Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 1000KVA (TYPE-1) Compact Substation.

(A) Technical Perticulars for Unitized Substation Enclosure :		
Sr.	Description	Details
NO	Description	Details
1	General Description	
1.1	Manufacturer's Name	***
1.2	Rated maximum power of substation kVA	1000kVA
1.3	Rated Ingress protection class of Enclosure	IP 55
1.4	Installation	Outdoor type
2	Dimensions	
2.1	Total Overall dimensions	
Α	Length	***
В	Width	***
С	Height	***
2.2	H. T . Switchgear Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.3	Transformer Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.4	L.T. Panel Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.5	Overall Weigh in KG	***
2.6	Painting	Powder Coating

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 1000KVA (TYPE-1) Compact Substation.

	(B) Technical Particulars of 11kv Vaccume circuit breaker		
1	Make	ABB / SIEMENS / SCHNEIDER	
	Tuna	Vaccum circuit Breaker with	
2	Туре	1 # 800A Incoming cum outgoing feeder	
3	Capacity/ Rating	11 kv , 630/800A	
4	Rated short time withstand current kA rms/ 1 sec	18.37kA rms	
5	Voltage	11KV+/- 10%	
6	Ambient Temp	45 deg. C	
7	Atmosphere	Normal	
8	Duty type	Contineous	
9	Frequency	50Hz. +/- 3%	
10	No of Phases	3	
11	System fault level	350MVA	
12	Max. system voltage	12KV	
13	Making capacity	46 kA (peak)	
14	Cable entry (I/C & O/G)	Bottom	
15	Cable size	1#11kV, 3c x 300 sq.mm	
15		XLPE AL armoured cable (UE)	
16	Close & spring charging arrangement	Motorised with Inbuilt BATTERY & BATTERY	
10	Close & spring charging arrangement	CHARGER	
	space heater with thermostate with switch	No any single phase AC power will be provided	
17		by client. All arrangemet to be provided by	
'		vendor through Single Phase Auxiliary	
		Trasformer of 1KVA.	
18	Self powered O/L & E/F relay with CT's	To be provided	
19	Mechnical position indicator		
	ON	To be provided	
	OFF	To be provided	
	EARTHED	To be provided	
20	Motoring on HT cido with CT DT units	Load manager	
20	Metering on HT side with CT-PT units	with RS 485 port (in incomer only)	
21	Cubical lamp with Lamp in each compartment	CFL lamp with switch	

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 1000KVA (TYPE-1) Compact Substation.

Sr. No.	Description	Details
	IS to be followed	AS PER ECBC FOR DRY TYPE
_		RAYCHEM / SCHNIEDER
1	Make	/ ABB / VOLTAMP
2	Rated output in KVA	1000 KVA
3	Туре	Cast Resin Dry Type
4	Rating / duty	Continuous
5	Vector group	DYN11
6	No of windings	2
7	Material of winding	Copper
8	% Impedence voltage	***
9	HV Insulation Level	***
10	Rated withstand voltage at power frequency of	20 107
10	50 Hz kV rms	28 kV
11	Rated Impulse withstand Voltage kV peak	75 kV
12	Insulator used for HV busbar support shall be of	25 mm /W/
12	Creepage distance.	25mm/kV
13	Winding insulation	Class ' F '
14	Method of earthing	Solid
1.5	Tan shangare 9 Tannings	OFF Load tap changers with tapping range
15	Tap changers & Tappings	of + 5% to - 10% in step of 2.5%.
16	Temperature rise At 45C ambient of wdg by	FF dagrae C
16	resistance method.	55 degree C
17	Winding Temperature indicator with A & T	Deguined
17	contact	Required
	OTI with A & T Contact	NA
	Buchholze Realy Contact	NA
	MOLG with A & T Contact	NA
	OLTC & RTCC with AVR Panel	DRY TYPE - Required
	Marshalling box	Required
	Rated Voltage (kV)	·
18	H.V.	11 kV
	L.V.	0.415kV
	Rated Current (Amps)	
19	H.V.	***
	L.V.	***
30	Transformer losses	
20	Maximum Total Losses	Dry type:- as per ECBC
21	Maximum efficiency (%)	
	100 % Load	***
	75 % Load	***
	50 % Load	***
	% Load at which maximum efficiency occures	

Document:- Technical Specification for 1000KVA (TYPE-1) Compact Substation.

