IP 55 TEFC induction motor with class F insulation, IE-3.					
		b. Channel base with vibration isolators, coupling, coupling guard etc.					
		c. Cladded insulation and anti corrosive coating inside and outside casing etc. of chilled water pump.					
		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.Bellows in suction and discharge line for vibration isolation of suitable capacity.					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		g. Suitable RCC/Cement concrete foundation for the pumps installation complete as required. As per the manufacturer drawing.					
		The pump characteristic shall be as follows:					
2.1.1		Water flow rate=1200 USGPM					
		Head = 16 Metre WC					
		<b>Primary chilled water pumps as described above. (2W+1S)</b>	3	Nos	168872		506616
<b>2.2</b>		<b>Secondary Pumps &amp; Variable Speed Pumping System</b>					
		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 complete with following as per specifications & schedule of equipments.					
		a. Pump with IP 55 TEFC induction motor with class F insulation, IE-3.					
		b. Channel base with vibration isolators, coupling, coupling guard etc.					
		c. Cladded insulation and anti corrosive coating inside and outside casing etc. of chilled water pump.					
		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) from the pump supplier.					
		g. All pumps to be provided with seperate VFD's (variable frequency drives). Separate control panel for each zone/set. Panel should also consist of cooling fan.					
		h. Electronic Differential Pressure Transmitters and separate PLC s for each sets..					
		i. The cost will include making necessary flanged suction and delivery headers in C-Class MS					
		j. Suitable RCC/Cement concrete foundation for the pumps installation complete as required, as per the manufacturer drawing.					
		k. Bellows in suction and discharge line for vibration isolation of suitable capacity.					
		l. Complete set system to be mounted on a common MS base frame and shall follow following duty.					
		The pump characteristic shall be as follows:					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
2.2.1		1200 USGPM( For OPD block) Head = 32 Metre WC					
		<b>Secondary chilled water pumps as described above. (2W+1S)</b>	3	Nos	400296		1200888
2.2.2		500 USGPM ( for Ayush block) Head = 24 Metre WC					
		<b>Secondary chilled water pumps as described above. (1W+1S)</b>	2	Nos	261275		522550
<b>2.3</b>		<b>Condenser water Pumps</b>					
		Supply, installation, testing and commissioning of end suction back pull out type vertical split casing centrifugal 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 specifications & schedule of equipments.					
		a. Pump with IP 55 TEFC induction motor with class F insulation, IE-3.					
		b. Channel base with vibration isolators, coupling, coupling guard etc.					
		c. Cladded insulation and anti corrosive coating inside and outside casing etc. of chilled water pump.					
		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. Bellows in suction and discharge line for vibration isolation of suitable capacity.					
		g. Suitable RCC/Cement concrete foundation for the pumps installation complete as required. As per the manufacturer drawing.					
		The pump characteristic shall be as follows:					
2.3.1		Water flow rate=1500 USGPM Head = 22 Metre WC					
		<b>Condenser water pumps as described above. (2W+1S)</b>	3	Nos.	266082		798246
<b>3.0</b>		<b>COOLING TOWER (CTI Certified)</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Supply, installation, testing and commissioning of induced draft FRP type cooling towers for air conditioning system. Each tower shall be complete with distribution system, filling, louvers, steel ladder, fan , motor , VFD and VFD controller for each fans. Motor shall be IP 55 suitable for outdoor installation, 415±10% volts, 50 Hz, 3 phase power supply, IE-3 and insulation calss F. Isolator enclosed in weather proof panel complete with earthing shall be included. Tower shall be selected on basis of water temperature 103 - 93 degree F, ambient wet bulb 86 deg F. Cooling tower shall be compatible for working with BMS. Capacity shall be as follows:-					
		Suitable RCC/Cement concrete foundation for the Cooling tower installation complete as required. As per the manufacturer drawing.					
3.1		Water flow rate=1500 usgpm (min 02 cells in each)					
		<b>Cooling Tower as described above. (2W+1S)</b>	3	Nos.	1155608		3466824
<b>4.0</b>	<b>NDSR</b>	<b>Hot Water Generator</b>					
		Supply, installation, testing & commissioning of Electric Hot Water Generator for winter heating/monsoon reheating system. Hot water generator shall be complete with controls, sensors, controll cabling ,piping and fittings, thermal insulation, base frame etc. as per specifications.					
		Suitable RCC/Cement concrete foundation for the Cooling tower installation complete as required. As per the manufacturer drawing.					
4.1		Capacity : 200 KW					
		Status : (2W)					
		Temp IN/OUT : 110/125 DegF	2	Nos.	243897		487795
<b>5.0</b>		<b>AIR HANDLING UNITS</b>					
<b>5.1</b>		Supply, installation, testing and commissioning of sectional construction draw through type Air Handling Units (double skin type) of horizontal /2-tier as specified & shown in schedule of equipment complete with the following :-					
		a. Fan Section and canvas connection, Mixing Box, Thermal break profile. (double skin type)					
		b. Centrifugal blower backward curved direct/belt driven .					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		c. Coil section with cooling coil, heating coils as per specifications, minimum 2 bend GSS/PVC eliminators.					
		d. Pre filters with filter section in all AHUs.					
		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 section of same specifications as AHU panels and complete with filter frameworks.					
		f. Drain pan, drain connection.					
		g. Squirrel cage induction IP 55 TEFC , Insulation class 'F', Duty S1 , IE-3 drive motor, drive arrangement, guard etc.					
		h. Necessary vibration isolators & supporting arrangement.					
		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 <b>2 Way pressure independent dynamic balancing cum control valve of required size fitted with modulating actuators</b> 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.					
		l. Pre Filter : 90% down to 10 micron( MERV-7), Fine filter : 99% down to 3 micron (MERV-14), HEPA filter 99.97% down to 0.3 micron (MERV-17).					
		m. All the AHU's shall be with IP-55 rated suitable capacity VFD starter and isolator switch. The VFDs shall be UL listed with THDi less than 5%. On/Off/trip/run/standby/fault/trip display. O/L, S/C and single phase protection. Interlocking with FDA system for tripping. BMS compatible.					
5.1.1		AH-GF-01, GF-02 - 4600 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	2	Nos.	249552		499104
5.1.2		AH-GF-03- 2600 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	204812		204812



Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
5.1.3		AH-GF-04, 1F-07, 2F-01, 3F-01, 4F-07, 5F-05 - 4000 CFM/ 6RD Cooling Coil/ 75 mm static (with pre & fine filter)	6	Nos.	249552		1497312
5.1.4		AH-GF-05 - 5700 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	304665		304665
5.1.5		AH-GF-06- 3000 CFM /6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	209078		209078
5.1.6		AH-GF-07 - 14000 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter) including Heat (latent+sensible) recovery & exhaust blower of 3400 CFM	1	Nos.	922541		922541
5.1.7		AH-GF-08 - 9000 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter) including Heat (latent+sensible) recovery & exhaust blower of 3000 CFM	1	Nos.	710038		710038
5.1.8		AH-GF-09 - 7700 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	384431		384431
5.1.9		AH-GF-10 - 12500 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	545441		545441
5.1.10		AH-GF-11, 4F-02 - 14000 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	2	Nos.	545441		1090882
5.1.11		AH-1F-01 - 16500 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	682790		682790
5.1.12		AH-1F-02, 1F-06 - 10000 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	2	Nos.	484906		969812
5.1.13		AH-1F-03, 1F-04 - 11000 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter) including Heat (latent+sensible) recovery & exhaust blower of 2600 CFM	2	Nos.	810512		1621024
5.1.14		AH-1F-05 - 6600 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	337114		337114
5.1.15		AH-2F- 02, 2F-03, 2F-04, 2F-05, 3F-02, 3F-03, 3F-04, 3F-05, 4F-04, 4F-05, 4F-06 - 6500 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	11	Nos.	337114		3708254
5.1.16		AH-2F-06, 3F-06 - 21600 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	2	Nos.	887903		1775806
5.1.17		AH-2F-07, 3F-07 - 17000 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	2	Nos.	682790		1365580
5.1.18		AH- 4F-01 - 18000 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	682790		682790
5.1.19		AH- 4F-03, 5F-02 - 6100 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	2	Nos.	292559		585118
5.1.20		AH - 5F-01 - 11000 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter)	1	Nos.	484906		484906

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
5.1.21		AH-5F-03 - 13500 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter) including Heat (latent+sensible) recovery & exhaust blower of 2600 CFM.	1	Nos.	871047		871047
5.1.22		AH-5F-04 - 13500 CFM/6RD Cooling Coil/ 75 mm static (with pre & fine filter) including Heat (latent+sensible) recovery & exhaust blower of 2700 CFM.	1	Nos.	871047		871047
<b>5.2</b>		<b>CEILING SUSPENDED UNITS</b>					
		Supply, installation, testing and commissioning of draw through type Air Handling Units (double skin type) of ceiling suspended type as specified & shown in schedule of equipment complete with the following :-					
		a. Fan Section and canvas connection, Thermal break profile. (double skin type)					
		b. Centrifugal blower					
		c. Coil as per specifications.					
		d. Pre filters as required					
		e. Drain pan, drain connection.					
		f. Squirrel cage induction drive motor IP 55, TEFC , Insulation class 'F', duty S1, EFF-1 drive arrangement, guard etc.					
		g. Necessary vibration isolators & supporting arrangement.					
		h. Fresh air intake arrangement,necessary water drain & air purge valves wherever required etc.					
		i. Canvass connections,suspension arrangement, 2 nos pressure gauge, 2 nos thermometer etc					
		j. Controls for AHUs comprising of a set of PN-16 rating <b>2 Way pressure independent dynamic balancing cum control valve of required size fitted with modulating actuators</b> 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					
		k. Pre Filter : 90% down to 10 micron, Fine filter : 99% down to 3 micron (MERV-14), HEPA filter 99.97% down to 0.3 micron (MERV-17).					
5.2.1		CS-GF-01 - 2400 CFM /6RD Cooling Coil/ 65 mm static (with pre & fine filter)	1	Nos.	253444		253444
<b>6.0</b>		<b>VAV Boxes</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Pressure independent variable air volume boxes complete with damper, differential pressure sensor, temperaure sensor, thermostat, damper actuator, controller capable of accepting signal from thermostat and output to damper actuator with silencer.VAV boxes shall be factory caliberated, sound level shall not exceed 30 dbA. Quoted price shall include motorised damper with actuator, cooling & heating digital thermostat with on-off control, 24 V power supply unit, differential pressure sensor and required electrical/ control wiring to complete the commissioning.VAV boxes shall be suitable for following air flow capacities :-					
6.1		upto 350 cfm	135	Nos.	27185		3669975
6.2		351 cfm to 550 cfm	35	Nos.	27185		951475
6.3		551 cfm to 750 cfm	16	Nos.	27309		436944
6.4		751 cfm to 1000 cfm	13	Nos.	27309		355017
6.5		1001 cfm to 1500 cfm	9	Nos.	28305		254745
6.6		1501 cfm to 2000 cfm	1	Nos.	28927		28927
6.7		2001 cfm to 2500 cfm	1	Nos.	30545		30545
<b>7.0</b>		<b>Ventilation Fans</b>					
		<b>Inline Fans</b>					
<b>7.1</b>		Supply, installation, testing and commissioning of <b>Inline Fans</b> as shown in drawings and as per equipment schedule .Each fan shall be complete with 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 complete with starter & cabling.					
7.1.1		Air Quantity :250 CFM	2	Nos.	23257		46514
		Static Pressure :20 mm wg					
7.1.2		Air Quantity :350 CFM	1	Nos.	23257		23257
		Static Pressure :20 mm wg					
7.1.3		Air Quantity :450 CFM	1	Nos.	25331		25331
		Static Pressure :20 mm wg					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
7.1.4		Air Quantity :500 CFM Static Pressure :20 mm wg	1	Nos.	25331		25331
7.1.5		Air Quantity :800 CFM Static Pressure :20 mm wg	1	Nos.	27997		27997
7.1.6		Air Quantity :1000 CFM Static Pressure :25 mm wg	1	Nos.	32145		32145
<b>7.2</b>		<b>Tube Axial Flow Fan ( AMCA Certified)</b>					
		Supply, installation,testing and commisioning of tube axial flow fans as shown in drawings, Each fan shall be direct driven. Fan motor shall be suitable for 3 Phase, 415+/- 10% V, 50Hz AC supply with IP 55 protection, class 'F' insulation and IE-3 class. Fan shall be complete with gravity louvers, vibration isolators.					
7.2.1		Dutv: Lift well pressurisation Air Quantity : 9500 CFM Static Pressure : 30 mm wg	7	No.	63751		446257
7.2.2		Dutv: Lift well pressurisation Air Quantity : 12500 CFM Static Pressure : 30 mm wg	28	No.	69595		1948660
7.2.3		Dutv: Lift well pressurisation Air Quantity : 13000 CFM Static Pressure : 30 mm wg	2	No.	69456		138912
7.2.4		Dutv: Lift lobby pressurisation Air Quantity : 13200 CFM Static Pressure : 30 mm wg	1	No.	69456		69456
7.2.5		Dutv: Lift lobby pressurisation Air Quantity : 12000 CFM Static Pressure : 30 mm wg	1	No.	69595		69595

