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1. INTRODUCTION

This document clarifies the technical evaluation strategy for the Lethabo Power Supply for 1MVA Miniature Substation Scope of Work.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document discusses the different technical aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) to complete the technical evaluation for the Lethabo Power Supply for 1MVA Miniature Substation Scope of Work. The team members who will be involved in the evaluation are listed and appointed in this document along with their responsibilities. This document also describes the acceptable and unacceptable risks and qualifications and/or conditions that will be applicable to the Scope of Contract. Once the Technical Evaluation Strategy is authorised, no changes will be made to the evaluation criteria without the appropriate revision process and authorisations.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document applies to Lethabo Power Station.

2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1] 240-48929482: Tender Technical Evaluation Procedure
- [2] ISO 9001 Quality Management Systems
- [3] ISO 14001 Safety Management Systems

2.2.2 Informative

- [4] Occupational Health and Safety Act; 1993
- [5] Environmental Regulations for Workplaces, 1987

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2.3 DEFINITIONS

2.3.1 Classification

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
TET	Technical Evaluation Team
TS	Technical Specifications

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure.

2.6 PROCESS FOR MONITORING

The document is reviewed by Engineering, to ensure alignment of the scope for the respective contract.

2.7 RELATED/SUPPORTING DOCUMENTS

- [5] 240-53716712: Tender Technical Evaluation Results Form
- [6] 240-53716726: Tender Technical Evaluation Scoring Form

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted or point scored but shall be assessed on a Yes/No basis as to whether or not the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is **80%**.

3.2 TET MEMBERS

TET number	TET Member Name	Designation
TET 1		
TET 2		

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

	Mandatory Technical Criteria	Reference to Technical Specification/Tender Returnable	Motivation for use of Criteria
1	Proof of Registration: Legal DOL registration as an Electrical Contractor.	Tender returnable	To ensure compliance of the OHS Act and regulations

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

The following technical assessment criteria will be used to assess suppliers' technical submissions. A weighted score-card approach will be used to evaluate technical compliance of tenders against the specifications. Failure to achieve a weighted scoring of **80%** evaluated based on the technical requirements below and associated scoring will deem the supplier disqualified from participating further in this tender.

Note: Failure to submit and/ or adhere to the below stated mandatory technical requirements disqualifies the supplier from participating further in this tender.

REQUIREMENT	WEIGHTED SCORE (%)	REMARKS	SCORING	GUIDELINE
Supplier Requirements	20	The supplier meets the specifications by providing datasheets of the mini substation in accordance with 240-56062752	0 (0% NON-COMPLIANT)	No Submissions
			2 (40% NON-COMPLIANT)	Datasheet does not fully meet the specification per standard
			4 (80% - COMPLIANT)	Datasheet meets key specifications per standard
			5 (100% - COMPLIANT)	Datasheet meets all specification per standard
	35	The supplier has completed schedule A and B.	0 (0% NON-COMPLIANT)	Schedule B not filled in or no submission.
			2 (40% NON-COMPLIANT)	Schedule B Partially filled in
			4 (80% - COMPLIANT)	Schedule B filled with key requirements, but some elements omitted
			5 (100% - COMPLIANT)	Schedule B fully filled in.
	10	The supplier has provided details with regards to costs associated with deliveries and lead time for delivery.	0 (0% NON-COMPLIANT)	No submissions
			2 (40% NON-COMPLIANT)	Lead time greater than 6 weeks
			4 (80% - COMPLIANT)	Lead time of 4 weeks to 6 weeks

Tender Technical Evaluation Strategy for Lethabo Power Station For 1MVA Miniature Substation

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Revision: **00**

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				Lead time of 4 weeks or less
			(100% - COMPLIANT)	
	25	The supplier has provided relevant Type Test Certificate for the Mini Sub.	0 (0% NON-COMPLIANT)	No Submission
			5 (100% - COMPLIANT)	Type Test Certificate submitted
	10	Suppliers to provide three or more treatable references of previous Purchase Orders on supply and delivery of Miniature Substation.	0 (0% NON-COMPLIANT)	No Submissions
			2 (40% NON-COMPLIANT)	Only 1 treatable reference order
			4 (80% - COMPLIANT)	2 treatable references submitted
			5 (100% - COMPLIANT)	3 or more treatable reference orders

3.5 CONCLUSIONS AND RECOMMENDATIONS

Both Mandatory and Qualitative Technical Evaluation Criteria must be adhered to.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation

5. REVISIONS

Date	Rev.	Compiler	Remarks
May 2026	0		Guideline for Technical Evaluation criteria.
July 2026	1		Alignment to 240-53716726

