## BOQ OF ELECTRICAL WORKS OF NEW BRANCH PREMISES OF DEVENDRA NAGAR BRANCH DISTRICT: PANNA, RBO-7, SATNA

S.N	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
	Providing, fixing, testing and commissioning of POINT WIRING of any length for light point/Wall fan point/Exhaust fan point/ Call bell point/ including call bell/ including fan box( if required), 'S' type fan hook etc with 3 X 1.5 Sq.mm(P/N/E) PVC 650V/1100V Grade FRLS WIRE insulated copper conductor single core multi strended wire in 16 SWG(Medium Gauge) stove enamelled rigid steel conduit 20mm/25mm with conduit accessories like bend, junction box etc in concealed/surface manner as per site requirment with suitable Modular Switches/Sockets with plate and Metal/PVC box,Scaddle, angle bracket (if required), 3 plate ceiling rose/bulb holder etc. The floor/roof/wall junction box shuold be of MS(heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw tight and gasket to avoid water/dust insertion. The item includes Circuit wiring from DB to the switch board with 3x2.5 Sq.MM. The above wiring carried out surface or recess in wall/floor/roof should be cutting by cutter/chiesling, replastering, curing, painting with uniform and smooth finish by specilised workman ship and making the surface neat afterwards complete in all respect as per direction of Bank Engg. (EACH Circuit to take NOT MORE than 78 points) The conduit/ Flexible conduit/junction box/metal modular box etc must be joined by gland and check nut at both ends. (each circuit to be controlled by one MCB). The colour code of wire are as under:  Phase- Red, Neutral- Black, Earth-Green Make of Material for items of BOQ:-  (i) Modular Type Switch/socket/step electronic fan regulator, plate, box, TV/telephone, bulb holder/3 pin ceiling rose with all accessories:- Lergand/ Anchor(Roma)/MK/ Crabtree  (ii) MS conduit/PVC conduit with all accessories:- BEC/AKG/NIC/Precision  (iii) PVC insulated copper wire(FR) 650V/1100 V grade:- Finolex/RR cable/				
	Havells				
а	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	124	Nos.		
b	Providing and fixing of point wiring with same above specifications.				
С	Two light points to be controlled by one switch.  Providing and fixing of ceiling fan point controlled as under	12	Nos		
	(i) one 6 amp switch				
<u> </u>	(ii) one no stepped electronic regulator of two module type.	20	Nos.		
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	20	Nos		
e.	Master switch of 16 Amps(Only Grey/Golden/Wooden colour other than white colour) to install alongwith same light switch board to control all light as a master switch ON/OFF in each switch board				
2	6 AMP. POINTS ON SEPARATE BOARD :Supply,fixing,testing and	10	Nos		
	commissioning of 1 No 6 A Multi Socket with 1No. 6 A switch (				
	Modular type ) with cover plate , sheet steel box / PVC modular box etc on surface / concealed manner I/c electrical connections and				
	making good all the damages, painting, cleaning the site etc complete				
	including all accessories as per site requirement and as directed.  (Minimum two and Maximum three points are loop with one circuit as				
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	,	22	Nos		
3	Power Wring (6 / 16 AMP. POWER POINTS). Supply, fixing, testing and commissioning of 1 No 16 A switch & 1 No.six pin 6/16 Amp. Multi Socket (Modular Type) with cover plate, sheet steel box etc on surface / concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as directed. (Maximum two points are loop with one circuit as mentioned below)		Nos		
4	SPECIAL POINTS: ( For Computers ). Supply, fixing, testing and		INUS		
	commissioning of following Modular type switch socket with cover				
	plate, PVC modular box on Surface / sheet steel box in concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as directed.				