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Dutv: Typical floor, emergency fresh air					
7.2.6		Air Quantity : 19700 CFM, 30 mm st. pr.	5	Nos.	81138		405690
		Dutv: Fifth floor, emergency fresh air					
7.2.7		Air Quantity : 16500 CFM, 25 mm st. pr.	2	Nos.	68000		136000
<b>7.3</b>		<b>Tube Axial Fans (Fire rated &amp; AMCA Certified)</b>					
		Supply, installation, testing and commissioning of tube axial flow fans as shown in drawings, Each fan shall be direct driven. Fan motor shall be suitable for 3 Phase, 415+/- 10% V, 50Hz AC supply with IP 55 protection, class 'H' insulation and IE-3 class. Fan shall be complete with gravity louvers, vibration isolators. Fan shall be <b>250 deg C, 2hrs fire rated.</b>					
		Dutv: Typical floor smoke exhaust					
7.3.1		Air Quantity : 24600 CFM, 25 mm st. pr.	4	Nos.	138000		552000
		Dutv: fifth floor smoke exhaust					
7.3.2		Air Quantity : 16500 CFM, 25 mm st. pr.	2	Nos.	54241		108482
<b>7.4</b>	<b>NDSR</b>	<b>Centrifugal Fans</b>					
		Supply, installation, testing and commissioning of <b>SISW CENTRIFUGAL FANS (cabinet type)</b> for ventilation system. Each fan shall be complete with TEFC type IP 55 motor with class F insulation with IE-3, belt drive, pulley mounted on motor & fan shaft, belt guard, motor mount, casing and vibration isolators as per specifications and shop drawings. All expose fan shall be covered with GI 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 complete with gravity louvers.					
7.4.1		Dutv: toilet Exhaust					
		Air Quantity : 9600 CFM	2	Nos.	165148		330296
		Static Pressure : 30 mm wg					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
7.4.2		Duty: common area Exhaust					
		Air Quantity : 1400 CFM	2	Nos.	51000		102000
		Static Pressure : 25 mm wg					
7.4.3		Duty: common area & pathology Exhaust					
		Air Quantity : 2800 CFM	2	Nos.	87000		174000
		Static Pressure : 25 mm wg					
7.4.4		Duty: common area Exhaust					
		Air Quantity : 900 CFM	1	Nos.	39000		39000
		Static Pressure : 25 mm wg					
7.4.5		Duty: common area Exhaust					
		Air Quantity : 1700 CFM	1	Nos.	58000		58000
		Static Pressure : 25 mm wg					
<b>8.0</b>		<b>EXPANSION TANK</b>					
		Supply, installation, testing and commissioning of pressurised closed type Expansion tank with air separator and dosing pumps (1w+1s) etc. The expansion tank shall be complete with all necessary valves, vent connection. Quoted price shall include of 50 mm thick 32 kg/mt cu density TF quality Expanded polystyrene insulation and cladded with 24 gauge aluminum sheet for chilled water tank and glass wool insulation as per specifications with aluminium sheet cladding for Hot water tank. Tank shall be equipped with 15 mm dia vent, 450 mm dia manhole with cover, 40 mm dia make up with overflow connection (ball valve should be provided at the make up line), 50 mm dia drain and over flow with necessary valves and 50 mm dia insulated pipe connection to nearest chilled water return line					
8.1		2000 ltrs.	1	No.	180000		180000
<b>9.0</b>	<b>NDSR</b>	<b>VRV SYSTEMS (Variable Refrigerant volume)</b>					
		<b>FOR GUEST BLOCK</b>					
<b>9.1</b>	<b>NDSR</b>	<b>Outdoor Units-Heat Pump (R410A) (Heating &amp; Cooling both)</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Supply Installation Testing and Commissioning of AIR COOLED and ALL INVERTER BASED VARIABLE REFRIGERANT VOLUME MODULAR TYPE AIR CONDITIONING SYSTEM with R410A suitable for 415 ± 10% , 50 ± 3% Hz. The unit shall consist of indoor units and external condensing units and other accessories as listed below complete in all respects as under:					
		<b>Outdoor Units-Heat Pump (R410A) (Heating &amp; Cooling both) - EER as per ASHRAE 90.1-2010</b>					
9.1.1		16 HP Heat Pump type	3	No.	396613		1189839
9.1.2		10 HP Heat Pump type	5	No.	271302		1356510
9.1.3		8 HP Heat Pump type	2	No.	218394		436788
<b>9.2</b>	<b>NDSR</b>	<b>Indoor Units</b>					
9.2.1		Hi wall/ Hide away Type -1.3 TR	22	Nos.	36915		812130
9.2.2		Hi wall/ Hide away Type -1.5 TR	10	Nos.	40097		400970
9.2.3		Hi wall/ Hide away Type -2.0TR	19	Nos.	41450		787550
9.3		Supply, installation, testing & Commissioning of <b>Celing mounted duct type TFA</b> indoor units with DX Type cooling/ heating coil with all the accesserios , controls, electronic expansion valve etc. for qty's mentioned below complete as per specification and drawings·					
9.3.1		Ductable TFA unit : 1000 CFM	2	Nos.	124000		248000
<b>9.4</b>	<b>NDSR</b>	<b>Remote Controller</b>					
9.4.1		Corded Remotes	2	Nos.	259		518
9.4.2		Cordless Remotes	51	Nos.	104		5304
<b>9.5</b>	<b>NDSR</b>	<b>Central Remote Controller</b>					
			4	No.	34406		137624
		<b>Important Note for VRV system:</b>					
		<b>All compressors shall be with inverter technology. VRF system shall</b>					
		<b>The indoor unit shall be with drain pump kit.</b>					
		<b>Ductable Indoor Units shall be complete with its electrical control</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		The VRV controller should communicate all the parameters to BMS					
		The cost must include transportation to site & lifting upto terrace floor					
		Installation including necessary resisto-flex anti-vibrations pads etc.					
9.6	NDSR	<b>Refrigerant Piping</b>					
		Supply, Installation, commisioning of Interconnecting refrigerant pipe work (including refrigerant joints) with (19mm/13 mm thick) closed cell elastomeric nitrile rubber tubular insulation between each set of indoor & outdoor units as per specifications, all piping inside the room shall be properly supported with MS hanger & clamps. Exposed refrigerant copper piping shall be with uv coating.					
9.6.1		34.9 mm O.D. (insulation : 19 mm)	15	RM	1426		21390
9.6.2		28.6 mm O.D. (insulation : 19 mm)	200	RM	1180		236000
9.6.3		22.2 mm O.D. (insulation : 13 mm)	170	RM	996		169320
9.6.4		19.1 mm O.D. (insulation : 13 mm)	150	RM	837		125550
9.6.5		15.9 mm O.D. (insulation : 13 mm)	150	RM	687		103050
9.6.6		12.7 mm O.D. (insulation : 13 mm)	200	RM	522		104400
9.6.7		9.5 mm O.D. (insulation : 13 mm)	250	RM	502		125500
9.6.8		6.4 mm O.D. (insulation : 13 mm)	150	RM	460		69000
9.7	NDSR	<b>Drain Piping</b>					
		Supply,installation,testing and commissioning of rigid uPVC piping complete with fittings, supports as per specifications and duly insulated with 6 mm thick closed cell nitrile rubber. Density of uPVC pipe shall not be less than 10 kg / m <sup>3</sup> .					
9.7.1		40 mm dia	50	RM	363		18150
9.7.2		32 mm dia	50	RM	281		14050
9.7.3		25 mm dia	200	RM	234		46800
9.8		Supply, installation, testing and commissioning of <b>G.I. tray</b> for exposed refrigerant copper piping at terrace to be covered with self threaded screw.	250	RM	703		175750



Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
9.9	NDSR	<b>Control &amp; Transmission Wiring</b>					
		Supply,installation,testing and commissioning of control cum transmission wiring of 2 core x 1.5 sqmm copper in suitable PVC conduits between indoor and out door unit.	750	RM	156		117000
9.10	NDSR	<b>Weather Proof Isolators For outdoor Units</b>					
		Weather proof Isolator box with 100 mA 4P RCBO of suitable ratings near the outdoor units for isolations.	10	Nos.	4441		44410
<b>B)</b>		<b>PIPING</b>					
<b>10.0</b>	<b>DSR</b>	<b>CONDENSER WATER PIPING</b>					
	16.10	Supplying, fixing, testing and commissioning of condenser water pipes of following sizes of MS 'C' class along with necessary clamps, vibration isolators and fittings such as bends,tees etc.but excluding valves, strainers, gauges etc. adequately supported on rigid supports duly painted/buried in ground excavation and refilling etc. as per specification and as required complete in all respect. Note:-The Pipes size 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm 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.					
10.1	NDSR	350 mm dia	130	RM	4605		598650
10.2	16.10.1	300 mm dia	45	RM	4187		188415
10.3	16.10.2	250 mm dia	130	RM	3524		458120
10.4	16.10.3	200 mm dia	50	RM	2918		145900
10.5	16.10.4	150 mm dia	60	RM	1983		118980
10.6	16.10.5	125 mm dia	60	RM	1710		102600
10.7	16.10.6	100 mm dia	50	RM	1436		71800
10.8	NDSR	80 mm dia	60	RM	808		48480
10.9	NDSR	65 mm dia	20	RM	652		13040
10.10	NDSR	50 mm dia	20	RM	506		10120

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
10.11	NDSR	40 mm dia	20	RM	370		7400
10.12							
<b>11.0</b>		<b>VALVES WITHOUT INSULATION</b>					
	16.11	Supplying, fixing, testing and commissioning of following valves, gauges and strainers for condenser water circulation as per specifications.					
<b>11.1</b>	16.11.1	<b>Butterfly valves (manual) :</b> with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified.					
11.1.1	NDSR	350 mm dia.	5	Nos	29343		146713
11.1.2	NDSR	300 mm dia.	2	Nos	19307		38614
11.1.3	NDSR	250 mm dia.	18	Nos	14835		267029
11.1.4	16.11.1.1	200 mm dia.	14	Nos	10261		143654
11.1.5	16.11.1.2	150 mm dia.	2	Nos	5914		11828
11.1.6	16.11.1.3	125 mm dia.	2	Nos	5138		10276
<b>11.2</b>	<b>DSR</b>	<b><u>Motorized Butterfly Valves</u></b>					
		Supplying, fixing , testing and commissioning of following sizes Motorized Butterfly Valve with CI Body, SS Disc, O-ring and minimum PN-16 rating, confirming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC, and upto 20 mAelectric signal and providing similar transduced feedback output to control system as required.					
11.2.1	16.11.3.3	250 mm dia.	10	Nos	53014		530140
11.2.2	16.11.3.4	200 mm dia.	2	Nos.	40548		81096
<b>11.3</b>	<b>NDSR</b>	<b>Automatic Balancing Valves</b>					
		Supply, installation, testing and commissioning of BMS compatible automatic balancing valves in return condenser water line of each condenser and cooling tower as per tender specification & of following sizes:					
11.3.1		250 mm dia (For Condenser )	10	Nos	66463		664628

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
11.4	16.11.2	Non return/Check valves : with dual plate of CI body SS plates vucanized NBR seal flanged end & PN 16 pressure rating as specified.					
11.4.1	NDSR	250 mm dia.	3	Nos	17569		52708
11.5	NDSR	Pot strainer with drain valve					
11.5.1		350 mm dia.	1	Nos	114885		114885
11.6	NDSR	Y- strainer with drain valve					
11.6.1		250 mm dia.	3	Nos	25730		77190
11.7	NDSR	Auto Air Vent Valves					
11.7.1		20 mm dia	25	Nos	1000		25000
11.7.2		25 mm dia	30	Nos	1200		36000
11.8	NDSR	Suction Guide					
		Providing and fixing of suction guide of following sizes in the inlet of condenser water pumps as per specifications					
11.8.1		250 mm dia.	4	Nos.	38000		152000
12.0	DSR	INSULATED CHILLED WATER PIPING					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
12.1	16.3	Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping plumbing inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with fire retardant quality expanded polystyrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63 aluminium sheet cladding complete with type3, grade 1 roofing feltstrip (as per IS:1322 as amended up to date) at joints repairing of damage to building etc. as per specifications and as required complete in all respect. <b>Note:</b> The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm 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.					
12.1.1	16.3.3	300 mm dia (75 mm insulation)	50	RM	5809		290450
12.1.2	16.3.4	250 mm dia (75 mm insulation)	520	RM	4923		2559960
12.1.3	16.3.5	200 mm dia (75 mm insulation)	200	RM	4120		824000
12.1.4	16.3.6	150 mm dia (75 mm insulation)	200	RM	2779		555800
12.1.5	16.3.7	125 mm dia (50 mm insulation)	160	RM	2330		372800
12.1.6	16.3.8	100 mm dia (50 mm insulation)	222	RM	1981		439782
12.1.7	16.3.9	80 mm dia (50 mm insulation)	750	RM	1555		1166250
12.1.8	16.3.10	65 mm dia (50 mm insulation)	150	RM	1343		201450
12.1.9	16.3.11	50 mm dia (50 mm insulation)	120	RM	1109		133080
12.1.10	16.3.12	40 mm dia (50 mm insulation)	60	RM	944		56640
12.1.11	16.3.13	32 mm dia (50 mm insulation)	50	RM	834		41700
12.1.12	16.3.14	25 mm dia (50 mm insulation)	30	RM	749		22470
12.2	NDSR	<b>PIPING (Burried)</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Supply, Installation, Testing and Commissioning of following nominal sizes of <b>Chilled water piping Outside the building burried in ground</b> (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges) adequately supported on rigid supports and duly insulated with fire retardant quality expanded polysterene molded pipe sections of specified density after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500 gm polythene faced hessain and secured with 0.5mm x 20mm G.I wire mesh and two coats of cement plaster (each layer not less than 10mm) as per specifications including digging and refilling the trenches and providing suitable thickness 1:2:4 cement concrete pads at 3 m intervals complete as per specifications and as required.					
12.2.1		300 mm dia	200	RM	5000		1000000
12.2.2		125 mm dia	200	RM	3000		600000
<b>13.0</b>	<b>DSR</b>	<b>INSULATED VALVES &amp; STRAINERS</b>					
	16.7	Supplying, fixing, testing and commissioning of following valves, strainers, gauges in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.					
13.1	16.7.1	<b>Butterfly valves (Manual) :</b> with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/ hot water circulation as specified					
13.1.1	ndsr	300mm dia.	2	Nos	52509		105017
13.1.2	ndsr	250mm dia.	2	Nos	15635		31270
13.1.3	16.7.1.1	200 mm dia.	20	Nos	11102		222040
13.1.4	16.7.1.2	150 mm dia.	6	Nos	6625		39750
13.1.5	16.7.1.3	125 mm dia.	6	Nos	5780		34680
13.1.6	16.7.1.4	100 mm dia.	14	Nos	5330		74620
13.1.7	16.7.1.5	80 mm dia.	20	Nos	3719		74380