	Regulation at	
22	Unity Power factor	***
	0.9 Power Factor	***
	0.85 Power factor	***
	Maximum current density	
23	HT Wdg Amp / Sq mm	***
	LT Wdg Amp / Sq mm	***
	Maximum Flux Density	
24	At rated voltage	***
	At 110% rated voltage	***
	Magnetic current at Rated voltage & Frequency	
25	When Excited From L.T side.	***
	When Excited from L.T side 110% Rated voltage	***
26	Noise level in DB at 1 mtr distance	***

(D) TECHNICAL SPECIFICATION FOR LT COMPARTMENT AS PER SINGLE LINE DIAGRAM

	(E) Drawing approval, inspection & commissioning		
		3 sets of Hard copy for approval &	
1	Drawings & Approval	comments then 4 sets of final hard copy	
		after approval.	
	Tests & inspection	Visual inspection with Routine tests (with photo	
2		copy of ready job and internal test reports) like	
		HV,Megger, Tests For Losses,etc	
	Scope	The scope of work shall cover the Design,	
		Manufacture, Supply, Testing and Pre-	
		Commissioning tests at site & final	
3		commissioning of Compact substation suitable	
		for outdoor installation meeting the	
		requirements specified in the Technical data	
		sheet.	

IMPORTANT :-

- The vendor will depute their engineer at site at the time of installation, testing & commissioning for at least three times.
- All precommissioning tests shall be done by supplier/vendor at site prior to commissioning.
- All the charges for inspection / testing shall be borne by the contractor including travel & hotel stay for Consultant & Client's engineers.
- Minimum 750mm clear space to be provided from bottom of gland plate to spreader contact terminal of HT side & LT sideat ACB/MCCB/MCB/terminal for outging/incoming Cable termination.

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 1000KVA (TYPE-2) Compact Substation.

(A) Technical Perticulars for Unitized Substation Enclosure :		
Sr.	Description	Details
NO	Description	Details
1	General Description	
1.1	Manufacturer's Name	***
1.2	Rated maximum power of substation kVA	1000kVA
1.3	Rated Ingress protection class of Enclosure	IP 55
1.4	Installation	Outdoor type
2	Dimensions	
2.1	Total Overall dimensions	
Α	Length	***
В	Width	***
С	Height	***
2.2	H. T . Switchgear Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.3	Transformer Compartment	
Α	Length	***
В	Width	***
С	Height	***
		_
2.4	L.T. Panel Compartment	-
Α	Length	***
В	Width	***
С	Height	***
2.5	Overall Weigh in KG	***
2.6	Painting	Powder Coating

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 1000KVA (TYPE-2) Compact Substation.

	(B) Technical Particulars of 11kv	Vaccume circuit breaker
1	Make	ABB / SIEMENS / SCHNEIDER
		RMU with
	Type	1 # Incoming 800A load brack switch and 2 #
2	Туре	VCB out going feeder. (1#400A VCB & 1#800A
		VCB).
3	Capacity/ Rating	11 kv , 630/800A
4	Rated short time withstand current kA rms/ 1	10.27kA www.c
4	sec	18.37kA rms
5	Voltage	11KV+/- 10%
6	Ambient Temp	45 deg. C
7	Atmosphere	Normal
8	Duty type	Contineous
9	Frequency	50Hz. +/- 3%
10	No of Phases	3
11	System fault level	350MVA
12	Max. system voltage	12KV
13	Making capacity	46 kA (peak)
14	Cable entry (I/C & O/G)	Bottom
15	Cable size	1#11kV, 3c x 300 sq.mm
13	Cable Size	XLPE AL armoured cable (UE)
16	Close & spring charging arrangement	Motorised with Inbuilt BATTERY & BATTERY
10		CHARGER
	space heater with thermostate with switch	No any single phase AC power will be provided
17		by client. All arrangemet to be provided by
		vendor through Single Phase Auxiliary
		Trasformer of 1KVA.
18	Self powered O/L & E/F relay with CT's	To be provided
19	Mechnical position indicator	
	ON	To be provided
	OFF	To be provided
	EARTHED	To be provided
20	Metering on HT side with CT-PT units	Load manager
		with RS 485 port (in incomer only)
21	Cubical lamp with Lamp in each compartment	CFL lamp with switch

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 1000KVA (TYPE-2) Compact Substation.

