



national treasury

Department:
National Treasury
REPUBLIC OF SOUTH AFRICA

Private Bag X115, Pretoria, 0001

**TO: ACCOUNTING OFFICERS OF ALL NATIONAL DEPARTMENTS AND
CONSTITUTIONAL INSTITUTIONS**

ACCOUNTING OFFICERS OF ALL MUNICIPALITIES AND MUNICIPAL ENTITIES

ACCOUNTING AUTHORITIES OF ALL SCHEDULE 2 AND 3 PUBLIC ENTITIES

HEAD OFFICIALS OF PROVINCIAL TREASURIES

INVITATION AND EVALUATION OF BIDS BASED ON A STIPULATED MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT FOR TRANSFORMERS, SHUNT REACTORS AND ASSOCIATED EQUIPMENT

1. PURPOSE

- 1.1 The purpose of this instruction is to regulate the environment within which accounting officers (AOs) and accounting authorities (AAs) may procure **transformers, shunt reactors and associated equipment** which have been designated for local production and content.

2. BACKGROUND

- 2.1 The Preferential Procurement Regulations, 2011 (the regulations) made in terms of section 5 of the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000) which came into effect on 7 December 2011, make provision for Department of Trade and Industry (the dti) to designate sectors in line with national development and industrial policies for local production.
- 2.2 Regulation 9 (1) of the regulations prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 2.3 The dti has designated and determined the stipulated minimum threshold for **transformers, shunt reactors and associated equipment** for local production and content.

3. PRODUCT DESIGNATION

- 3.1 A transformer can be defined as a device that transforms electrical power from one circuit to another. These devices have a critical role at various phases of the electricity delivery process, as the voltage of electricity produced in power stations may not be suitable for transmission, whereas the voltage that is suitable for transmission may not be suitable for use by consumers.

Table 1 categorises transformers in the classes.

Table 1: Classes of Transformers

Transformer Class	Power Rating, MVA (Range)	Voltage Rating, kV (Range)
Class 0	0.001 to 1	220V to 22
Class 1	1.25 to 160	11 to 132
Class 2	40 to 315	220 to 275
Class 3A	360 to 500	220 to 275
Class 3B	40 to 1000	320 to 400
Class 4	40 to 2000	>420 to 800

- 3.2 Whereas Shunt reactors are electrical devices which are intended to consume reactive power measured in volt amperes (VAr) produced by an electrical power system which leads to an increase in the system's energy efficiency. Shunt reactors are commonly used for reactive power compensation in long high-voltage transmission lines and cable systems, as well as power distribution systems.

Table 2 provides the classes of shunt reactors in Mega Volt Ampere reactive (MVar) and voltage rating.

Table 2: Classes of Shunt Reactors

Shunt Reactor	Reactive Power Rating, MVar (Range)	Voltage Rating, kV (Range)
Class 1	<= 80 MVar	11kV to 132 kV
Class 2	>80 MVar	132kV to 275 kV
Class 3	100MVar - 250 MVar	>275kV – 420 kV
Class 4	>100MVar	>420kV – 765 kV

- 3.3 In this instruction, the classes are inclusive of transformers and shunt reactors.
- 3.4 Table 3 provides the stipulated minimum threshold for local content and production for transformers, shunt reactors and associated equipment categorised by classes. To ensure that the minimum local content designated is discharged on manufacturing activities, the components and conversion activities in the manufacture of transformers, shunt reactors and associated equipment are further designated and must also be included in bid invitations.

Table 3: Local Content Designated on a Fully-Built Unit and Components and Conversion Activities against which the overall Local Content must be discharged, per Class of Transformers and Shunt Reactors

Classes of Transformers	Components and manufacturing processes against which the overall local content must be discharged	
	Components and manufacturing processes	% local content
Class 0	Fabrication of the tank and parts (i.e. cutting, welding, sand-blasting and painting)	100%
	Manufacture (rolling, sizing, insulation) of windings and assembly	100%
	Fabrication of the core (sizing, slitting, cutting, stacking and clamping)	100%
	Manufacture of bushings	100%
	Off-circuit tap switch	100%
	Oil (i.e. blending, processing and handling)	100%
	Accessories Category A: Radiators Fans Kiosks Oil conservator Breather canisters	100%
	Accessories Category B: Valves Cables	70% (by the valves instruction) 90% (by the cables instruction)
	Assembly and testing of the fully-built unit	100%
	Total minimum local content (per unit)	90%

Classes of Transformers and Shunt Reactors	Components and manufacturing processes against which the overall local content must be discharged		
	Components and manufacturing processes	% local content	% local content from 01/01/ 2018
Class 1	Fabrication of the tank and parts (i.e. cutting, welding, sand-blasting and painting)	100%	100%
	Manufacture (rolling, sizing, insulation) of windings and assembly	50%	100% (Continuously Transposed Conductor (CTC) localised)
	Fabrication of the core (sizing, slitting, cutting, stacking and clamping)	100%	100%
	Oil (i.e. blending, processing and handling)	100%	100%
	Accessories Category A: Radiators Fans Kiosks Oil conservator Breather canisters	100%	100%
	Accessories Category B: Valves Cables	70% (by the valves instruction) 90% (by the cables instruction)	
	Assembly and testing of the fully-built unit	100%	100%
	Total minimum local content (per unit)	70%	80%