6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

-
-

7. ACKNOWLEDGEMENTS

None

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8. 11 KV TYPE B 1000KVA MINIATURE SUBSTATION (WITH RMU) SCHEDULE A & B

The supplier to fill in Schedule B for compliance

Schedule A: Purchaser's specific requirements

Schedule B: Particulars of equipment to be supplied

1	2	3	4	5
Item	Subclause	Description	Schedule A	Schedule B
1	2.1.1	Standard operating conditions		
1.1	NRS 004 4.2.1.3	a) Altitude m	1800	XXXXXXXX
1.2	SANS60694 2.1.2	b) Ambient air temperature °C	-5 to +40	XXXXXXXX
1.3		c) Lightning ground flash density Flashes/ km ² /year	High	XXXXXXXX
1.4	SANS60694 2.1.2	d) Maximum solar radiation W/m ²	1000	XXXXXXXX
1.5		e) Ultraviolet radiation	High	XXXXXXXX
1.6	NRS 004 4.2.1.3	f) Relative humidity %	98	XXXXXXXX
1.7	NRS 004 4.2.1.3 & DSP 34-1621 3.1.1.1	g) Pollution level (inland - low- corrosive / coastal- corrosive)	"very heavy" for coastal "medium" for inland	XXXXXXXX
1.8	SANS60694 2.1.2	wind pressure Pa	700	XXXXXXXX
1.9	DSP 34-1621 3.1.1.1	Pollution conditions inside mini-sub	Pollution Degree 3	XXXXXXXX
2		Ratings		
2.1	DSP 34-1621 3.1.1.2.2.a	Transformer power rating kVA	1000	_____
2.2	DSP 34-1621 3.1.1.2.2.b	Nominal voltage of system (Un) kV _{rms}	11	_____
2.3	NRS 004 4.1.4 & SANS 7801.3	System frequency Hz	50	_____
2.4	NRS 004 4.1.4	Number of phases	3	_____
2.5	SANS 780 8.26	Transformer rated no-load secondary voltage V _{rms}	420	_____
2.6	SANS 1019	Rated power-frequency voltage (U _{rn}) kV _{rms}	12	_____

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2.7	5.4.2 SANS 1019	Rated short-duration power frequency withstand voltage [50Hz: 1 min]	kV _{rms}	28	_____
2.8	DSP 34-1621 3.1.1.2.a	Rated lightning impulse withstand voltage (SANS 1019 5.4.2 List 3)	kV _{peak}	95	_____
2.9	SANS 780	Transformer induced voltage withstand level (see Table 2 - SANS 780)	kV _{rms}	22	_____
3		Design & construction			
3.1	DSP 34-1621 3.1.1.3.1.c	Layout (Type A Type B)		Type B	_____
3.2	NRS 004 4.2.2.3.1	Enclosure IP rating		IP35	_____
3.3	DSP 34-1621 3.1.1.3.1.d	Removable base sections adjacent to MV compartment (sections to lap bolted with nuts on the inside of the channel and housing)		YES	_____
3.4	NRS 004 4.4.2.5	Concealed door hinges		YES	_____
3.5	DSP 34-1621 3.1.1.3.1.e	Compartment fastening/locking (pad lockable)		YES - three point locking with 1 additional 10 mm sunken captive Allen cap screw	_____
3.6	DSP 34-1621 3.1.1.3.1.f	"Heavy-duty" stainless steel door locks		YES	_____
3.7	DSP 34-1621 3.1.1.3.1.g	Compartment lock protection facility required?	Y N	YES	_____
3.8		Total mass of mini-substation	kg	XXXXXXXX	_____
3.9		Overall dimensions			
		a) MV compartment length	mm	XXXXXXXX	_____
		b) LV compartment length	mm	XXXXXXXX	_____
	NRS 004 4.2.2.1.2	c) Overall length	mm	3000	_____
	NRS 004 4.2.2.1.2	d) Overall width	mm	1650	_____
		e) Overall height	mm	XXXXXXXX	_____
	NRS 004 4.2.2.1.2	f) Base width	mm	1200	_____