Sr. No.	(C) Technical Particulars of Distribution	Details
	IS to be followed	AS PER ECBC FOR DRY TYPE
		RAYCHEM / SCHNIEDER
1	Make	/ ABB / VOLTAMP
2	Rated output in KVA	1000 KVA
3	Туре	Cast Resin Dry Type
4	Rating / duty	Continuous
5	Vector group	DYN11
6	No of windings	2
7	Material of winding	Copper
8	% Impedence voltage	***
9	HV Insulation Level	***
10	Rated withstand voltage at power frequency of	20 147
10	50 Hz kV rms	28 kV
11	Rated Impulse withstand Voltage kV peak	75 kV
12	Insulator used for HV busbar support shall be of	25.00.00 /14/
12	Creepage distance.	25mm/kV
13	Winding insulation	Class ' F '
14	Method of earthing	Solid
1.5		OFF Load tap changers with tapping range
15	Tap changers & Tappings	of + 5% to - 10% in step of 2.5%.
16	Temperature rise At 45C ambient of wdg by	55 degree C
10	resistance method.	33 degree C
17	Winding Temperature indicator with A & T	Paguirad
17	contact	Required
	OTI with A & T Contact	NA
	Buchholze Realy Contact	NA
	MOLG with A & T Contact	NA
	OLTC & RTCC with AVR Panel	DRY TYPE - Required
	Marshalling box	Required
	Rated Voltage (kV)	
18	H.V.	11 kV
	L.V.	0.415kV
	Rated Current (Amps)	
19	H.V.	***
	L.V.	***
20	Transformer losses	
	Maximum Total Losses	Dry type:- as per ECBC
21	Maximum efficiency (%)	
	100 % Load	***
	75 % Load	***
	50 % Load	***
	% Load at which maximum efficiency occures	

Document:- Technical Specification for 1000KVA (TYPE-2) Compact Substation.

	Regulation at	
22	Unity Power factor	***
	0.9 Power Factor	***
	0.85 Power factor	***
	Maximum current density	
23	HT Wdg Amp / Sq mm	***
	LT Wdg Amp / Sq mm	***
	Maximum Flux Density	
24	At rated voltage	***
	At 110% rated voltage	***
	Magnetic current at Rated voltage & Frequency	
25	When Excited From L.T side.	***
	When Excited from L.T side 110% Rated voltage	***
26	Noise level in DB at 1 mtr distance	***

(D) TECHNICAL SPECIFICATION FOR LT COMPARTMENT AS PER SINGLE LINE DIAGRAM

	(E) Drawing approval, inspection & commissioning		
		3 sets of Hard copy for approval &	
1	Drawings & Approval	comments then 4 sets of final hard copy	
		after approval.	
		Visual inspection with Routine tests (with photo	
2	Tests & inspection	copy of ready job and internal test reports) like	
		HV, Megger, Tests For Losses, etc	
		The scope of work shall cover the Design,	
		Manufacture, Supply, Testing and Pre-	
		Commissioning tests at site & final	
3	Scope	commissioning of Compact substation suitable	
		for outdoor installation meeting the	
		requirements specified in the Technical data	
		sheet.	

IMPORTANT:-

- The vendor will depute their engineer at site at the time of installation, testing & commissioning for at least three times.
- All precommissioning tests shall be done by supplier/vendor at site prior to commissioning.
- All the charges for inspection / testing shall be borne by the contractor including travel & hotel stay for Consultant & Client's engineers.
- Minimum 750mm clear space to be provided from bottom of gland plate to spreader contact terminal of HT side & LT sideat ACB/MCB/terminal for outging/incoming Cable termination.