	2 Nos. 6 A Switch + 3 Nos. 6 A, 3 pin Socket				
	(Minimum two and Maximum three points are loop with one circuit as mentioned beolw)	22	Nos		
	monioned beolw)		1103	I	1

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5	AC/Geyser Point (Single Phase). Supply, Installation, Testing and				
	commissioning of the surface / recess mounting A.C. / GEYSER				
	power point with the followings :				
	Metra Plug and Socket DBs with one Nos 20 Amp SP MCB, 20 Amp				
	plug and socket with complete Enclosur plate and box 1 set i/c				
	electrical connections and making good all the damages, painting,				
	cleaning the site etc complete including all accessories as required as				
	per site requirement and as directed by Bank Engineer.				
	OR Modular 32A DP 1 way switch with plate & box 1 set. + 25A & 10A				
	twin socket				
	(Only one point is connected with one circuit as mentioned below)	8	Nos		
6	AC Point (Three Phase). Supply, Installation, Testing and	_			
	commissioning of the surface / recess mounting A.C. Cassette power				
	point with the followings :				
	Metal enclose Four way with one Nos 32 Amp FP MCB with				
	complete Enclosur plate and box 1 set i/c electrical connections and				
	making good all the damages, painting, cleaning the site etc complete				
	as required as per site requirement and as directed. (Only one point is				
	connected with one circuit as mentioned below)	4	Nos		
7	CIRCUIT WIRING :(FRLS WIRE)		1103		
<b>'</b>	Supply , installation, testing & commissioning of FRLS circuit wiring				
	measured in numbers with suitable size of MS conduit 1.6 mm thick				
	and 25mm dia. The wiring in MS conduit is as per IS code. The				
	,				
7-	average length of wiring around between(25-30) Mtr.				
/.a	3 X 2.5 sqmm (For UPS Circuit/6 amp Separate Board) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	40	Nac		
7 h	3 X 4.0 sgmm ( For AC/Power Circuit ) in suitable size of 16 SWG	18	Nos		
۱٬.۵	(MMS) steel conduit as per IS code.	14	Nos		
8	UPS OUTGOING & OTHER FRLS WIRING, As Per Requirment.	17	1103		
	3 x 10 Sqmm copper multistreand FRLS wire in 25 mm 16 SGW				
(a)	(MMS) steel conduit.( UPS INPUT DB TO UPS)	4.4	D M4=		
/h)	3 X 1.5 Sgmm copper multistreand FRLS wire in suitable size of 16	11	R.Mtr		
(0)	SWG (MMS) steel conduit.	5	R.Mtr		
(c)	3 X 2.5 Sqmm copper multistreand FRLS wire in suitable size of 16	J	riviu		
(0)	SWG (MMS) steel conduit.	5	R.Mtr		
(d)	3 X 4 Sqmm copper multistreand FRLS wire in suitable size of 16		14.1410		
(ω)	SWG (MMS) steel conduit.	5	R.Mtr		
(e)	5 X 4 Sqmm. Copper multistrend FRLS wire in suitable size of 16				
(e)	5 X 4 Sqmm. Copper multistrend FRLS wire in suitable size of 16 SWG (MMS) steel conduit ( For Cassettee AC)	140	R.Mtr		
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(f)	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides,upper,lower,and Ft.doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp, 25 KA MCCB with thermal magnetic trip unit WITH				
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(f)	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides,upper,lower,and Ft.doors Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator.				