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3.10.	NRS 004 4.2.2.5	Provision for lifting of complete mini-sub onto a concrete plinth without need for dismantling (except for roof removal if required)	YES	_____
3.11	NRS 004 4.2.2.4.2	Provision of shear-off lifting lugs on roof for ease of roof removal (where roof removal is required prior to lifting mini- sub)	YES	_____
3.12	NRS 004 6.1.2	Mini-sub housing sections/doors bonded	YES	sub)
4		Transformer unit		
4.1	NRS 004 6.4.1	Electrical requirements	As per SANS 780	sub) sub)
4.2	NRS 004 6.4.4	Vector group	Dyn11	
4.3		MV system earthing (Effective/Non- effective)	Non-effective	XXXXXXXX
4.4		MV system fault level	kA 20	XXXXXXXX
4.5	DSP 34-1621 3.1.1.2.3.f	LV transformer neutral earthing	Solid-connection to insulated LV neutral bar	_____
4.6	DSP 34-1621 3.2.2.1	Temperature rise limits	As per DSP 34-1621 5.2.1	
4.7	SANS 780 8.5.2	Secondary voltage regulation (Off-load)	+5,0, + 2,5, 0, -2,5, -5,0	_____
4.8	SANS 780 5.6.1	No-load losses	XXXXXXXX	_____
4.9	SANS 780 5.6.1	Load losses	XXXXXXXX	_____
4.1	SANS 780 8.27	Impedance voltage (see Table 9 of SANS 780)	SANS 780	_____
4.11	DSP 34-1621 3.1.5	X/R ratio	XXXXXXXX	_____
4.12	DSP 34-1621 3.1.5	Cost lKw of no-load losses	_____	XXXXXXXX
4.13	DSP 34-1621 3.1.5	Cost lKw of load losses	_____	XXXXXXXX
4.14	SANS 780 8.5.3	Audio-sound level- maximum (see table 6 of SANS 780)	56	_____
4.15	DSP 34-1621	Sealed transformer unit	YES-	_____

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4.16	3.1.1.2.2.d NRS 004 6.4.7	Transformer MV bushings (NB internal screen to be earthed)	welded cover EN 50180 Type C with M16x2 thread	_____
4.17	DSP 34-1621	MV bushing-centre clearances (minimum)	90	_____
4.18	3.1.3.1.1.d DSP 34-1621	Clearances between outer bushing- centres and mini-sub metal enclosure (minimum)	50	_____
4.19	3.1.3.1.1.d DSP 34-1621	Transformer overload protection facility	YES	_____
4.2	3.1.2.1.2	Winding material (Al I Cu)	XXXXXXXX XXXXXXXX XXXXXXXX	_____
4.21		Manufacturer	YES	_____
4.22	DSP 34-1621 3.1.2.1.2.b	Top-oil thermoelectric temp-sensing element	YES	_____
5		MV compartment		
5.1	DSP 34-1621 3.1.3.1.1	Equipment in MV compartment	RMU	_____
5.2		Ring Main Unit manufacturer	XXXXXXXX	_____
5.3		Incoming I outgoing MV cable requirements		
	DSP 34-1621 3.1.3.1.1.d	a) 3 x single core I 1 x three core	1 x 3 core	_____
	DSP 34-1621 3.1.3.1.1.d	b) Cable support (clamping) required (NRS 012 & D-DT-8019) all cables expect 11 kV paper insulated.	YES (Size 75 -100 mm OD)	_____
	DSP 34-1621 3.1.3.1.1.d	11 kV paper insulated cables	YES (Size 50 -75 mm OD)	_____
		c) Minimum distance from cable clamp to centre-line of RMU bushings	mm 800	_____
		d) Type of connection (NRS 012) to RMU	Type 3 (unscreened separable connectors)	_____
		e) Interconnection arrangement between RMU and transformer MV bushings	Single core screened	_____

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5.4	DSP 34-1621 3.1.3.1.3	Make (product) connector used on transf. bushings (SSC)		cable XXXXXXXXXX	_____
5.5	DSP 34-1621 3.1.3.1.3	Make (product) of connector used on RMU T-off (USC/SSC)		XXXXXXXXXX	_____
5.6	NRS 004 6.1.3	Mini-sub (MV) earth bar (accessible in front of RMU)		YES	_____
5.7	DSP 34-1621 3.1.1.2.7.f	Make (product) of mains powered earth fault indicator (DSP 34-1080)		XXXXXXXXXX	_____
6		LV Compartment			
6.1	NRS 004 6.3.3.1	LV ASSEMBLY complies with SANS Jan-73		YES	_____
6.2	DSP 34-1621 3.1.1.2.5.a	Busbar-rating (see Table 1)	A	Rated at 1.2 transformer secondary rated current	_____
6.3		Busbar-insulation		Air insulated	
6.4	DSP 34-1621 3.1.1.2.3.b	Busbars	0	3 + one identical neutral busbar + earth bus bar (insulated from frame)	_____
6.5	NRS 004 6.3.3.1	Current density of busbars	A/mm ²	SANS 1973-1	_____
6.6	NRS 004 4.1.2.5	Rated short-time withstand current of main circuit - 1 s	kA _{rms}	XXXXXXXXXX	_____
6.7	NRS 004 6.3.3.2.6	Min clearance to earth and between phases	mm	XXXXXXXXXX	_____
6.8	DSP 34-1621 3.1.1.2.3.d	Provision of a LV neutral surge arrester (as per D-DT-3088) fitted between mini-sub (MV) earth bar and LV neutral-earth bus bar		YES	_____
6.9	DSP 34-1621 3.1.1.2.3.c	LV neutral-earth busbar to be earthed (via a 70mm ² Cu electrical bridge to the mini-sub earth bar)		YES	_____