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 2000KVA(TYPE-1) Compact Substation.

(A) Technical Perticulars for Unitized Substation Enclosure :		
Sr.	Description	Details
NO	·	Details
1	General Description	
1.1	Manufacturer's Name	***
1.2	Rated maximum power of substation kVA	2000kVA
1.3	Rated Ingress protection class of Enclosure	IP 55
1.4	Installation	Outdoor type
2	Dimensions	
2.1	Total Overall dimensions	
Α	Length	***
В	Width	***
С	Height	***
2.2	H. T . Switchgear Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.3	Transformer Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.4	L.T. Panel Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.5	Overall Weigh in KG	***
2.6	Painting	Powder Coating

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 2000KVA(TYPE-1) Compact Substation.

	(B) Technical Particulars of 11kv	Vaccume circuit breaker
1	Make	ABB / SIEMENS / SCHNEIDER
_		Vaccum circuit Breaker with
2	Туре	1 # 800A Incoming cum outgoing feeder
3	Capacity/ Rating	11 kv , 630/800A
4	Rated short time withstand current kA rms/ 1	18.37kA rms
4	sec	16.57KA 11115
5	Voltage	11KV+/- 10%
6	Ambient Temp	45 deg. C
7	Atmosphere	Normal
8	Duty type	Contineous
9	Frequency	50Hz. +/- 3%
10	No of Phases	3
11	System fault level	350MVA
12	Max. system voltage	12KV
13	Making capacity	46 kA (peak)
14	Cable entry (I/C & O/G)	Bottom
15	Cable size	1#11kV, 3c x 300 sq.mm
13		XLPE AL armoured cable (UE)
16	Close & spring charging arrangement	Motorised with Inbuilt BATTERY & BATTERY
	close & spring charging arrangement	CHARGER
	space heater with thermostate with switch	No any single phase AC power will be provided
17		by client. All arrangemet to be provided by
		vendor through Single Phase Auxiliary
		Trasformer of 1KVA.
18	Self powered O/L & E/F relay with CT's	To be provided
19	Mechnical position indicator	
	ON	To be provided
	OFF	To be provided
	EARTHED	To be provided
20	Metering on HT side with CT-PT units	Load manager
		with RS 485 port (in incomer only)
21	Cubical lamp with Lamp in each compartment	CFL lamp with switch

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 2000KVA(TYPE-1) Compact Substation.

Sr. No.	Description	Details
	IS to be followed	AS PER ECBC FOR DRY TYPE
1		RAYCHEM / SCHNIEDER
	Make	/ ABB / VOLTAMP
2	Rated output in KVA	2000 KVA
3	Туре	Cast Resin Dry Type
4	Rating / duty	Continuous
5	Vector group	DYN11
6	No of windings	2
7	Material of winding	Copper
8	% Impedence voltage	***
9	HV Insulation Level	***
10	Rated withstand voltage at power frequency of	20 147
10	50 Hz kV rms	28 kV
11	Rated Impulse withstand Voltage kV peak	75 kV
12	Insulator used for HV busbar support shall be of	25.00.00 /14/
12	Creepage distance.	25mm/kV
13	Winding insulation	Class ' F '
14	Method of earthing	Solid
15		OFF Load tap changers with tapping range
15	Tap changers & Tappings	of + 5% to - 10% in step of 2.5%.
16	Temperature rise At 45C ambient of wdg by	55 degree C
10	resistance method.	33 degree C
17	Winding Temperature indicator with A & T	Doguirad
17	contact	Required
	OTI with A & T Contact	NA
	Buchholze Realy Contact	NA
	MOLG with A & T Contact	NA
	OLTC & RTCC with AVR Panel	DRY TYPE - Required
	Marshalling box	Required
	Rated Voltage (kV)	
18	H.V.	11 kV
	L.V.	0.415kV
	Rated Current (Amps)	
19	H.V.	***
	L.V.	***
20	Transformer losses	
	Maximum Total Losses	Dry type:- as per ECBC
	Maximum efficiency (%)	
	100 % Load	***
21	75 % Load	***
	50 % Load	***
	% Load at which maximum efficiency occures	

Document:- Technical Specification for 2000KVA(TYPE-1) Compact Substation.

