



POWER SUPPLY CONNECTION / CS3 APPLICATION PROCEDURES & GUIDELINES FOR NON-CONTESTABLE CONSUMER INSTALLATION

NOTE:

This application guide is suitable for applying supply connection CS3 for temporary supply and permanent supply (below and above 45KVA) for non-contestable consumer type. Applicant shall read through all sections of this application guide and follow the instructions provided.

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Page 2 of 16

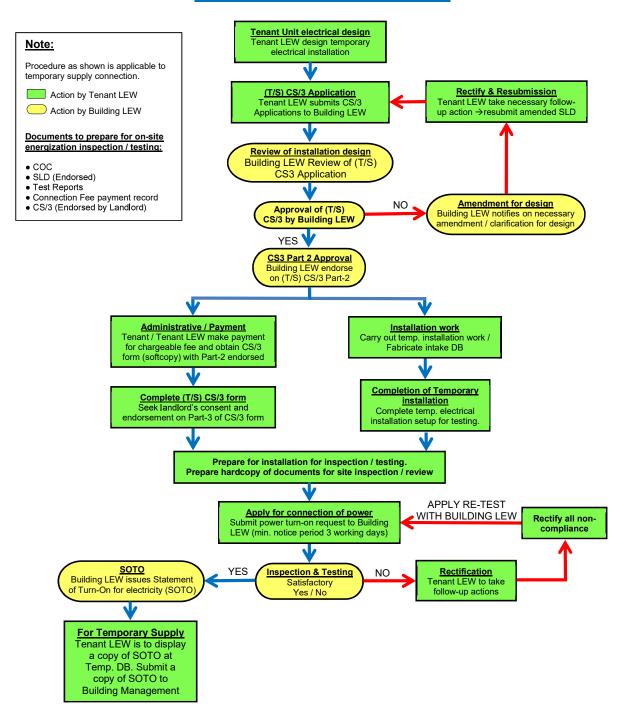
Conte	ent	Page No.
1.	Procedure (Flow-chart) for application of electricity connection for temporary supply usage for construction / renovation work for non-contestable consumer	3
2.	Procedure (Flow-chart) for application of electricity connection for permanent Supply for non-contestable consumer (Below 45KVA)	4
3.	Procedure (Flow-chart) for application of electricity connection for permanent Supply for non-contestable consumer (Above 45KVA)	5
4.	Guidelines for Application for Connection of Electricity Supply by Tenants (For Contestable consumers)	6
5.	Form-A: CS3 Application Information	12
6.	Form-B: CS3 Form - Request of electricity by Tenants (For temporary supply application use)	14
7.	Appendixes	15
	Appendix-1: Compliance guidelines for SLD Submission Sample of 63A DB / suitable guide for up to 100A DB	
	Appendix-2: Compliance guidelines for SLD Submission Sample of 150A DB / suitable guide for DB > 100A	





PROCEDURE (FLOW-CHART) FOR APPLICATION OF ELECTRICITY CONNECTION FOR TEMPORARY SUPPLY USAGE FOR CONSTRUCTION / RENOVATION WORK

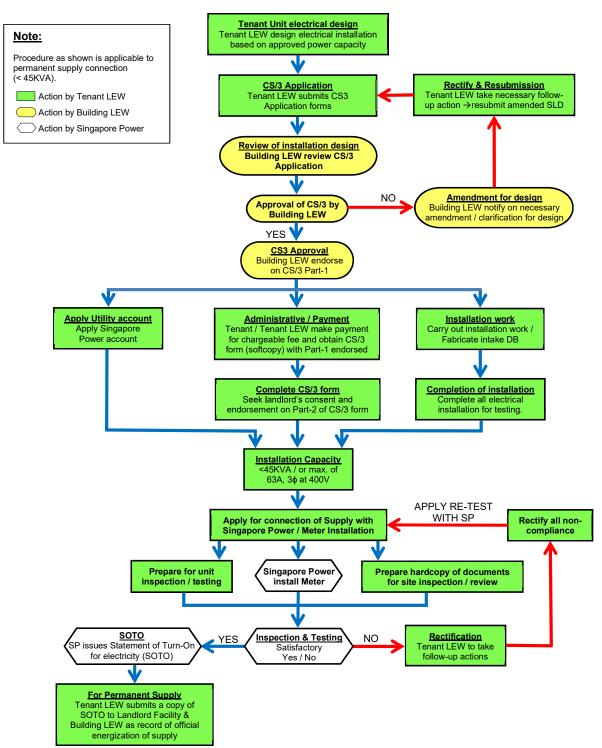
FOR NON CONTESTABLE CONSUMER







PROCEDURE (FLOW-CHART) FOR APPLICATION OF ELECTRICITY CONNECTION FOR PERMANENT SUPPLY FOR NON-CONTESTABLE CONSUMER (BELOW 45KVA)