(f)	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides,upper,lower,and Ft.doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with indicator.  (iii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator  (iii) 200 amp bus bar for parallel connection with DG changeover output				
(f)	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides,upper,lower,and Ft.doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with indicator.  (iii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar for parallel connection with DG changeover output  (Note:- Before Placing the Panel order, firstly it passed by the Bank Authority,				
(f)	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides,upper,lower,and Ft.doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with indicator.  (iii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator  (iii) 200 amp bus bar for parallel connection with DG changeover output				
(f)	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides,upper,lower,and Ft.doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with indicator.  (iii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar for parallel connection with DG changeover output  (Note:- Before Placing the Panel order, firstly it passed by the Bank Authority,				
(f)	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides,upper,lower,and Ft.doors Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp, 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator  (iii) 200 amp bus bar for parallel connection with DG changeover output  ( Note:- Before Placing the Panel order, firstly it passed by the Bank Authority, otherwise it will not considered)	50	R.Mtr		
(f) 9 A	SWG (MMS) steel conduit (For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides,upper,lower,and Ft.doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 Nos. FP.200 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (i) 1 Nos-125Amp TP MCCB for main with 200amp bus bar with indicator.  (ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar for parallel connection with DG changeover output  ( Note:- Before Placing the Panel order, firstly it passed by the Bank Authority, otherwise it will not considered)	50	R.Mtr		
(f) 9 A	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated, with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears les shall be equal to 100% lcu.  Sheet 14 swg: panel sides, upper, lower, and Ft. doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp, 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 100 amp bus bar for parallel connection with DG changeover output (Note:- Before Placing the Panel order, firstly it passed by the Bank Authority, otherwise it will not considered)  Supply & Installation of SDP(Surge Protector Devicve) for general protection of main Distribution Board Legrad Make Cat No. 412247 (3P+N), 40 KA, T2-Imax 40KA/pole with complete wiring.	50	R.Mtr		
(f) 9 A	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated, with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears les shall be equal to 100% lcu.  Sheet 14 swg: panel sides, upper, lower, and Ft. doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp. 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator  (iii) 200 amp bus bar for parallel connection with DG changeover output  (Note:- Before Placing the Panel order, firstly it passed by the Bank Authority, otherwise it will not considered)	50	R.Mtr		
(f) 9 A	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated, with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears Ics shall be equal to 100% Icu.  Sheet 14 swg: panel sides, upper, lower, and Ft. doors Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Anritiracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (ii) 1 Nos. FP.200 Amp., 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with indicator.  (iii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator  (iii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator  (iii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicato	1	R.Mtr Nos		
(f) 9 A	SWG (MMS) steel conduit ( For Cassettee AC)  3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16  SWG (MMS) steel conduit.  DISTRIBUTION BOARDS  All MCB to be "C" series  Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated, with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection ) NOTE: All switchgears les shall be equal to 100% lcu.  Sheet 14 swg: panel sides, upper, lower, and Ft. doors  Sheet 16 swg: back side and compartments.  Glande plates: 3 mm thick.  Cable entry: Provision at bottom and upper sides.  The above panel belongs following as under:  A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers.  B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)  (i) 1 No. FP.200 Amp. 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc.  C. OUTGOING SWITCHGEARS:  (ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator  (iii) 200 amp bus bar for parallel connection with DG changeover output  (Note:- Before Placing the Panel order, firstly it passed by the Bank Authority, otherwise it will not considered)	1	R.Mtr		

D	Providing and fixing 6 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 18 Nos. 10/16/32 Amps			
E	SPMCBs. & Complete. Providing and fixing 4 way TPN double door DB for LIGHT /POWER	2	Nos	
	POINTS with 63 Amp TPN, controlling 12 Nos. 16/32 Amps SPMCBs. & Complete.	1	Nos	
F	Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB	2	Nos.	
G	Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with 1x32 Amps DP,			
Н	controlling 6 NO.10 A./16 AMP SPMCB Providing and fixing (4) way TPN double door type For UPS INPUT	2	Nos.	