22	Regulation at	
	Unity Power factor	***
	0.9 Power Factor	***
	0.85 Power factor	***
	Maximum current density	
23	HT Wdg Amp / Sq mm	***
	LT Wdg Amp / Sq mm	***
	Maximum Flux Density	
24	At rated voltage	***
	At 110% rated voltage	***
25	Magnetic current at Rated voltage & Frequency	
	When Excited From L.T side.	***
	When Excited from L.T side 110% Rated voltage	***
26	Noise level in DB at 1 mtr distance	***

(D) TECHNICAL SPECIFICATION FOR LT COMPARTMENT AS PER SINGLE LINE DIAGRAM

	(E) Drawing approval, inspection & commissioning		
		3 sets of Hard copy for approval &	
1	Drawings & Approval	comments then 4 sets of final hard copy	
		after approval.	
	Tests & inspection	Visual inspection with Routine tests (with photo	
2		copy of ready job and internal test reports) like	
		HV, Megger, Tests For Losses, etc	
		The scope of work shall cover the Design,	
		Manufacture, Supply, Testing and Pre-	
3	Scope	Commissioning tests at site & final	
		commissioning of Compact substation suitable	
		for outdoor installation meeting the	
		requirements specified in the Technical data	
		sheet.	

IMPORTANT:-

- The vendor will depute their engineer at site at the time of installation, testing & commissioning for at least three times.
- All precommissioning tests shall be done by supplier/vendor at site prior to commissioning.
- All the charges for inspection / testing shall be borne by the contractor including travel & hotel stay for Consultant & Client's engineers.
- Minimum 750mm clear space to be provided from bottom of gland plate to spreader contact terminal of HT side & LT sideat ACB/MCB/terminal for outging/incoming Cable termination.

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 2000KVA (TYPE-2) Compact Substation.

(A) Technical Perticulars for Unitized Substation Enclosure :		
Sr.	Description	Details
NO	Description	Details
1	General Description	
1.1	Manufacturer's Name	***
1.2	Rated maximum power of substation kVA	2000kVA
1.3	Rated Ingress protection class of Enclosure	IP 55
1.4	Installation	Outdoor type
2	Dimensions	
2.1	Total Overall dimensions	
Α	Length	***
В	Width	***
С	Height	***
2.2	H. T . Switchgear Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.3	Transformer Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.4	L.T. Panel Compartment	
Α	Length	***
В	Width	***
С	Height	***
2.5	Overall Weigh in KG	***
2.6	Painting	Powder Coating

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 2000KVA (TYPE-2) Compact Substation.

	(B) Technical Particulars of 11kv	Vaccume circuit breaker
1	Make	ABB / SIEMENS / SCHNEIDER
2		RMU with
	Type	1 # Incoming 800A load brack switch and 2 #
	Туре	VCB out going feeder. (1#400A VCB & 1#800A
		VCB).
3	Capacity/ Rating	11 kv , 630/800A
4	Rated short time withstand current kA rms/ 1	10.27kA www.c
4	sec	18.37kA rms
5	Voltage	11KV+/- 10%
6	Ambient Temp	45 deg. C
7	Atmosphere	Normal
8	Duty type	Contineous
9	Frequency	50Hz. +/- 3%
10	No of Phases	3
11	System fault level	350MVA
12	Max. system voltage	12KV
13	Making capacity	46 kA (peak)
14	Cable entry (I/C & O/G)	Bottom
15	Cable size	1#11kV, 3c x 300 sq.mm
13	Cable Size	XLPE AL armoured cable (UE)
16	Close & spring charging arrangement	Motorised with Inbuilt BATTERY & BATTERY
10	Close & spring charging arrangement	CHARGER
	space heater with thermostate with switch	No any single phase AC power will be provided
17		by client. All arrangemet to be provided by
1/		vendor through Single Phase Auxiliary
		Trasformer of 1KVA.
18	Self powered O/L & E/F relay with CT's	To be provided
19	Mechnical position indicator	
	ON	To be provided
	OFF	To be provided
	EARTHED	To be provided
20	Metering on HT side with CT-PT units	Load manager
		with RS 485 port (in incomer only)
21	Cubical lamp with Lamp in each compartment	CFL lamp with switch

Project : - Gujarat University, at Ahmedabad.