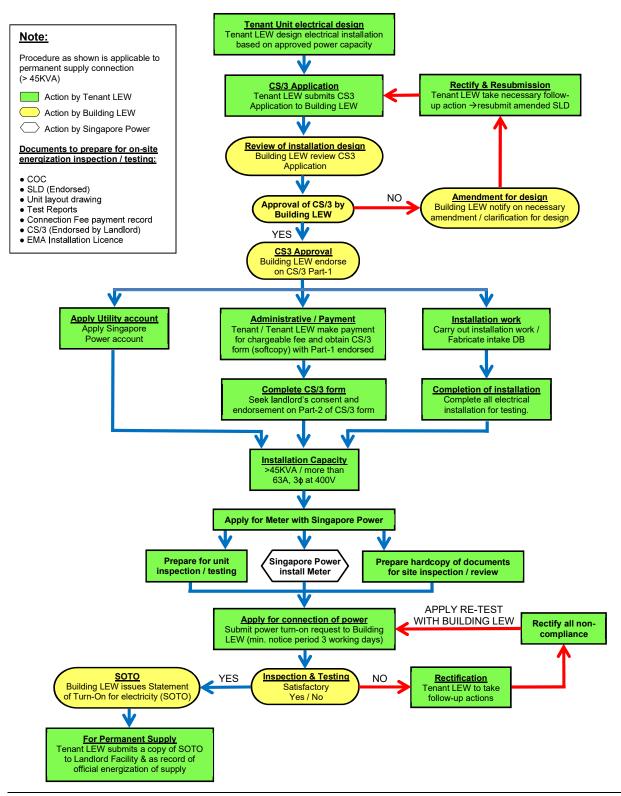


NOTE: Building LEW may conduct inspection for Non-contestable installation that is below 45KVA when necessary.





PROCEDURE (FLOW-CHART) FOR APPLICATION OF ELECTRICITY CONNECTION FOR PERMANENT SUPPLY FOR NON-CONTESTABLE CONSUMER (ABOVE 45KVA)







<u>Guidelines for Application for Connection of Electricity Supply by Tenants</u> (For Non-Contestable consumers)

- 1. The Tenant / consumer of electricity shall engage LEW (licensed electrical worker) to submit this application. If the installation project is appointed a M&E company, the contractor (M&E company) shall engage LEW to submit this application.
- 2. The responsibility of the Contractor LEW:
 - a) Review all documents, ensure documents comply with guidelines stated in this handbook before making submission.
 - b) Supervise the electrical work
 - c) Liaise with Building LEW for inspection / turn on of supply (fee chargeable)
 - d) Submit the following documents to Building LEW for review and approval prior to turn on / site inspection and testing:
 - i. Electrical Single-Line Diagram (complete with title block with information of installation)
 - ii. Electrical Layout Diagram (power / lighting / emergency or exit lightings)
 - iii. Certificate of Compliance
 - iv. Electrical Installation Test Reports
 - v. EMA Installation Licence (only for installations with supply capacity of >45kVA)

Refer to page-12 and 13 of this application handbook for the document submission requirements.

- 3. The approval of application is subjected to the following:
 - a) Supply shall be obtained from Landlord switchboard/ Riser approved by Building LEW.
 - b) Tenant's Load shall be balanced if supply is 3 phase.
 - Tapping of supply from Landlord's emergency supply is not allowed, unless approval obtain from Landlord.
 - d) Earth Fault Protection such as RCCB / Earth Fault Relay must be installed at incoming breaker.
 - e) Temporary power supply application requires private KwH meter to be installed at Temporary DB by contractor for the purpose of recording electricity consumption. Private Kwh meter is not required if landlord deems as not necessary and charges for usage of electricity is based on daily rate.
 - f) Temporary supply for renovation / temporary installation for events site set-up shall comply with SS:650 (formerly CP-88).
 - g) Settings of protective devices are subjected to changes, if needed. This is to ensure that discrimination of protection is achieved between tenant's installation and landlord's electrical distribution system.