	with 1x63 Amps TPNand 63 amp DP MCB- 3 Nos & 3 Nos, 32 amp			
10	SP MCB complete (E-lobby/UPS Output) OCCUPANCY SENSORS:-	1	Nos.	
	Supply, installation, testing and commissioning of occupancy sensor surface/recess mounted as per site condition complete with all			
	wiring/conduit/Switch etc complete in all respect as per site condition as required Honeywell Make K5015/16, Siemens/Johnson Control			
11	OR Equivalent as per Bank's approved.  CABLES	4.00	Nos	
- ' '	Supplying, unloading, storage, laying, testing and commissioning of			
	PVC/XLPE insulated (Heavy Duty) Al/Cu conductor armoured cable			
	suitable for working voltage upto and including 1100 V grade, laid and			
	tied on existing overhead cable trays, or laid and tied over MS supports in masonry trenches with copper/al cable lugs, single			
	compression brass cable glands, tapping, crimping etc. as required			
	and all cables run with double run( 2 No.) of GI wire of 8 SWG			
	size.The size of cables are as under:- Make of Material:-			
	(i) PVC/XLPC Armoured cable:- Finolex, Havells, RR cable, CCI(Cable			
	Corp. of India)			
a)	(ii) Cable Termination:- Dowells. Comet 3.5 X 70 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/			
	Main Cable	55	Mtr	
b)	3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/Main cable	75	Mtr	
c)	4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT/UPS)	42	Mtr	
d)	4X 16 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	35	Mtr	
(i)	EARTHING COPPER PLATE EARTH STATION:			
(.)	Preparation of the Plate Earth Station:( As per IS:3043)			
	(a) Excavation of hard rocky earth, soft murrum, hard murrum etc and			
	back filling with black cotton soil for the earth station, the earth pit size is 1000 mm X 1000 mm X 2500 mm.			
	(b) Supply and fixing of Copper Plate of Size 600 mm X 600 mm X 3.0			
	mm thick.			
	(c) Fixing of 50 mm X 6 mm, 3 Mtrs copper strips from Copper Plate to earth terminal including brazing/welding at plate etc.			
	(d) Supply and laying in position 19 mm, 2 Mtrs G.I "B" Class pipe for			
	watering with reducer/funnel with mesh.			
	(e) Supply and Fixing of the following in the earth station. (i) 75 Kg. Charcoal.			
	(ii) 15 Kg. Original Salt.			
	(iii) Black Cotton soil of adequate amount.  (f) Construction of earth pit chamber including necessary brick work			
	concrete, plastering, S/F of C.I Cover of size 12" X 12" complete as			
400	per site requirment.	2	Nos	
(ii)	G.I.PLATE EARTH STATION: Preparation of the Plate Earth Station: (as per IS:3043)			
	(a) Excavation of rocky earth, soft murrum, hard murrum etc and back			
	filling with black cotton soil for the earth station, the earth pit size is			
	1000 mm x 1000 mm x 2500 mm deep. (b) S/F of G.I. plate of size 600 x 600 x 6.0 mm thick.			
	(c) S/F fixing 50 mm x 6 mm, 3 mtrs G.I, strips from G.I.plate to earth			
	terminal including brazing / welding at plate etc.			
1	I/al) Divide billion and I levine a far and after 40 areas 0 and 0 L 1DL alone after			
	(d) Supplying and laying in position 19 mm, 2 mtrs G.I. `B' class pipe for watering with reducer/funnel with mash			
	for watering.with reducer/funnel with mesh.  (e) S/F of the following in the earth station.			
	for watering.with reducer/funnel with mesh. (e) S/F of the following in the earth station. 75 Kg. Charcoal, 15 Kg. Original Salt. and Black Cotton soil of			
	for watering.with reducer/funnel with mesh. (e) S/F of the following in the earth station. 75 Kg. Charcoal, 15 Kg. Original Salt. and Black Cotton soil of adequate amount.			
	for watering.with reducer/funnel with mesh. (e) S/F of the following in the earth station. 75 Kg. Charcoal, 15 Kg. Original Salt. and Black Cotton soil of			

(iii) Providing and fixing Copper/GI strip as per specification compete including connection to earth electrode revetting/sweating/soldering,	
burying 15 cms below in all types of soil/rocks etc complete as requiued.	
.(a) Copper Strip 25 X 5 mm 12 Mtr.	
(b) G.I.Strip 25 X 5 mm 58 Mtr	
(iv) Supply and laying of 10 Sq.mm 650V/1100 V PVC grade insulated copper wire in 15 mm G.I. Pipe ISI grade including all accessories complete as required.(Dedicated Earthing for UPS output DB only)  40 Mtr.	