Classes of Transformers and Shunt Reactors	Components and manufacturing processes against which the overall local content must be discharged		
	Components and manufacturing processes	% local content	% local content from 01/01/2020
Class 4	Winding Conductor	0%	100% Strip enamelled conductor and CTC localised
	Oil (i.e. blending, processing and handling)	100%	100%
	Accessories Category A: Radiators Fans Kiosks Oil conservator Breather canisters	100%	100%
	Accessories Category B: Valves Cables	70% (by the valves instruction) 90% (by the cables instruction)	
	Total minimum local content (per unit)	10%	20%

3.5 The following primary input materials used in the manufacture of transformers, shunt reactors and associated equipment are deemed as local in this designation:

- steel products (i.e. plates, laminated sheets, coils, grain-oriented electrical core, amorphous core);
- raw copper rod, sheets and twin enamelled epoxy conductor;
- paper and boards for insulation;
- aluminium billets and rod;
- porcelain insulators (used in shunt reactor cores)
- ceramics/porcelain; reinforced fibre glass and/or polymers; and
- un-blended transformer oil.

3.6 The designated local content thresholds (on the components/conversion processes and on the overall) apply to new purchases; refurbishments, replacements and general overhauls.

3.7 Organs of state may contact the dti in instances where the stipulated minimum threshold for local content cannot be met in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

3.8 For further information, bidders and procuring state organs may contact the Metals Fabrication, Capital and Rail Transport Equipment Unit within the dti at telephone 012 394 1356 or email Thandi Phele at Tphele@thedti.gov.za

3.9 Bid specifications for the designated products in this instruction may be may be done in collaboration with the dti

4. INVITATION OF BIDS FOR TRANSFORMERS, SHUNT REACTORS AND ASSOCIATED EQUIPMENT

4.1 Bids in respect of transformers, shunt reactors and associated equipment (broken into classes as shown in table 3 above) must contain a specific bidding condition that:

4.1.1 Only locally produced or locally manufactured transformers, shunt reactors and associated equipment with a stipulated minimum threshold for local production and content will be considered;

4.1.2 If the quantity; input materials; and/or components of transformers, shunt reactors and associated equipment required cannot be wholly sourced from South African (SA) based manufacturers to achieve the designated local content threshold at any particular time, bidders should request and obtain written exemption from the dti. Such exemption applications should be submitted and approvals should be obtained prior to the closure of the bid(s) concerned. the dti, in consultation with the procuring organ of state and the local industry, will consider the exemption applications on a case-by-case basis and will consider the following:

- required volumes in the particular bid;
- available collective SA industry manufacturing capacity at that time;
- delivery times;
- availability of input materials and components;
- technical considerations including operating conditions; and
- materials of construction

4.1.3 Bidders must clearly indicate in their bids the quantities to be supplied and the level of local content for each product.

4.2 AOs/AAs must stipulate in bid invitations that:

4.2.1 The exchange rate to be used for the calculation of local production and content must be the exchange rate published by the South African Reserve Bank (SARB) on the date of the advertisement of the bid.

4.2.2 Only the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 must be used to calculate local content.

4.3 The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the following formula which must be disclosed in the bid documentation:

$$LC = \left(1 - \frac{x}{y}\right) * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

- In the case of turnkey projects x and y will only refer to the value of the Transformers, Shunt reactors and associated equipment in the project
- Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by the SARB on the date of advertisement of the bid.

- 4.4 AOs/AAs must clearly stipulate in the bid documentation that the SABS approved technical specification number SATS 1286:2011 and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)] are accessible to all potential bidders on the dti's official website http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.
- 4.5 For the purpose of paragraphs 4.1, 4.2 and 4.3 above, the attached Declaration Certificates for Local Production and Content (SBD/MBD 6.2) must form part of the bid documentation. The **SBD 6.2** is for use by all national and provincial departments, constitutional institutions and public entities listed in schedules 2, 3A, 3B, 3C and 3D to the Public Finance Management Act whilst the **MBD 6.2** is for use by all municipalities and municipal entities to which the Municipal Finance Management Act (MFMA) apply.
- 4.6 AOs/AAs must stipulate in the bid documentation that:
- 4.6.1 the Declaration Certificate for Local Production and Content (SBD / MBD 6.2) together with the Annex C (Local Content Declaration: Summary Schedule) must be completed, duly signed and submitted by the bidder at the closing date and time of the bid; and
- 4.6.2 the rates of exchange quoted by the bidder in paragraph 4.1 of the Declaration Certificate will be verified for accuracy.
- 5. EVALUATION OF BIDS FOR TRANSFORMERS, SHUNT REACTORS AND ASSOCIATED EQUIPMENT**
- 5.1 A two stage evaluation process may be followed to evaluate the bids received.
- 5.1.1 **First stage: Evaluation in terms of the stipulated minimum threshold for local production and content**
- (a) Bids must be evaluated in terms of the minimum threshold stipulated in the bid documents.
- (b) The declaration made by the bidder in the Declaration Certificate for Local Content (SBD / MBD 6.2) and Annex C (Local Content Declaration: Summary Schedule) must be used for this purpose. If the bid is for more than one product, the local content percentages for each product contained in Annex C must be used.
- (c) The amendment of the stipulated minimum threshold for local production and content is not allowed.
- (d) AOs/AAs must ensure that the **Declaration Certificate for Local Content (SBD/MBD 6.2)** and **Annex C (Local Content Declaration: Summary Schedule)** are submitted as part of the bid documentation
- (e) AOs/ AAs must verify the accuracy of the rates of exchange quoted by the bidder in paragraph 4.1 of the Declaration Certificate for Local Content (SBD / MBD 6.2)
- 5.1.2 **Second stage: Evaluation in terms of the 80/20 or 90/10 preference point systems**
- (a) Only bids that achieve the minimum stipulated threshold for local production and content may be evaluated further. Unless otherwise exempted by the