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		LV neutral busbar to be bridged to the LV earth bar (see Figure 2)		YES	_____
6.1	4.1.2.5.2	Stainless Steel M12 set screws provided		YES	_____
6.11	DSP 34-1621 3.1.3.1.5	Provision of main LV circuit-breaker		YES	_____
6.12	DSP 34-1621 3.1.3.1.5	Make (product) of circuit breaker		SANS 556-1	_____
6.13	NRS 004 4.1.2.6	Minimum fault current interrupting capacity	kA	XXXXXXXX	_____
6.14	DSP 34-1621 3.1.3.2	Number of outgoing LV feeder bays to be provided for (drill busbar 014mm holes)		9	_____
	NRS 004 6.3.3.2.6	Spacing between LV feeder bays (see Figure 1 of DSP 34-1621)	mm	110	_____
6.15	DSP 34-1621 3.1.1.2.4.b	LV panel designed for vertical fuse-bases (FH) or MCCBs (CB)		FH/CB	_____
6.16	NRS 004 6.3.3.2.6 and DSP 34-1621 3.1.1.2.3.b	Spacing (vertical): Between phase busbars Between lowest LV busbar and LV neutral Between LV neutral and LV earth Between LV earth and gland plates (see Figure 2 of DSP 34-1621)	Mm mm mm	185 300 200 (min) 200 (min)	_____ _____ _____ _____
6.17	DSP 34-1621 3.1.1.2.7.a	LV maximum demand ammeters		Required on all three phases	_____
6.18	NRS 004 6.3.3.5.1	Ammeter type		Thermal integrating over 15 min period	_____
6.19	DSP 34-1621 3.1.1.2.7.b	LV indicating voltmeter (with a selector switch) (YES/NO)		YES	_____
6.2	NRS 004 6.3.3.5.3	Ammeter and voltmeter size and display	mm	96 x 96, 90°	_____
6.21	NRS 004 6.3.3.5.3	Ammeter and voltmeter position		LV compartment (high as practicable)	_____
6.22	NRS 004 6.3.1.2	Provision of removable barrier to separate LV end compartment and front LV compartment		YES - non flammable	_____
7		LV outgoing feeder bay gland plates			
7.1	DSP 34-1621	Number of gland plates to be provided		6	_____

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7.2	3.1.1.2.4.e	(Figure C.9 of NRS 004)		
	NRS 004	Number of gland holes per feeder	2	_____
	6.3.3.3.10	bay		_____
	NRS 004	Size of holes per feeder bay:	mm 1 x 65 mm	_____
	6.3.3.3.10		mm 1 x 52 mm	_____
	NRS 004	Clearances for each hole per	mm 1 x 98 mm	_____
	6.3.3.3.10	feeder bay:	mm 1 x 65 mm	_____
8	NRS 004	Distance between gland plate center lines.	mm 110	_____
	6.3.3.3.10	(Figure C.9 of NRS 004)		_____
	8	LV auxiliaries		_____
	8.1	OSP 34-1621	Provision of three point socket outlet in	YES
	3.1.1.2.7.c	LV compartment (with instantaneous-trip	_____	_____
8.2		earth leakage unit [20 A; 5 kA rupturing		_____
		capacity; 30 mA sensitivity] and 20 A		_____
		HRC fuse with neutral fuse link)		_____
		(YES/NO)		_____
	8.2	OSP 34-1621	Provision of a tamperproof compartment	NO
8.3	3.1.1.2.7.d	for the installation of a photo-cell		_____
		(YES/NO)		_____
	8.3	OSP 34-1621	300 mm x 300 mm blank plate for PECU	YES
	3.1.1.2.7.d			_____
	8.4	OSP 34-1621	Numbering ferrules for auxiliary wiring	YES
9	3.1.1.2.7.e			_____
	9	Materials and corrosion protection		_____
	9.1	OSP 34-1621	Mini-sub enclosure, LV ASSEMBLY and	_____
	3.1.1.3.2.d	transformer tank:		_____
	OSP 34-1621	Inland: mild steel	XXXXXXXX	_____
	3.1.1.3.2.e	Coastal: 3CR12 or zinc sprayed mild	XXXXXXXX	_____
		steel or stainless steel		_____
	OSP 34-1621	Corrosion protection detailed	OS-6 / OS-7	_____
	3.1.1.3.2.g	specification number (OSP 34-1658)	/	_____
9.2		offered for inland applications	OS-8	_____
	OSP 34-1621	Corrosion protection detailed	OS-11 / OS-	_____
	3.1.1.3.2.i	specification number (OSP 34-1658)	12/ (OS-14 +	_____
		offered for coastal applications	OS-16) /	_____
			(OS-14 +	_____
9.3			OS-17) / OS-	_____