13 TELEPHONE POINT	
(i) Two pair, 0.61 mm dla. telephone cable tinned copper conductor, P.V.C. insulated and sheathed, fire retarding, anti termite, colour coded twisted pairs and rip cord, Double outlet The length of telephone cable upto 35 meter length or less as per site condition with shutter modular type Telephone Outlets (RJ — 11) wth suitable size MS / PVC modular boxes and it laying, fixing, testing and commissioning in suitable size 20/25 mm dia,16 SWG (Medium Gauge) thickness rigid PVC conduit with conduit accessories like bend/junction box/cover plate/sheet steel/PVC box on surface/ concealed manner i/c electrical connections and making goods all the damages,replastering, painting, cleaning the site etc complete as required as per site condition. The floor/roof/wall junction box shuold be of MS(heavy duty) box of suitable size and covered with Steel finish	
Steel cover sheet by screw tight and gasket to avoid water/dust	
insertion.  Make of Material: Delton/Finelex/PR cable 9 Nos	
(ii) Supplying and fixing of krone telephone tag block on surface/ recess mounted with its accessories suitable for the multi core telephone cable and shall accommodate tin-plated phosphor bronze connectors, the connectors shall splice unskinned cables up to 0.61 mm dia and shall be terminate both incoming and out going lines, the tag blocks shall be mounted inside, water proof box and locking arrangement and shall be fully accessible.	
(A) 20 Pair tag block 1 Nos (iii) Supply, installation, testing and commissioning of the following size	
jelly filled armoured tehephone cable.	
20 pair	
Providing, fixing, testing and commissioning of all nodes of four pair UTP CAT 6 LAN cables length upto 30 meter length or less as per site conditionin suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like bend/junction box/ fan box etc on surface/recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site condition and as directed as required. Junction box shuld be covered with Stainless steel plate with screw with gasket for protection of water/dust. Providing, fixing, testing and commissioning of modular type Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories with insulation displacement connectors etc suitable for CAT 6 UTP cabling with RJ-45 socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/circuit/cable from both load and source end to be marked with ferrules.)  Make of Material:-  (i) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories:- D-Link, Legrand	
b Providing and fixing Patch Panels 24 port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make)  1 Nos	
c Providing and fixing Patch Panels 16 port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make)	
d Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete.  9 U wall mounted RACK  1 Nos	
e Providing and fixing of flowing factory fabricated Patch cords.  (UTP/CAT 6 complte with connector on both side.)	
2 6 4 10 1	
i)   for 1 Mt. long   12   Nos.	

f	,			
	Providing, fixing,testing and commissioning of four pair CAT 6 LAN			
	cable in suitable size of 20/25mm PVC medium gauge 16SWG			
	conduit including all accessories to interconnect the switches from			
1	different location.	155	Mtr	
15	TV POINT:-Supply, installation, testing and commissionig of TV			
	point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC			
	Conduit with all accessories complete in all respect	2	Nos	
16	Supply and installation of Vinyl sticker for on Electrical DBs like, "		1103	
10	Switch Off at Night", Switch Off For Safety, etc	10	Noo	
47		10	Nos	
17	Making & Providing of 3 sets of Asbuilt Drawing with coloured print for			
	entier Electrical work (Power/UPS/Light/Data/Telephone/AC etc.) as			
	advised by the Bank's Authority.	1	Lum sum	
	Description of light /fan fixture			
18	LED LUMINARES:- 2' x2' (FULL GLOW TYPE)			
	LED light fittings (600 X600mm) dimension suitable for grid/gypsum			
	ceiling complete with its electrionic driver as required per instruction of			
	Bank's Model No are as under:-			
	PHILIPS:- RC380B G2 LED 35S-6500 PSU OD WH LED			
	(FULLGLOW)			
	WIPRO:- CRCO1ORO 38 HP57			
	HAVELLS:- LHECDIL7IL1W036 (Edge- Lit)			
	CG:- LCTAR3-40-CDL	40	Noo	
10	LED DOWNLIGHTER:	40	Nos	
19				
	15 Watt, recessed mounted circular down lighter , 6" dimension with			
	complete its electronic driver are as under:-			
	PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU			
	WIPRO:- IRIS LED LD 71-121-XXX-50-XX			
	HAVELLS:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH)			
	CG:- LC DD-15-CDL,	48	Nos	
20	LED DOWNLIGHTER:SURFACE MOUNTED FOR FRONT			
	SIDE(EXTERNAL)			
