

Type B Mini Subs technical evaluation criteria			
TASK / MEASURE			
Criteria	Clause	Weight	Score
Is a detailed covering letter containing a list of mini sub items offered submitted?	DSP 34-1621	10	
<p>Is a full list of the manufacturing locations for the offered mini sub type and main components provided for the following:</p> <ol style="list-style-type: none"> <li>1) The mini substation enclosure manufacturing,</li> <li>2) The mini substation enclosure painting/ protective coating application,</li> <li>3) The transformer manufacturing,</li> <li>4) The bushing manufacturing for the transformer,</li> <li>5) LV assembly manufacturing,</li> <li>6) The LV interconnection cable manufacturing,</li> <li>7) The Type B mini subs RMU manufacturing,</li> <li>8) The Type B mini subs RMU fitted CT's manufacturing,</li> <li>9) The Type B mini subs RMU fitted bushing manufacturing,</li> <li>10) The Type B mini subs RMU fitted Vacuum Interrupter manufacturing,</li> <li>11) LV switchgear manufacturing,</li> <li>12) The MV interconnection cable manufacturing,</li> <li>13) The MV cable terminations (SSC's) manufacturing,</li> <li>14) The Type B mini subs relay manufacturing, and</li> <li>15) The mini substation final assembly.</li> </ol>	DSP 34-1621	10	
Is a full list, as well as the complete English copies of all transformer designs (including the bushings, core, insulation paper and insulation oil material OEM descriptions), design technical schedules, completed test reports for all transformer individual kVA and voltage ratings offered submitted, and compliant to the Eskom and normative referenced specification requirements?	DSP 34-1621	10	
Is a full list, as well as the complete English copies of all mini sub individual components type test reports (Screened Separable Connectors, MV Cables, LV Cables, Switch disconnectors/MCCBs, and RMUs) in accordance with the Eskom and normative referenced specification requirements	DSP 34-1621	10	

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20/05/2022



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submitted? And is the submission complete for each individual mini sub rating and OEM Component offered?			
Is the mini sub manufactured in accordance with SANS 1029 and DSP 34-1621?	DSP 34-1621	10	
Are completed individual mini sub items technical schedules B signed and printed in hardcopy for each item offered?	Technical schedules A&B	10	
Are completed transformer design technical schedules B signed and printed in hardcopy for each item offered?	DSP 34-1621	10	
Are the mini substation general assembly drawings submitted?	DSP 34-1621	10	
Are mini substation key dimensions provided on the general assembly drawings submitted?	DSP 34-1621	10	
Has type testing been performed at an accredited Test facility where applicable?	DSP 34-1621	10	
Is the mini sub, main components (LV cable and MCCB) and the transformer type testing requirements met in accordance with the Eskom and SANS requirements?	DSP 34-1621 SANS 1029	10	
Are the rated lightning impulse peak with-stand levels for all MV equipment in accordance with the Eskom requirements?	DSP 34-1621	10	
Are the drawings for the mini subs LV panels submitted compliant for the LV earth and neutral bar arrangements required?	DSP 34-1621	10	
Is the rated normal current of the LV busbars submitted and compliant?	DSP 34-1621	10	
Is the LV gland plate arrangement with outgoing feeder cable gland plates provided?	DSP 34-1621	10	
Is an assembly drawing showing all the auxiliary equipment and layouts submitted?	DSP 34-1621	10	
Is the top oil temperature gauge set at 105 degrees Celsius as per the Eskom specification?	DSP 34-1621	10	
Are the make, type and type test reports in accordance with SANS 60947-3 and the standard rating for the main LV switch disconnectors submitted? Only required for the 315 kVA and 500	DSP 34-1621	10	