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<u>Guidelines for Application for Connection of Electricity Supply by Tenants</u> (For Non-Contestable consumers)

- h) The tenant must undertake to reduce the approval load on demand by the landlord if the approval load is not fully utilized.
- i) This approval is given on the basis that the electrical loading is within the limits acceptable for use in Landlord's premises. It is not an endorsement of safety, reliability or suitability of the equipment used. The approval shall not be taken to override any statutory requirements.
- j) Tenant's LEW shall carry out testing and witnessed by Building LEW (for all temporary supply connection and permanent installation that is above 45kVA).
- 4. Requirement for Single Line Diagram (SLD):
 - a) State all current rating / type of circuit breakers, RCCB types (AF/AT, Short-circuit Rating, Ian)
 - b) State all incoming and outgoing circuit cable sizes, type of cables and method of installation (If lay on tray, use only double insulated protected cables)
 - c) Title block with full detail (Full installation address, name of tenant unit, Owner of Installation, Design by, Build By, Date, Drawing No.)
 - d) Information of Tenant's appointed LEW (Endorsement, Name of LEW, EMA Licence No. Contact number)
 - e) State the following design load information:
 - i. Approved Load agreed by Landlord (comply with contracted power density)
 - ii. Total connected load
 - iii. Maximum Demand
 - f) Indicate information of Landlord source (Source from which landlord Riser, Switchboard / circuit number)
 - g) All outgoing circuits description must be provided with the location of the circuit fittings (example: L1P1 3 no. of 13A twin SSO located in Room-1)
 - h) SLD shall show details of meter board for installations taking supply from Landlord Meter

Refer to the attached Appendix for sample of SLD requirements. Non-compliance to the guidelines for SLD submission may result in longer process time for CS3 application.

Appendix-1: Compliance guidelines for SLD Submission (sample of 63A DB / suitable guide for up to 100A DB)

Appendix-2: Compliance guidelines for SLD Submission (sample of 150A DB / suitable guide for DB > 100A)

1 Bukit Batok Street 22, #04-01, Singapore 659592 Tel: 65674032 Fax: 65697507





<u>Guidelines for Application for Connection of Electricity Supply by Tenants</u> (For Non-Contestable consumers)

5. Fees and payment matters

- a) CS3 Applicant will be notified once the application for supply connection has been approved. The CS3 form will be prepared and endorsed by Building LEW. Applicant will be notified on the fee chargeable for CS3 application.
 - b) Applicant shall make payment of CS3 application fees to LC Engineering Services Pte Ltd by Bank transfer or PayNow (UEN: 201134302M). A copy of the remittance advice shall be sent to us via email once payment is made. The approved CS3 application form will be sent to applicant after verification of payment.

Bank details:

Swift Code:

Bank Account Holder: LC Engineering Services Pte Ltd

Office Number: 65674032 Fax Number: 65697507

Bank Name: Oversea-Chinese Banking Corporation

Limited (Bank Code: 7339)

Branch: North Branch (Branch Code: 641)
Bank Account No: 641-204045-001 (Includes Bank Code)

Bank Address: 460 North Bridge Road #01-00

Singapore 188734

OCBCSGSG



- c) Fees paid are not refundable. A reappointment fee shall be imposed for any reappointment (applicable to all for temporary supply and permanent supply above 45KVA) for Inspection / testing / turn-On due to non-compliance of the tenant installations or tenant's contractor or LEW failure to turn up at site.
- d) 3 working days' notice (does not include Sat / Sun / Public holiday) is required for booking of appointment (applicable to all for temporary supply and permanent supply above 45KVA) for site Inspection / Turn-On of supply. Additional surcharge fee is chargeable for request of express Turn-On with notice period of less than 3 days upon approval of CS3 and payment of the CS3 fees.
- e) Test appointment that is fixed on weekdays after office hours (6:00pm onwards) or dates that fall on public holidays or weekend shall be subjected to additional surcharge fee.