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9.2	OSP 34-1621	Transformer radiator:		
	3.1.1.3.2.f	Inland: mild steel	XXXXXXXX	_____
		Coastal: hot-dipped galvanized / zinc metal sprayed (if corrugated) mild steel	XXXXXXXX	_____
	OSP 34-1621	Corrosion protection detailed	OS-6 / OS-7 /	_____
	3.1.1.3.2.i	specification number (OSP 34-1658) offered for inland applications	OS-8	
	OSP 34-1621	Corrosion protection detailed	(OS-13 +	_____
	3.1.1.3.2.j	specification number (OSP 34-1658) offered for coastal applications	OS-16) / (OS-13 + OS-17) / (OS-14 + OS-16) / (OS-14 + OS-17)	
9.3	NRS 004	Tinned copper busbars (YES/NO)	YES	_____
	6.3.3.2.2			
9.4	OSP 34-1621	Mini-sub base:	Material Steel	_____
	3.1.1.3.2.g			
	OSP 34-1621	Corrosion protection detailed	(OS-13 +	_____
	3.1.1.3.2.i	specification number (OSP 34-1658) offered	OS-16) / (OS-13 + OS-17)	
9.5		Gland plates and support structure:	XXXXXXXX	_____
	DSP 34-1621	Coastal: Material: 3 mm (min) stainless steel		
	3.1.1.3.2.h			
	NRS 004	Inland Material: 3 mm (min) mild steel I 3CR12 I stainless steel	XXXXXXXX	_____
	6.3.3.3.8			
	DSP 34-1621	Corrosion protection detailed	DS-13 I DS-14	_____
	3.1.1.3.2.i	specification number (DSP 34-1658) offered if mild steel (Hot-dip. galv. to OR zinc sprayed) - for inland only		
9.7	DSP 34-1621	5 mm cork packing (between ends and tank, base and ends, and base and tank)(YES/NO)	YES	_____
	3.1.1.3.2.k			
9.8	DSP 34-1621	Final colour	Avocado C12	_____
	3.1.1.3.2.l		(SANS 1091)	

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10		Notices, signs and labels			
10.1	NRS 004 8.2.1	Transformer rating plate		YES	_____
10.2	DSP 34-1621 3.3.1.2	Treatment and Full First Aid Instructions on inside of MV and LV compartment doors		YES	_____
10.3	DSP 34-1621 3.3.1.2	Elec. warning signs on all doors and barriers		YES	_____
10.4	NRS 004 8.4.11	Transformer phase labels below bushings		YES	_____
10.5	NRS 004 6.3.3.2.5	Colour-coded LV busbars		YES	_____
10.6	DSP 34-1621 3.3.1.2	Labelling of MV and LV compartment doors (sign - D-DT-3202 sheet 5 and 4)		YES	_____
10.7	NRS 004 8.4.3	Primary voltage, secondary voltage and kVA rating stencilled on the front, centre.		YES	_____
10.8	NRS 004 8.4.4	Mini-sub mass and stock number stencilled on side or rear.		YES	_____
10.9	NRS 004 8.4.6	ID markings linking roof to body per batch		YES	_____
10.10.	NRS 004 4.2.2.3.9	Provision for the safe-keeping of documents		YES	_____
11		Documentation			
11.1	DSP 34-1621 3.3.2.3	Type test certificates (provide ref. numbers of reports)	Sets	1	_____
11.2	DSP 34-1621 3.3.2.3	Routine test certificates	Sets	1	_____
11.3	DSP 34-1621 3.3.2.2	Drawings (Mini-sub GA, LV ASSEMBLY, Operating procedure label for RMU tee-off)	Sets	1	_____
11.4	DSP 34-1621 3.3.2.2	Diagrams (Mini-sub schematic - including the LV ASSEMBLY, Rating Plates)	Sets	1	_____
12		Accessories			
12.1	DSP 34-1621 3.4.1.2	Type of sealant provided		XXXXXXXX	_____

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