Minister of Finance, the evaluation must be done in accordance with the 80/20 or 90/10 preference point systems prescribed in Preferential Procurement Regulations, 2011.

- (b) AOs/AAs must ensure that bids for products that are designated in this instruction are awarded at prices that are market related taking into account, among others, benchmarking prices, value for money and economies of scale.
- (c) Where appropriate, prices may be negotiated with short listed or preferred bidders. Such negotiations must not prejudice any other bidders.

5.2 Benchmark / market related prices

5.2.1 AOs/AAs are required to ensure that reasonable or market related prices are secured for the products being procured taking into account factors such as benchmark prices, value for money and economies of scale.

5.2.2 For this purpose, AOs/AAs may approach the dti to assist, where possible, with benchmark prices. The dti will be in a position to provide price references for the different products that have been designated for local production and content.

6. EVALUATION OF BIDS BASED ON FUNCTIONALITY

Whenever it is deemed necessary to evaluate bids on the basis of functionality, the prescripts contained in regulation 4 of the Preferential Procurement Regulations, 2011 and paragraphs 6 and 11 of the Implementation Guide must be followed.

7. POST AWARD AND REPORTING REQUIREMENTS

7.1 Once bids are awarded, the dti must be:

7.1.1 Notified of all the successful bidders and the value of the contracts; and

7.1.2 Provided with copies of the contracts, the SBD/MBD 6.2 Certificates together with the annex C submitted by the successful bidder(s).

7.2 The purpose of the requirements of paragraph 7.1 above is for the dti to among others, conduct compliance audits with a view to monitor the implementation of the industrial development strategies.

7.3 Contractors must not be allowed to sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.

7.4 Where, after the award of a bid, contractors experience challenges in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

8. CONTACT INFORMATION

8.1 Any enquiries in respect of Local Production and Content and all documents to be submitted to the dti must be directed as follows:

The Department of Trade and Industry
Private Bag X 84
Pretoria
0001

For Attention:
Dr. Tebogo Makube
Chief Director: Industrial Procurement
Tel: (012) 394 3927
Fax: (012) 394 4927
EMAIL: TMakube@thedti.gov.za

9. APPLICABILITY

9.1 This instruction applies to all national and provincial departments, constitutional institutions, public entities listed in schedules 2 and 3 to the PFMA and municipalities and municipal entities to which the MFMA apply.

10. DISSEMINATION OF INFORMATION CONTAINED IN THIS INSTRUCTION

10.1 Heads of provincial treasuries are requested to bring the contents of this instruction to the attention of accounting officers and supply chain management officials of their respective provincial departments.

10.2 Accounting officers of national and provincial departments are requested to bring the contents of this instruction to the attention of accounting authorities and the supply chain management officials of Schedule 3A and 3C public entities reporting to their respective executive authorities.

10.3 Accounting officers of municipalities and municipal entities are requested to bring the contents of this instruction to the attention of the supply chain management officials of their municipalities and municipal entities.

10.4 Accounting authorities of Schedule 2, 3B and 3D public entities are requested to bring the contents of this instruction to the attention of the supply chain management officials of their public entities.

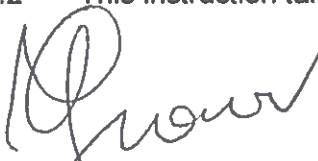
11. NOTIFICATION TO THE AUDITOR-GENERAL

11.1 A copy of this instruction will be forwarded to the Auditor-General for notification.

12. AUTHORITY FOR THIS INSTRUCTION AND EFFECTIVE DATE

12.1 The Minister of Finance has approved the issuance of this instruction in terms of regulation 9(2) of the regulations.

12.2 This instruction takes effect on **21 October 2015**


KENNETH BROWN
CHIEF PROCUREMENT OFFICER
DATE: 28/9/2015