1 Bukit Batok Street 22, #04-01, Singapore 659592 Tel: 65674032 Fax: 65697507





<u>Guidelines for Application for Connection of Electricity Supply by Tenants</u> (For Non-Contestable consumers)

- f) A re-test or re-inspection fee is chargeable for additional attendance made by Building LEW. Conditions that may be subjected to re-test or re-inspection as follow:
 - i. Absence of Contractor / Tenant LEW
 - ii. Unsatisfactory test results
 - iii. Incomplete installation / Installation not ready for testing
 - iv. Unsafe condition / non-compliance of electrical safety
 - v. Payment for CS3 application fee not made prior to energization / testing appointment
- g) When surcharge fee is chargeable due to conditions mentioned in item-5(e) and 5(f), a standard fee of S\$200.00 (GST chargeable) will be applicable to a single application. If more than one application is affected by item-5(e) and (f), each application will be charged with surcharge fee.
- 6. All electricity supply usage shall be notified (including short term set up for events / road-show booths or exhibitions) to both the Building Management and appointed Building LEW. Tenant that are doing fit-out or minor renovation work shall apply for temporary usage of electricity with proper consent obtained from both Building Management and the appointed Building LEW. Application procedures for temporary supply usage and connection shall comply with the procedures given in the flowchart (refer to page-3 to 5 for respective types of application).
- 7. Note that under the Electrical ACT, it is an offence to carry out electrical rewiring work without the approval and supervision of Licensed Electrical Worker. As such, the <u>Building Management reserves</u> the right to disconnect the electricity supply in the event of non-compliance or unauthorized connection and usage of power supply, including temporary supply for renovation, events / road-show booths or exhibitions.
- 8. Contractors who are engaged by tenants to carry out reinstatement work for moving out and handingover of units shall reinstate all the unit's electrical installations accordingly to landlord's as-built drawing (electrical) / clauses stated in the tenant's agreement. The final installation that is ready after reinstatement work is completed shall be inspected and tested by the appointed Building LEW. The contractor shall submit CS3 to Building LEW for request of inspection and testing of the completed reinstatement installations.
- 9. Tenants who are on short term lease (6months or less) of tenanted unit space shall also submit CS3 application to obtain the approval for the connection to the landlord distribution and usage of power supply. If installation is above 45KVA (more than 63A, three phase), tenant shall obtain EMA Licence for operate of electricity.

1 Bukit Batok Street 22, #04-01, Singapore 659592 Tel: 65674032 Fax: 65697507





<u>Guidelines for Application for Connection of Electricity Supply by Tenants</u> (For Non-Contestable consumers)

- 10. Methods for booking of inspection / testing and energization appointment, contact us at:
 - a) Call our office (6567-4032) during office hours (Weekdays, 8.30am ~ 1.00pm / 2.30pm ~ 5.00pm)
 - b) Email to: <u>CS3@Lces.com.sq</u>

Applicants shall obtain the approval of CS3 and make payment for the CS3 fee before booking of appointment date for the inspection / testing and energization appointment.

Energization appointment booking is for Temporary supply connection & Permanent supply connection (> 45kVA only). Installation below 45KVA shall be inspected, tested and energized by Singapore Power Testing Department.

- 11. The following documents shall be prepared for inspection and energization of installation and handover a set the Testing LEW without fail <u>(for installation above 45KVA):</u>
 - a) Single Line Diagram (as-built) endorsed
 - b) Certificate of compliance (COC) endorsed and dated
 - c) Electrical layout drawings (power / lighting / emergency lighting) endorsed
 - d) Test reports (insulation resistance test reports / protection relay test reports)
 - e) CS3 (completed with endorsement by Landlord)
 - f) Payment record of CS3 fees (comprises of testing fee) for verification by Testing LEW
 - g) EMA Licence copy (for permanent supply above 45kVA)
 - h) Letter of Authorization for appointing stand-in LEW (if Design / Contractor LEW is not attending)

Note that installation that is below 45KVA will be tested by SP Testing Officer. Documents submission for energization and testing shall comply with SP requirement for installation that is below 45KVA.

1 Bukit Batok Street 22, #04-01, Singapore 659592 Tel: 65674032 Fax: 65697507





Page 11 of 16

Guidelines for Application for Connection of Electricity Supply by Tenants (For Non-Contestable consumers)

12. Post-energization:

a) Submit copy of Statement of turn-on document:

Tenant installation that is below 45KVA will be tested and energized by SP Testing Team. The Tenant's LEW shall submit a copy of the Statement-of-turn-on issued by SP to building LEW and the Management of Landlord for record keeping purposes.