Document:- Technical Specification for 2000KVA (TYPE-2) Compact Substation.

Sr. No.	(C) Technical Particulars of Distribution	Details
	IS to be followed	AS PER ECBC FOR DRY TYPE
1		RAYCHEM / SCHNIEDER
	Make	/ ABB / VOLTAMP
2	Rated output in KVA	2000 KVA
3	Туре	Cast Resin Dry Type
4	Rating / duty	Continuous
5	Vector group	DYN11
6	No of windings	2
7	Material of winding	Copper
8	% Impedence voltage	***
9	HV Insulation Level	***
10	Rated withstand voltage at power frequency of	20 147
10	50 Hz kV rms	28 kV
11	Rated Impulse withstand Voltage kV peak	75 kV
12	Insulator used for HV busbar support shall be of	25 may 1141
12	Creepage distance.	25mm/kV
13	Winding insulation	Class ' F '
14	Method of earthing	Solid
1.5		OFF Load tap changers with tapping range
15	Tap changers & Tappings	of + 5% to - 10% in step of 2.5%.
16	Temperature rise At 45C ambient of wdg by	55 degree C
10	resistance method.	33 degree C
17	Winding Temperature indicator with A & T	Poguirod
17	contact	Required
	OTI with A & T Contact	NA
	Buchholze Realy Contact	NA
	MOLG with A & T Contact	NA
	OLTC & RTCC with AVR Panel	DRY TYPE - Required
	Marshalling box	Required
	Rated Voltage (kV)	
18	H.V.	11 kV
	L.V.	0.415kV
	Rated Current (Amps)	
19	H.V.	***
	L.V.	***
20	Transformer losses	
	Maximum Total Losses	Dry type:- as per ECBC
	Maximum efficiency (%)	
	100 % Load	***
	75 % Load	***
	50 % Load	***
	% Load at which maximum efficiency occures	

Document:- Technical Specification for 2000KVA (TYPE-2) Compact Substation.

22	Regulation at	
	Unity Power factor	***
	0.9 Power Factor	***
	0.85 Power factor	***
	Maximum current density	
23	HT Wdg Amp / Sq mm	***
	LT Wdg Amp / Sq mm	***
	Maximum Flux Density	
24	At rated voltage	***
	At 110% rated voltage	***
	Magnetic current at Rated voltage & Frequency	
25	When Excited From L.T side.	***
	When Excited from L.T side 110% Rated voltage	***
26	Noise level in DB at 1 mtr distance	***

(D) TECHNICAL SPECIFICATION FOR LT COMPARTMENT AS PER SINGLE LINE DIAGRAM

	(E) Drawing approval, inspection & commissioning		
		3 sets of Hard copy for approval &	
1	Drawings & Approval	comments then 4 sets of final hard copy	
		after approval.	
	Tests & inspection	Visual inspection with Routine tests (with photo	
2		copy of ready job and internal test reports) like	
		HV, Megger, Tests For Losses, etc	
		The scope of work shall cover the Design,	
		Manufacture, Supply, Testing and Pre-	
3	Scope	Commissioning tests at site & final	
		commissioning of Compact substation suitable	
		for outdoor installation meeting the	
		requirements specified in the Technical data	
		sheet.	

IMPORTANT:-

- The vendor will depute their engineer at site at the time of installation, testing & commissioning for at least three times.
- All precommissioning tests shall be done by supplier/vendor at site prior to commissioning.
- All the charges for inspection / testing shall be borne by the contractor including travel & hotel stay for Consultant & Client's engineers.
- Minimum 750mm clear space to be provided from bottom of gland plate to spreader contact terminal of HT side & LT sideat ACB/MCCB/MCB/terminal for outging/incoming Cable termination.