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
13.1.8	16.7.1.6	65 mm dia	20	Nos	3351		67020
13.1.9	16.7.1.7	50 mm dia.	34	Nos	3050		103700
13.1.10	16.7.1.8	40 mm dia.	6	Nos	2686		16116
13.1.11	NDSR	32 mm dia	8	Nos	1575		12599
13.1.12	NDSR	25 mm dia ( ball valve)	2	Nos	1575		3150
13.1.13	NDSR	20 mm dia ( ball valve)	2	Nos	1575		3150
13.2	NDSR	<b>Motorized Butterfly Valves</b>					
		Providing and fixing the following motorized butterfly valves for chilled water pumps and boiler as per specifications					
13.2.1	NDSR	200 mm dia.	9	Nos.	79480		715319
13.2.2	NDSR	125 mm dia.	12	Nos.	47261		567137
13.2.3	NDSR	100 mm dia.	8	Nos.	22324		178593
13.2.4	NDSR	65 mm dia.	4	Nos.	20157		80629
13.2.5	NDSR	50 mm dia.	4	Nos.	17000		68000
13.3	16.7.2	<b>Balancing valves with buit in measuring facility</b> with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.					
13.3.1	NDSR	250 mm dia.	1	Nos	67363		67363
13.3.2	16.7.2.1	200 mm dia.	4	Nos	48763		195052
13.3.3	16.7.2.2	150 mm dia.	3	Nos	23798		71394
13.3.4	16.7.2.3	125 mm dia.	1	Nos	18608		18608
13.3.5	16.7.2.4	100 mm dia.	6	Nos	11945		71670
13.3.6	16.7.2.5	80 mm dia.	2	Nos	7395		14790
13.3.7	16.7.2.6	65 mm dia.	2	Nos	7101		14202
13.3.8	16.7.2.7	50 mm dia.	2	Nos	6386		12772
13.3.9	16.7.2.8	40 mm dia.	2	Nos	3175		6350

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
13.4	16.7.3	<b>Non return/Check valves :</b> with duel plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified.					
13.4.1	16.7.3.1	200 mm dia.	6	Nos	9655		57930
13.4.2	16.7.3.3	125 mm dia.	2	Nos	5163		10326
13.4.3	16.7.3.6	65 mm dia.	2	Nos	2443		4886
13.5	16.7.4	<b>Y- strainers</b> of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.					
13.5.1	16.7.4.1	200 mm dia.	6	Nos	20853		125118
13.5.2	16.7.4.2	150 mm dia.	2	Nos	10530		21060
13.5.3	16.7.4.3	125 mm dia.	2	Nos	9880		19760
13.5.4	16.7.4.4	100 mm dia.	1	Nos	6918		6918
13.5.5	16.7.4.5	80 mm dia.	10	Nos	5026		50260
13.5.6	16.7.4.6	65 mm dia	10	Nos	4434		44340
13.5.7	16.7.4.7	50 mm dia	17	Nos	3516		59772
13.5.8	16.7.4.8	40 mm dia	3	Nos	2478		7434
13.5.9	NDSR	32 mm dia	4	Nos	2400		9600
13.5.10	NDSR	25 mm dia	2	Nos	2400		4800
13.5.11	NDSR	20 mm dia	2	Nos	2200		4400
13.6	NDSR	<b>Suction Guide</b>					
		Providing and fixing of suction guide of following sizes in the inlet of chilled water pumps as per specifications					
13.6.1		200 mm	6	Nos.	35000		210000
13.6.2		125 mm	2	Nos.	20000		40000

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
13.6.3		65 mm	2	Nos.	15000		30000
13.7	NDSR	Providing and fixing in position the following <b>Gate Valves</b> duly insulated as per specifications:					
13.7.1		50 mm dia Valves	10	Nos.	2500		25000
13.7.2		40 mm dia Valves	10	Nos.	2000		20000
13.7.3		32 mm dia Valves	12	Nos.	1800		21600
13.8	NDSR	<b>Auto Air Vent Valves</b>					
13.8.1		20 mm dia	40	Nos.	1000		40000
13.8.2		25 mm dia	25	Nos.	1200		30000
13.9	NDSR	<b>Ball Valve with strainer</b>					
13.9.1		25 mm	10	Nos.	2100		21000
13.9.2		20 mm	10	Nos.	1800		18000
13.10	NDSR	<b>Ball valve without strainer</b>					
13.10.1		25 mm	10	Nos.	1200		12000
13.10.2		20 mm	10	Nos.	1000		10000
13.11		Supply, installation, testing and commissioning cooling thermostats :-					
13.11.1		For AHUs	45	Nos.	4317		194265
14.0	NDSR	<b>DRAIN PIPING</b>					
14.1		Supply, laying/fixing, testing and commissioning of G.I. medium class ERW piping conforming to IS:1239 with necessary clamps, supports, anti vibration mountings, hangers and fittings such as bends, tees, reducers etc. duly insulated and painted as per specifications for condensate drain from air handling units and chillers etc.					



Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
14.1.1		65 mm dia	50	RM	725		36250
14.1.2		50 mm dia	300	RM	674		202200
14.1.3		40 mm dia	150	RM	524		78600
14.1.4		32 mm dia	200	RM	460		92000
14.1.5		25 mm dia	100	RM	375		37500
<b>C)</b>		<b><u>AIR DISTRIBUTION</u></b>					
<b>15.0</b>		<b>DUCTING</b>					
<b>15.1</b>	<b>DSR</b>	<b>GSS DUCTING</b>					
	16.12.1	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.					
15.1.1	16.12.1.1	Thickness 0.63 mm sheet	17000	Sqm.	739		12563000
15.1.2	16.12.1.2	Thickness 0.80 mm sheet	5200	Sqm.	905		4706000
15.1.3	16.12.1.3	Thickness 1.00 mm sheet	2500	Sqm.	1014		2535000
15.1.4	16.12.1.4	Thickness 1.25 mm sheet	650	Sqm.	1278		830700
<b>15.2</b>	<b>NDSR</b>	<b>ALUMINIUM DUCTING</b>					
		Supply, fabrication, installation and testing of aluminium ducts in accordance with the approved shop floor drawing and specifications. Material should confirm to IS 737 latest edition.					
15.2.1		Thickness 0.80 mm sheet	250	Sqm.	706		176500
15.2.2		Thickness 1.00 mm sheet	180	Sqm.	880		158400
15.2.3		Thickness 1.5 mm sheet	80	Sqm	1134		90720
16	<b>DSR</b>	<b>FIRE DAMPERS</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
16.1	16.20	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 damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open 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.					
16.1.1	16.20.1	Fire Damper	120	Sqm	7103		852360
16.1.2	16.20.2	Actuator	185	sets	6604		1221740
<b>17.0</b>	<b>DSR</b>	<b>VOLUME CONTROL DAMPERS</b>					
	16.13	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.	160	Sqm.	5463		874080
<b>18.0</b>		<b>GRILLES, DIFFUSERS AND DAMPERS</b>					
<b>18.1</b>	<b>DSR</b>	<b>ALUMINIUM GRILLES</b>					
18.1.1	16.15	Supplying & fixing of powder coated extruded aluminium Supply Air Grilles in adjustable double louvered with aluminium volume control dampers as per specifications.	3	Sqm.	7132		21396
18.1.2	16.16	Supplying & fixing of powder coated extruded aluminium Return Air Grilles in adjustable double louvered but without volume control dampers complete as required.	10	Sqm.	4065		40650
<b>18.2</b>	<b>NDSR</b>	Supply, installation, testing and balancing of powder coated extruded M.S. Air Grilles with volume control dampers.					
18.2.1		Supply / Exhaust air grilles in double adjustable louvers with volume control dampers.	3	Sqm.	6500		19500
18.2.2		Painted metal jali with M.S. frames for the duct termination in the blower room.	12	Sqm.	1765		21180
<b>18.3</b>	<b>NDSR</b>	<b>LINEAR GRILLES</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Supply, installation,testing and balancing of air linear grilles of powder coated aluminium construction suitable for installation in walls/false ceiling, boxing etc as per specifications and drawings.	40	Sqm.	4706		188240
<b>18.4</b>	<b>NDSR</b>	<b>FRESH AIR GRILLES with bird screen</b>					
18.4.1		Supply, installation,testing and balancing of extruded aluminium fresh air/ Exhaust air grilles with louvers and bird screen as per specification and drawings.	110	Sqm.	6300		693000
18.4.2		Supply, installation, testing, commissioning and balancing of fresh air opening comprising of powder coated extruded aluminium louvers with bird screen, projection with frame and volume control damper with lever mounting arrangement etc. as per specifications and drawings.	15	Sqm.	8300		124500
<b>18.5</b>	<b>NDSR</b>	<b>GRILLE DAMPERS</b>					
18.5.1		Supply, installation and balancing of aluminium construction volume control dampers for linear grills.	10	Sqm.	3797		37970
<b>18.6</b>	<b>DSR</b>	<b>CEILING DIFFUSERS</b>					
18.6.1	16.17	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	300	Sqm.	8686		2605800
18.6.2	16.18	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	300	Sqm.	5619		1685700
<b>19.0</b>		<b>DUCT INSULATION</b>					
<b>19.1</b>	16.23	Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.					
19.1.1	16.23.1	19 mm	19500	Sqm.	831		16204500
<b>19.2</b>	<b>NDSR</b>	<b>DUCT INSULATION (out door application)</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Supplying and fixing of 25mm thick, 40-60 Kg / M <sup>3</sup> density closed cell elastomeric nitrile rubber class 'O' secured with approved adhesive. The insulation shall be finished with 7 mil woven glass cloth with UV resistant paint. (For Out Door application)	1500	Sqm.	1034		1551000
<b>20.0</b>		<b>ACOUSTIC LINING</b>					
<b>20.1</b>	<b>DSR</b>	<b>DUCT ACOUSTIC LINING</b>					
	16.21	Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m <sup>3</sup> , with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc. complete as required and as per specifications.	200	Sqm.	551		110200
<b>21.0</b>	<b>NDSR</b>	<b>MONSOON REHEAT ARRANGEMENT</b>					
		Supply, installation, testing & commissioning of monsoon reheating arrangements fixed in ducts/ plenums complete with strip heaters, fixing frame work, insulators, fire protection insulation in duct, controls such as heating thermostats, humidistats etc. The heaters banks shall be controlled by independent thermostats/ humidistats through electro magnetic type contactors and safety thermostats/ geyserstats as specified complete with wiring for interconnections with 1.5 sq.mm copper conductor multi core armoured cable. The heater capacity shall be as per schedule of equipment and specifications, drawing etc.					
21.1		3Kw (1.5 KW x 2 banks)	10	Sets	18447		184470
21.2		6 kw (3 KW x 2 banks)	15	Sets	23882		358230
<b>D)</b>	<b>NDSR</b>	<b>ELECTRICAL</b>					
<b>22.0</b>		<b>AIR- CONDITIONING PANELS</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Supply, installation, testing and commissioning of A/C Panel, Type Tested Assembly (TTA), as per IEC 61439-1&2 cubicle type, totally enclosed, free standing type, dust, 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.					
		<b>Note :</b>					
		i.All ACBs shall have spare contacts					
		ii.All ACBs should have $I_{cw} = I_{cs} = I_{cu} = 50 \text{ KA}$ for 1 sec					
		iii.All MCCBs shall have $I_{cs} = I_{cu} = 100\%$					
		iv.Separate fault indication for O/L, S/C, & E/F to be provided on Panel Door for all outgoing having microprocessor based MCCB					
		v.All indication Lamps will be LED Type .					
		vi.All starters shall be provided with digital ampere meter with suitable CTs, thermal overload relay, inbuilt/separate single phase preventer, contactors, timers, spare NO-NC contacts, push buttons, ON, OFF, TRIP indication (LED Type) and potential free contacts and relay for interlocking to FDA etc. complete as required.					
		vii.100 VA transformer 220v/24v AC for control wiring with 10 no.s 6A SP MCB 10 KA in all AHU panel is also in the scope of supply					
		viii.ACBs shall be BMS compatible with BACnet/ Modbus protocol					
		ix.All outgoing shall be provided with Stop / Manual /Auto selector switch to facilitate operation through BAS with RS 485 communication ports.					
		x.All out going shall be with extended rotary operating mechanism with door interlock, defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. Indicating lamps(LED) with 6A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB.					
		xi) Time delay relay for automatic restart of AHU motor.					
		xii) 24 volts wiring to the 2/3 way valve and thermostats.					
		xiii) wiring for micro switch smoke sensor and solenoid valve, and for stopping the fan when smoke / fire occurred through smoke sensor.					
		xiv) Control wiring with VFD. And in built fans for panel cooling.					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
22.1		<b>Main/ Emergency Air-conditioning MCC in plant room</b>					
		<b>INCOMER</b>					
		<b>2 No. ACB Panels each having following:</b>					
		2000A , 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.					
		R, Y & B Phase indicating lamps (LED type) with 6A control SP MCBs.					
		Indicating lamps (LED Type) with 6A protection MCBs to indicate OPEN, CLOSE, TRIP for ACB.					
		Push button to Close the ACB.					
		1 Digital multifunction meter with suitable CTs.					
		<b>All ACBs should be computer compatible.</b>					
		<b>BUSBARS</b>					
		2500 Amps TPN busbars of aluminium with temperture rise of 40 degree celsius over and above ambient temperture of 45 degree celsius.					
		<b>Bus Coupler</b>					
		<b>1 No. ACB Panels each having following:</b>					
		2000A, 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.					
		Indicating lamps (LED Type) with 6A protection MCBs to indicate OPEN, CLOSE, TRIP for ACB.					
		Push button to CLOSE the ACB.					
		1 Set of Digital Ammeter with ASS and CTs.					
		<b>OUTGOING</b>					
	i	<b>3 Nos. ACB feeder as per following details/ specifications: For Water Chilling Machines</b>					
		1000A , 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.					
		R, Y & B Phase indicating lamps (LED type) with 6A control SP MCBs.					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Indicating lamps (LED Type) with 6A protection MCBs to indicate OPEN, CLOSE, TRIP for ACB.					
		Push button to Close the ACB.					
		1 Digital multifunction meter with suitable CTs.					
	<b>ii</b>	<b>3 Nos. MCCB feeder as per following details/ specifications:</b>					
		200 Amp 415 volts, 50 KA (Ics=Icu), TPN MCCB microprocessor based, with O/L, S/C & E/F protection.					
		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 50 hp condenser water pumps.					
	<b>iii</b>	<b>3 Nos. MCCB feeder as per following details/ specifications:</b>					
		125 Amp 415 volts, 50 KA FP MCCB with thermal magnetic release having 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.					
		3 Phase, fully automatic Star Delta starter suitable for 25 hp Primary chilled water pumps.					
	<b>iv</b>	<b>3 Nos. MCCB feeder as per following details/ specifications:</b>					
		250 Amp 415 volts, 50 KA (Ics=Icu), TPN MCCB microprocessor based, with O/L, S/C & E/F protection.					
		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 suitable for 50 hp Secondary chilled water pumps as bypass starter to VFD starter.					
	<b>v</b>	<b>2 Nos. MCCB feeder as per following details/ specifications:</b>					
		63 Amp 415 volts, 50 KA (Ics=Icu), TPN MCCB microprocessor based, with O/L, S/C & E/F protection.					
		Extended rotary operating mechanism with door interlock, defeat feature and padlock facility. MCCB should be with spreader link and phase barriers.					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		3 Phase, fully automatic Star Delta starter suitable for 15 hp Secondary chilled water pumps as bypass starter to VFD starter.					
	vi	<b>10 Nos. MCCB feeder as per following details/ specifications: For Cooling Towers</b>					
		63 Amp 415 volts, 50 KA FP MCCB with thermal magnetic release having 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.					
		3 Phase, fully automatic Star Delta starter 10/ HP for cooling tower fans and spares as bypass starter to VFD starter.					
	vii	<b>4 Nos. MCCB feeder as per following details/ specifications:</b>					
		32 Amp 415 volts, 50 KA FP MCCB with thermal magnetic release having 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.					
		Indicating lamps (LED Type) with 6A protection MCBs to indicate ON, OFF, TRIP.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					
	viii	<b>2 Nos. MCCB feeder as per following details/ specifications for Heat Pumps:</b>					
		160 Amp 415 volts, 50 KA (Ics=Icu), TPN MCCB with thermal magnetic release having 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.					
		Indicating lamps (LED Type) with 6A protection MCBs to indicate ON, OFF, TRIP.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					
		<b>Complete panel as above</b>	1	Panel	4180000		4180000
<b>22.2</b>		<b>Distribution Panels</b>					



Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		Supply, installation, testing and commissioning of following M.V. cubicle type totally enclosed, wall mounted/Free standing type, powder coated, dust, damp and vermin proof, indoor type Distribution Board/Panel complete with busbars, M.V. danger notice plate, interconnections with suitable capacity aluminium leads/solid aluminium strips/rods, connection of incoming and outgoing cables with thimbles, and having following incoming and outgoing switchgears complete as per technical specification and as required.					
		<b>NOTE</b>					
		i. All MCCBs shall have Ics=Icu=100%					
		ii. 100 VA transformer 220v/24v AC for control wiring with 10 no.s 6A SP MCB 10 KA in all AHU panel is also in the scope of supply					
		iii. All starters shall be provided with digital ampere meter with suitable CTs, thermal overload relay, inbuilt/separate single phase preventer, contactors, Timers, spare NO-NC contacts, Push Buttons ON, OFF, TRIP indication (LED Type) and potential free Contact & relays for interlocking to FDA etc. complete as required.					
		iv. All indication Lamps will be LED Type.					
		v. All incomer and outgoing shall have extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.					
22.2.1		<b>AHP-1</b>					
		<b>INCOMER :</b>					
		1 nos. 100 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C ,E/F protection.					
		R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication.					
		1 No. 0 to 500 V Digital voltmeter with selector switch.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					
		<b>Bus Bar</b>					
		300 A TPN Aluminium bus bar 415V , 50 Hz.					
		<b>OUTGOINGS :</b>					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
	i	3 set - 32 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit Breaker.					
		3 Phase, fully automatic DOL Starter for 5/7.5 HP AHU motor as required.					
	ii	8 set - 16 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit Breaker.					
		3 Phase, fully automatic DOL Starter for 1.5/2/3 HP Ventilation fan motor as required.					
	ii	5 set - 16 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit Breaker.					
		3 Phase, fully automatic DOL Starter for 0.5/1 HP Ventilation fan motor as required.					
		<b>Complete panel as above</b>	4	Panel	110000		440000
22.2.2		<b>AHP-GF, 1F, 2F, 3F, 4F, 5F</b>					
		<b>INCOMER :</b>					
		1 nos. 125 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C ,E/F protection.					
		R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication.					
		1 No. 0 to 500 V Digital voltmeter with selector switch.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					
		<b>Bus Bar</b>					
		300 A TPN Aluminium bus bar 415V , 50 Hz.					
		<b>OUTGOINGS :</b>					
	i	4 Set- 63 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection.					
	ii	2 set - 32 A, 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection.					
	ii	4 set - 16 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit Breaker.					
		<b>Complete panel as above</b>	6	Panel	141000		846000

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
22.2.3		<b>AHP-Terrace Floor</b>					
		<b>INCOMER :</b>					
		1 nos. 400 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C,E/F protection.					
		R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication.					
		1 No. 0 to 500 V Digital voltmeter with selector switch.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					
		<b>Bus Bar</b>					
		500 A TPN Aluminium bus bar 415V , 50 Hz.					
		<b>OUTGOINGS :</b>					
	i	12Set- 63 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection.					
	ii	15 set - 32 A, 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C protection.					
	ii	4 set - 16 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit Breaker.					
	iii	5 set - 32 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit Breaker.					
	iv	12 nos. 3 Phase, fully automatic DOL Starter for 10 HP Ventilation fan motor as required.					
	iv	15 nos. 3 Phase, fully automatic DOL Starter for 7.5 HP Ventilation fan motor as required.					
		<b>Complete panel as above</b>	1	Panel	490000		490000
22.2.4		<b>AHP-Terrace Floor ( For TFAs and fans)</b>					
		<b>INCOMER :</b>					
		1 nos. 400 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C,E/F protection.					
		R,Y&B phase indicating lamp (LED type) with 6A control SP MCB & ON, OFF, TRIP Indication.					
		1 No. 0 to 500 V Digital voltmeter with selector switch.					
		Digital ammeter with selector switch with one set Suitable C.Ts.					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
		<b>Bus Bar</b>					
		500 A TPN Aluminium bus bar 415V , 50 Hz.					
		<b>OUTGOINGS :</b>					
		4 nos. 100 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C, E/F protection.					
	i	12 Set- 63 Amp 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C, E/F protection.					
	ii	8 set - 32 A, 415 volts, 35 KA FP MCCB with thermal magnetic release having variable current settings of O/L, S/C, E/F protection.					
	ii	4 set - 16 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit Breaker.					
	iii	5 set - 32 A, 415 volts, 35 KA C- Curve, Four Pole, Miniature Circuit Breaker.					
	iv	6 nos. 3 Phase, fully automatic DOL Starter for 10 HP Ventilation fan motor as required.					
	iv	6 nos. 3 Phase, fully automatic DOL Starter for 7.5 HP Ventilation fan motor as required.					
		<b>Complete panel as above</b>	1	Panel	423000		423000
<b>22.3</b>		<b>FAN STARTER PANEL - DOL / STAR DELTA STARTER (for Residential Block)</b>					
		Supply, installation, testing & commissioning of Fan Starter Panel with following details :					
		Each Fan Starter Panel shall have :					
	a.	14G CRCA Powder Coated panel enclosure with earthing studs & hinged locable doors. IP55 Protection, suitable for 415V, 3 Phase, 4 wire, 50Hz system.					
	b.	Type-II co-ordination switchgear.					
	c.	Incomer switch shall be TP MPCB of required rating & fault withstand capacity. MPCB shall be with overload & short circuit protection.					
	d.	R,Y,B LED Type Phase indication lamps with control MCB's.					
	e.	Auto / Manual Selector switch & ON & OFF Push buttons for manual operation & terminals for BMS wiring.					
	f.	ON' Indication LED Type lamp with control MCB.					