	15 Watt, surface mounted circular/square down lighter , 6" dimension			
	with complete its electronic driver are as under:-			
	PHILIPS, WIPRO, HAVELLS, CG	0	NI	
		8	Nos	
21	LED Spot Light, 3 Watt, 2/3"(Inches) size as per site requirment.			
	PHILIPS, WIPRO, HAVELLS, CG	8	Nos	
22	LED COVE/ STRIP LIGHT WITH ITS ELECTRONIC DRIVER( BLUE			
	COLOUR):- Supply, installation, testing and commissioning of bright			
	LED strip light with its electronic driver complete as required.			
	PHILIPS, WIPRO, HAVELLS, CG			
		160	Mtr	
23	Providing & fixing of "Digital Clock" /Digital Panel indicating			
	Time, Day, Date, Temperature at outside of big size,(Ajanta - OLC-			
	1070) as suitable over the facade as advised by the Bank with			
	standard power back up. Make:- Ajanta, Titan	1	Nos	
24	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20	<u> </u>	1103	
	Watt make: PHILIPS/WIPRO/HAVELLS/CG	20	Nos	
25	External Street LED Light- Providing & Fixing of 30 watt LED light	20	1105	
25				
	fixture, pressure die cast aluminium housing, heat resistant glass, IP	8	Nos	
		O	1103	
	65 protection & better optics for uniform distribution. PHILIPS, WIPRO,	O	1403	
- 00	HAVELLS, CG		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W)		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance	0	1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic	0	1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including	0	1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.),		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.),		1403	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50	20	Nos	
26	HAVELLS, CG CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.			
	HAVELLS, CG  CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Each, White Make:CG/USHA/ ORIENT/HAVELLS			
	HAVELLS, CG  CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Each, White Make:CG/USHA/ ORIENT/HAVELLS  EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the			
	HAVELLS, CG  CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Each, White Make:CG/USHA/ ORIENT/HAVELLS  EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously rated, capacitor start			
	HAVELLS, CG  CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Each, White Make:CG/USHA/ ORIENT/HAVELLS  EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double			
	HAVELLS, CG  CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Each, White Make:CG/USHA/ ORIENT/HAVELLS  EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wounded, A & E class insulation, dynamically			
	HAVELLS, CG  CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Each, White Make:CG/USHA/ ORIENT/HAVELLS  EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wounded, A & E class insulation, dynamically balanced, below 40 db sound level etc, front cover with grill/gravity			
	HAVELLS, CG  CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Each, White Make:CG/USHA/ ORIENT/HAVELLS  EXHAUST FAN:-  Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wounded, A & E class insulation, dynamically balanced, below 40 db sound level etc, front cover with grill/gravity louver for protection purpose with 12 mm plywood complete in all			
	HAVELLS, CG  CEILING FAN: Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS: 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Each, White Make:CG/USHA/ ORIENT/HAVELLS  EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wounded, A & E class insulation, dynamically balanced, below 40 db sound level etc, front cover with grill/gravity			

28	WALL FAN:-(Only Metallic Body)			
	Oscillating wall fan with regulator i/c coonections etc complete as			
	required as per approved make, Sweep 400/450 mm, RPM 1300			
	make are as under:			
	CG/USHA/ ORIENT/HAVELLS	1	Nos	
29	(A) TOTAL ELECTRICAL			