

RUJ. KAMI : SESB/PBK (PBN)/PPS/23/03 Tarikh : 19hb Oktober 2011
KEPADA : Seperti dalam Lampiran
DARIPADA : Pengurus Besar (Pembahagian)
PERKARA : ULANGKAJI BUKU PANDUAN SESB ELECTRICITY
SUPPLY APPLICATION HANDBOOK 2008 (ESAH)

Perkara diatas adalah dirujuk.

2. Adalah dimaklumkan bahawa terdapat perubahan pada beberapa terma di dalam Buku Panduan *Electricity Supply Application Handbook 2008 (ESAH)* seperti yang berikut:-

- i. Perubahan dan penambahan syarat para 3.4 "*Supply Project Lead Time*" adalah bagi memperjelaskan tempoh permohonan bekalan berdasarkan tahap voltan yang dipohon berserta anggaran tempoh pelaksanaan projek bekalan yang terlibat.
- ii. Perubahan syarat para 4.1 "*Maximum Demand Levels and Supply Schemes*" bagi memperjelaskan skema pembekalan berdasarkan keperluan beban daripada pengguna dan cara penyambungan bekalan ke premis pengguna yang terlibat.
- iii. Perubahan syarat tersebut juga melibatkan keterangan tambahan mengenai keperluan tapak PMU/PPU/SSU/PE yang terlibat.

3. Disertakan Lampiran (1) - (3) sebagai rujukan pihak tuan/puan selanjutnya. Panduan ini adalah berkuatkuasa serta-merta.

Sekian, harap maklum.

"BERSAMA MEMACU PEMBANGUNAN NEGERI SABAH"


(Ir. AHMAD FUAD BIN M. KASIM)
PENGURUS BESAR (PEMBAHAGIAN)

ESAH Addendum 1

3.4 Supply Project Lead Time

- The lead-time for supply connection depends on a number of factors including the type of premises, the electrical load required and the location of the premises and approval of the local authorities.
- Applicants should submit their applications for supply as early as possible giving the necessary information of their requirements to the nearest SESB Consumer Service Counters.
- They must also inform SESB of the progress of their project(s). The above measures are necessary to ensure that SESB's supply projects are coordinated with the construction and wiring installation at the applicants' premises, and thus avoid any delay in connection of supply.

The typical supply project lead time required by SESB is as follows:

Requirement	Supply Project Typical Lead Time
132 kV and above	3 years – 5 years
33 kV	1 year - 3 years
11 kV	1 year

Table 1-3.5: Supply Project Lead Time

- The typical supply project construction lead time after consumer connection charge has been paid is as follows:

Requirement	Supply Project Construction Lead Time
132 kV and above	4 years
33 kV	2 years
11 kV	8 months

Table 2-3.5: Supply Project Construction Lead Time

ESAH Addendum 2

4.1 Maximum Demand Levels and Supply Schemes

- The table below indicates the typical schemes for various demand levels of individual consumers. In the case of maximum demand (M.D) ranges of 5MVA to 10MVA, the supply voltage options of either 11 kV or 33kV will ultimately be determined by the predominant supply voltage where the prospective consumer is to be connected. Consumers with M.D of 700kVA and above have to take supply at 11 kV.

M.D. ranges of individual consumer	Supply Voltage	Typical Supply Scheme
Up to 23kVA	230V*	Overhead services from LV mains
23kVA to 70kVA	400V*	Three phase overhead or underground cable service from existing LV mains
70kVA to 700kVA	400V*	Direct cable service from Substation Feeder Pillar/Transformer
700kVA [#] to 5000kVA	11kV	Directly fed through SESB 11kV switching station
5000kVA to 15000kVA	33kV	Directly fed through SESB 33kV switching station
Above 15000kVA	132kV	Directly fed through SESB 132kV switching station respectively

Table 2-4.1: Typical supply schemes for various M.D levels

Nota: *MC IEC 60038
[#]Single Customer

ESAH Addendum 3

4.2.2 Land Or Building Size Requirements For Substations

Substation Category	Type	Land Size (Building Size)	Building Design
Transmission Main Intake / Pencawang Masuk Utama (PMU) -132/33/11kV	Gas Insulated Switchgear (GIS) Without outdoor switchyard	1.5 acre	Customized design subject to SESB approval
	Conventional	3-acre	Customized design subject to SESB approval
Main Distribution Substation (PPU) - 33/11kV	Indoor type	45m x 45m (23m x 29m)	Customized design subject to SESB approval
	Outdoor switchyard	Subject to SESB approval	
Main Switching Substation (SSU) - 33kV & 11kV	(a) Conventional (33kV)	33m x 22m (21m x 10m)	Customized design subject to SESB approval (with inclusion of meter room)
	(b) Conventional (11kV)	20m x 14m (8m x 6m)	
Distribution Substation (PE) - 11/0.400kV	(a) Single transformer substation	14m x 18m (8m x 6m)	According to SESB design
	(b) Double transformer substation	17m x 18m (11m x 6m)	According to SESB design
	(c) Compact Substation	Subject to SESB approval	For special case application
	(d) Outdoor Substation	6m x 6m	Limited to those located in the rural areas. Substation size proportional to transformer capacity.

Table 2-4.2-1: Land and building size requirements for Substations

Area	Title	Type
Urban	Land	Indoor
	Strata	Indoor/compartmental
Town Centre	Land	Indoor
	Strata	Indoor/Compartmental
Rural	Land	Outdoor
Industrial	Land	Indoor up to 1000kVA
		Customized Indoor

Table 2- 4.2-2: Substation type according to Area