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kVA mini subs.			
Are drawings for all mini sub auxiliary equipment submitted, including the OEM equipment descriptions?	DSP 34-1621	10	
Are all wiring and ferruling in accordance with D-DT-0868?	DSP 34-1621	10	
Is the technical specification for the surge arresters submitted and compliant to Eskom requirements?	DSP 34-1621	10	
Is a drawing that shows MCCB mounting plate details provided?	DSP 34-1621	10	
Are the total cost calculations for each transformer size submitted in accordance with the Eskom requirements? See transformer losses and capitalisation.	DSP 34-1621	10	
Are drawings of all labels submitted?	DSP 34-1621	10	
Is a full list, as well as the complete English copies of all mini sub and applicable RMU internal arc type test reports as per the Eskom and normative referenced specification requirements submitted for each mini sub and RMU combination offered?	DSP 34-1621	10	
Does the RMU comply with SANS 1874, Eskom specification requirements, and the RMU technical evaluation criteria provided?	DSP 34-1621	10	
Do the submitted drawings show the integral cable test facility which is independent of the cable termination enclosure?	DSP 34-1621	10	
Is the Mini sub offered with Remote tripping, opening, closing and earthing via a hand-held push-button remote control unit?	DSP 34-1621	10	
Are the RMU cable termination enclosures suitable for the termination of 3-core cables of conductor cross-sectional area up to 300 mm <sup>2</sup> ? Or Are the RMU cable termination enclosures suitable for the termination of three 1-core cables of conductor cross-sectional area up to 300 mm <sup>2</sup> ?	DSP 34-1621	10	
Is the submitted cable termination enclosure and clamp arrangement suitable for the required range of cables to be terminated?	DSP 34-1621	10	

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Does the submitted voltage detection system (VDS) meet the requirements of SANS 61243-5?	DSP 34-1621	10	
Is the relay offered and related documentation submitted in accordance with the Eskom specification?	DSP 34-1621	10	
Is the MV interconnection cable to be used in accordance with SANS 1029?	DSP 34-1621	10	
Are the screened separable connectors to be used in accordance with SANS 1332 and D-DT-8017?	DSP 34-1621	10	
Are the marking, labelling and packaging of the mini sub components in accordance with Eskom specification?	DSP 34-1621	10	
<b>Total</b>		<b>350</b>	
<b>NB: The tenderer has to score 80% on this evaluation in order to get compliance. A score below 80% will result in disqualification.</b>			

RMU technical evaluation criteria			
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Is a full list as well as complete English copies of all RMU type test reports as per the Eskom and normative referenced specification requirements submitted for each OEM RMU type offered? In addition is a full list as well as complete English type test certificates as per the specification requirements submitted if available?	DSP 34-1621	10	
Are the RMU tests schedule summaries submitted electronically in the provided excel format and in a printed pdf format for each item offered?	DSP 34-1621	10	
Is the RMU manufactured in accordance with SANS 1874 and DSP 34-1621?	DSP 34-1621	10	
Are completed RMU technical schedules B signed and printed in hardcopy for each item offered?	Technical schedules A&B	10	
Has proof of the tests laboratory's accreditation by an accredited body that is a full ILAC member	SANS 1874	10	

RMU technical evaluation criteria			
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been submitted.			
Is the RMU components type testing requirements met in accordance with the Eskom and SANS requirements?	DSP 34-1621	10	
Are the individual OEM RMU IAC-A IEC 62271-200 passed type test Videos submitted, where applicable for the IEC 62271-202?	DSP 34-1621	10	
Is a copy of the RMU factory routine test certificate submitted?	SANS 1874	10	
Is the RMU Outline/GA drawings submitted?	DSP 34-1621	10	
Are the detailed bills of materials (BOM) for each RMU item offered submitted?	DSP 34-1621	10	
Are the operating procedure drawings submitted?	DSP 34-1621	10	
Are the full technical manuals for the RMU submitted? (Including installation, operating and maintenance manuals)	SANS 1874	10	
Is the technical manual for the earth fault indicator offered submitted?	DSP 34-1621	10	
Are full technical manuals and type description for the circuit breaker protection relay submitted where applicable?	DSP 34-1621	10	
<b>Total</b>		<b>140</b>	
<b>NB: The tenderer has to score 80% on this evaluation in order to get compliance. A score below 80% will result in disqualification.</b>			