For tenant installation that is above 45KVA, the testing and energization will be conducted by the building LEW and the Statement of turn on will be issued as well. The Tenant's LEW shall submit a copy of the Statement-of-turn-on issued by building LEW to the Management of Landlord for record keeping purposes.

b) Display of temporary supply Statement of turn-on document:

Fit-out / renovation contractors shall display a copy of the temporary supply Statement-of-turn-on (SOTO for temporary supply) at the temporary supply intake DB for the duration of the work.

c) Display of EMA Licence (for installation above 45KVA) and SLD

The EMA Licence (only for installation above 45KVA) and SLD shall be displayed at the main supply intake DB of the tenanted premise. The Tenant LEW shall submit the latest updated asbuilt SLD to building LEW / Management of landlord if there is any change of installation / design.

13. The Building Management and LEW will not be liable to any party for any losses, cost, expenses and damages arising therefrom.

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FORM A - CS3 APPLICATION INFORMATION (To be completed by Tenant's LEW / Elect. Contractor)

Instructions to applicant:

- 1. Form-A comprises of 5 parts (2-pages). Tenant LEW or electrical contractor shall fill up the required information accordingly.
- 2. Write in a clear and legible manner when filling up the forms.
- 3. All boxes are required to be filled. Incomplete forms will be subjected to longer processing time. Where required information is not applicable at all, write 'N.A'.
- 4. Refer to Part-5 for the compulsory documents to be submitted together with Form-A and Form-B (CS3 Form).
- 5. All single-line diagrams that are to be submitted must be checked by Tenant / Contractor / Applicant's LEW for compliance to the SLD submission guidelines (refer to Appendix).
- All documents shall be submitted in the form of softcopy format (PDF File). Merge all documents and drawings into 1 single file. Arrange your documents in the sequence as shown on the right.
- Single line diagrams that are not endorsed by LEW / documents that are incomplete or does not comply with the SLD submission guideline will be rejected or subjected to longer application processing time.
- 8. Submit completed application forms together with all relevant drawings to: (email) CS3@Lces.com.sg
 (Office) 6567-4032 For enquiry
- 9. Processing will take approximately 3 working days.

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Part-1: TENANT'S IN	FORMAT	ION:			
Tenant Company Name:					
T 15 : (11	Block:	Unit No: #	Building	g Name:	
Tenant Premise full address:	Street:			Postal Code:	
Tenant Contact Person:	Name:			Designation:	
Tenant's Email address:					
Tenant Contact number:	HP:		Office:	Fax:	
	•				
Part-2: BILLING INFO	ORMATIC	N:			
Company Name (For invoice of Inspection fees):					
Full Address	Block:	Unit No: #	Building	g Name:	
(For invoice of Inspection fees):	Street:			Postal Code:	
Part-3: SITE PERSONNEL CONTACT INFORMATION:					
Tenant's LEW Name and Mobile No:	Name:			HP:	
Contractor Supervisor Name					

HP:

Page 12 of 16

Name:

and Mobile No:





FORM A - CS3 APPLICATION INFORMATION (To be completed by Tenant's LEW / Elect. Contractor)

Part-4: ARRANGEMENT FOR INSPECTION / TURN ON OF SUPPLY LINE

The following conditions shall be fulfilled before making a request for inspection / testing / energization of the supply line:

- Revenue meter to be installed and tested by metering agent (only for new installation).
- Installation of electrical fixtures are completed.
- CS3 had been approved with payment for CS3 fees made.

Applicant may contact LC Engineering Services Pte Ltd via email (CS3@Lces.com.sg) to provide their preferred testing / inspection / energization appointment.

Subjected to the availability of the testing LEW from LC Engineering services Pte Ltd, the testing appointment may be changed.

Refer to 5.d & 5.e (page-6 of the guidelines) for information of booking for testing appointments.

Part-5: DOCUMENT SUBMISSION CH	ECKLIST			
The following documents are attached together with this application:				
Document	No. of copies	Document	No. of copies	
Electrical Single-Line Diagram *#+		Overcurrent & Earth Fault Relay Operation Test Report +		
Electrical Layout Diagram #+ (power / lighting / e-light / DB)		Electrical Installation Test Report ⁺ (insulation resistance test)		
Certificate of Compliance *#+		Other Equipment Test Reports (if any)		
EMA License (only for applied capacity more than 45kVA or above 63A, three phase)				

Note:

- * Documents required to be submitted for review / approval of temporary CS3 application
- # Documents required to be submitted for review / approval of permanent CS3 application
- * Documents (updated, if any) required to be submitted for review and record keeping during energization

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Email: admin@Lces.com.sg Website: www.LCES.com.sg Page 13 of 16





FORM B - CS3 Form: Request for Electricity Supply by Tenants

PART 1 - TENANT (Details to be completed by Tenant's Licensed Electrical Worker)

CS3 FORM FOR TEMPORARY SUPPLY USE ONLY

					SUPPL	Y USE UNLY
Send Application to:	Building LEW - 1 Bukit B 6567403	, , ,	,	S3@Lces.com.sg	(email)	
Full Address of	Block: Unit No: #		Building N	ame:		
Installation	Street:				Postal Code:	
Name of Company						
Total Approved Load (A)#		mps at: 30V / 400V	Total Floor Area (m²)		Power Density (W/m²)	
(✓ Tick to select the ty New Tenant⁺		Rewiring Work	Tempora	ry supply*	ition of Circuits	Reinstatement
The total approved to * Private utility meter i * Temporary supply fo * Applicant of temporar	on design load shall comply with bad shall not exceed the total po- nstalled shall be complied to Lar r renovation, fit-out work / temp ry power supply shall provide a not required if landlord deems	ower calculated fron ndlord's requirement orary installations fo temporary main DE	n the approved pov nt. or events site set-u 3 with private utility	ver density for the tota p shall comply with St meter installed for po	S:650 (Formerly CP-8	88).
PART 2 – BUIL	DING LICENSED ELI	ECTRICAL W	ORKER			
that the above switchboard of 2. I have no object switchboard of the s	d the loading of the election e-mentioned load requificities for the building / complex and ection for the above-mention of the building / complex. The ensure that the above-mensure t	rement can be and the total ap entioned load	e catered for proved load to to be connect	from the rising in the entire building and to the rising	/ horizontal mai ig / complex will / horizontal mai	ns system / main not be exceeded. ns system / main
Signature of Build	ling's LEW				Date:	
PART 3 – CON	SENT FROM LANDLO	ORD				
To: Tenant of ab	ove-mentioned address:					
rising / horizor	consent for the above-mental mains system / main ur tenant's LEW to liaise	switchboard of	the building /c	omplex.		
Name / Signature	of Authorised Personne	-			Date:	

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FORM CS/3 Letter of Consent from the Landlord/Management Corporation

То:	SP Group 2 Kallang Sector Singapore 349277 Attn: SP Services		Fax No. 63048289
ELECT	RICITY SUPPLY TO	(Full Address of the Customs of	
FOR _		(Full Address of the Customer)	
		(Name of Customer)	
TOTAL		AT	
PART			
the ab	povementioned load requiremen	ctrical installation of the abovementioned building/c t can be catered for from the rising/horizontal mains ved load to the entire building/complex will not be a	system/main switchboard of the
	no objection for the abovement building/complex.	tioned load to be connected to the rising/horizontal	mains system/main switchboard
The El	ectrical Installation Licence No. o	f the building/complex is	·
The el	lectrical installation of the building	g/complex from which this load is to be connected i	S
	Unmetered (i.e. with	out Master Account)	
	Metered under Mass	ter Account No	
	check to ensure that the aking/complex.	povementioned installation is compatible with the	ne electrical installation of the
		Date:	
Signat	ture of Licensed Electrical Worker	r	
Licenc	ce No:/	Tel No:	
Name	::		
Addre	ess:		
			S[)
<u>PART</u>			
I here rising/	by give consent for the abovem /horizontal mains system/main sv	nentioned customer to tap electricity supply of a cavitchboard of the building/complex.	pacity indicated above from the
Signat	ture of Authorised Person	Date:	
 Name	3	Designa	ation
	al Stamp of the ord/Developer/Management Col	rporation	13/10/11

1.

2.

3.4.

5.





APPENDIXES

SAMPLE SLD OF 63A AND 150A TYPICAL DESIGN (GUIDELINE FOR COMPLIANCE)

NOTE:

These sample drawings provide as a compliance reference guide for applicant to prepare the installation SLD for submission. SLD with missing / lack of information (strictly to comply with the guidelines stated in these samples) will be subjected to rejection which may result in longer processing time for application. Do not attached these sample SLD with your submission.

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Email: admin@Lces.com.sg Website: www.LCES.com.sg Page 16 of 16