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
	g.	DOL Starter / Contactor for motors upto 10HP, with 2 NO + 2 NC Auxiliary contacts.					
	h.	Star-Delta starter / contactors / timers for motors beyond 10HP, with 2 NO + 2 NC Auxiliary contacts.					
	i.	All internal control & power wiring.					
	j.	Voltage operated 'SPP' (Single Phasing Preventor) for 10HP & above rating motors.					
	k.	Cast resin CT's (3 Nos. for more than 5HP motors) & single CT for motors upto 5HP for metering purposes. CT's shall be of required class & burden.					
	l.	Digital VA Meter (BMS / Non BMS compatible).					
	m.	Control terminals / linkage / interlocking with fire detection system & fire dampers, so that Fresh air Fan motor trips on receiving a fire signal & normal & smoke exhaust fans start on receiving a fire signal. Manual control shall also be possible through an override.					
		<b>LIFTWELL PRESSURIZATION FAN</b>					
22.3.1		Fan Starter Panel for 7.5 HP Motor	15	Nos.	27583		413745
22.3.2		Fan Starter Panel for 5 HP Motor	10	Nos.	22682		226820
		<b>NOTE- Panel / Starters &amp; Metering shall be BMS Compatible.</b>					
<b>23.0</b>		<b>CABLING</b>					
23.1		Supplying, laying, effecting proper connections, testing & commissioning of following size of 1.1 kv XLPE insulated aluminium conducting armoured cables as per IS 7096 laid underground/cable tray/on surface of wall/hume pipe etc. & termination with brass compression glands as required.					
23.1.1		3.5Cx 400 sq.mm cable	100	Mtr	2600		260000
23.1.2		3.5Cx 300 sq.mm cable	450	Mtr	2285		1028119
23.1.3		3.5Cx 240 sq.mm cable	50	Mtr	1875		93748
23.1.4		3.5C x 185 sq.mm cable	100	Mtr	1480		148017
23.1.5		3.5C x 150 sq.mm cable	100	Mtr	1215		121544
23.1.6		3.5C x 120 sq.mm cable	200	Mtr	1026		205106
23.1.7		3.5C x 95 sq.mm cable	200	Mtr	811		162289

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
23.1.8		3.5C x 70 sq.mm cable	200	Mtr	661		132133
23.1.9		3.5C x 50 sq.mm cable	400	Mtr	473		189222
23.1.10		3.5C x 35 sq.mm cable	100	Mtr	392		39209
23.1.11		4C x 25 sq.mm Cable	100	Mtr	323		32283
23.1.12		4 C X 16 sq. mm. Cable	500	Mtr	265		132347
23.1.13		3 C X10 sq. mm. Cable	2000	Mtr	240		479911
23.1.14		4 C X 6 sq. mm. Cable	300	Mtr	187		56031
23.1.15		4 C X 4 sq. mm. Cable	200	Mtr	160		31912
23.1.16		3C X 6 sq. mm. Cable	500	Mtr	187		93385
23.1.17		3C X 4 sq. mm. Cable	1500	Mtr	160		239337
<b>24.0</b>		<b>CABLE TRAYS</b>					
24.1		Supply & installation of following sizes of perforated MS cable trays including horizontal & vertical bends, reducers, tees, cross members and other accessories as required and duly supported from the ceiling/wall/floor with MS suspenders/supports and including painting etc. as required					
24.1.1		450 mm widthx50 mm deep x2.0 mmthickness	500	Mtr	1329		664500
24.1.2		300 mm widthx50 mm deep x1.6 mmthickness	1000	Mtr	1101		1101000
24.1.3		200 mm widthx50 mm deep x1.6 mmthickness	800	Mtr	880		704000
24.1.4		150 mm widthx50 mm deep x1.6 mmthickness	1000	Mtr	760		760000
<b>25.0</b>		<b>EARTHING</b>					
25.1		Earth pits with GI earth plate of size 600mmx600mmx6mm thick including all accessories , down watering GI pipes 40mm dia and providing masonry enclosure with cover plate having interlocking arrangement and watering pipe etc. with charcoal of or coke and salt) complete as required	8	Set	5000		40000
25.2		Providing & fixing GI earth strip 40mm x 6mm on surface or in recess for earth connections etc. as required	600	Mtr	200		120000

Item No. 1	DSR/ NDSR 2	Description 3	Qty. 4	Unit 5	Rate in Rs. ( in Figure) 6	Rate in Rs. (in words) 7	Amount (Rs.) 8
25.3		Providing and fixing GI earth strip on walls/ trenches complete as per specifications and as required.					
25.3.1		50mmx 5mm	300	Mtr	125		37500
25.3.2		25mm x 3mm	1200	Mtr	100		120000
25.4		Providing and fixing earth wire of complete as per specifications as required.					
25.4.1		6 SWG wire	800	Mtr	75		60000
25.4.2		8 SWG wire	1500	Mtr	60		90000
<b>26.0</b>		<b>CONTROL CABLING</b>					
		Supply, laying, effecting proper connections, testing & commissioning of 1.5 sq.mm. PVC insulated copper multicore cables from AHU's and AC equipments to central control console					
26.1		8 core cable	1500	Mtr	336		503619
26.2		6 core cable	800	Mtr	282		225213
26.3		2 core cable	1000	Mtr	255		255000
		<b>TOTAL FOR HVAC WORKS</b>					<b>148219116</b>

	<b><u>RESIDENTIAL COMPLEX &amp; OPD BLOCK AT AIIMS-KALYANI</u></b>		
	<b><u>SUMMARY SHEET FOR HVAC WORKS</u></b>		
<b>SECTION</b>	<b>DESCRIPTION OF WORK</b>		<b>AMOUNT(Rs.)</b>
<b>A</b>	<b>EQUIPMENTS</b>		<b>68425252</b>
<b>B</b>	<b>PIPING</b>		<b>16794038</b>
<b>C</b>	<b>AIR DISTRIBUTION</b>		<b>47854836</b>
<b>D</b>	<b>ELECTRICAL</b>		<b>15144990</b>
	<b>GRAND TOTAL</b>		<b>148219116</b>



Tender no: HSCC/PMSSY/AIIMS/Kalyani/R-OPD/2017 : Construction of Residential Complex & OPD Block at All India Institute of Medical Sciences, Kalyani (West Bengal)

### Summary Sheet

Note: Percentage should not quoted anywhere else except this summary page

Name of the Bidder						
Sr.No.	Particulars	Cost as per BOQ (in Rs.)	percentage above or below the estimated cost	% above or below in Figures	Percentage above or below in Words	Amount (in Rs.)
1	Civil	21074,20,119.45			Zero	0.00
2	Plumbing	2978,65,303.90			Zero	0.00
3	Firefighting	898,64,740.63			Zero	0.00
4	Electrical	5270,28,228.00			Zero	0.00
5	HVAC	1482,19,115.77			Zero	0.00
	<b>Total Cost</b>	<b>31703,97,507.76</b>				0.00