

- 18.5 Transnet may cancel any schedule or Work Order hereto at any time on giving the Service Provider 30 [thirty] days' written notice.
- 18.6 Notwithstanding this clause 18, either Party may cancel the Agreement without cause by giving 30 [thirty] days prior written notice thereof to the other Party.

19 CONSEQUENCE OF TERMINATION

- 19.1 Termination in accordance with clause 18 [*Term and Termination*] shall not prejudice or affect any right of action or remedy which shall have accrued or shall thereafter accrue to either Party and all provisions which are to survive the Agreement or impliedly do so shall remain in force and in effect.
- 19.2 On termination of the Agreement or a Work Order, the Service Provider will immediately deliver up, and procure that its Personnel will immediately deliver up to Transnet, all Deliverables and property belonging to Transnet [or, in the event of termination of a Work Order, such as is relevant to that Work Order] which may be in the possession of, or under the control of the Service Provider, and certify to Transnet in writing that this has been done.
- 19.3 To the extent that any of the Deliverables and property referred to in clause 19.2 above are in electronic form and contained on non-detachable storage devices, the Service Provider will provide Transnet with unencrypted copies of the same on magnetic media and will irretrievably destroy and delete copies so held.
- 19.4 In the event that the Agreement is terminated by the Service Provider under clause 18.2 [*Term and Termination*], or in the event that a Work Order is terminated by Transnet under clause 18.5 [*Term and Termination*], Transnet will pay to the Service Provider all outstanding Fees [apportioned on a *pro rata* basis] relating to the work undertaken by the Service Provider up until the date of such termination. Transnet will also pay the costs of any goods and materials ordered by the Service Provider in relation to the such work for which the Service Provider has paid or is legally obliged to pay, in which case, on delivery of such goods or materials, the Service Provider will promptly deliver such goods and materials to Transnet or as it may direct.
- 19.5 The provisions of clauses 0 [*Definitions*], 6 [*Warranties*], 12 [*Intellectual Property Rights*], 14 [*Limitation of Liability*], 16 [*Confidentiality*], 19 [*Consequence of Termination*], 25 [*Dispute Resolution*] and 29 [*Governing Law*] shall survive termination or expiry of the Agreement.
- 19.6 If either Party [**the Defaulting Party**] commits a material breach of the Agreement and fails to remedy such breach within 30 [thirty] Business Days of written notice thereof, the other Party [hereinafter **the Aggrieved Party**], shall be entitled, in addition to any other rights and remedies that it may have in terms of the Agreement, to terminate the Agreement forthwith without any liability and without prejudice to any claims which the Aggrieved Party may have for damages against the Defaulting Party.
- 19.7 Should:
- a) the Service Provider effect or attempt to effect a compromise or composition with its creditors; or
 - b) either Party be provisionally or finally liquidated or placed under judicial management, whether provisionally or finally; or

- c) either Party cease or threaten to cease to carry on its normal line of business or default or threaten to default in the payment of its liabilities generally, or commit any act or omission which would be an act of insolvency in terms of the Insolvency Act, 24 of 1936 [as may be amended from time to time];

then the other Party shall be entitled, but not obliged, to terminate the Agreement on written notice, in which event such termination shall be without any liability and without prejudice to any claims which either Party may have for damages against the other.

20 ASSIGNMENT

Neither Party may assign the benefit of the Agreement or any interest hereunder except with the prior written consent of the other. Further, in the event that Transnet wishes to assign or novate the Agreement to any third party, the Service Provider agrees that it shall not unreasonably withhold or delay its consent to such assignment or novation and that it shall only be entitled to recover from Transnet any reasonable legal costs incurred by it as a direct result of such assignment or novation.

21 FORCE MAJEURE

21.1 Neither Party shall have any claim against the other Party arising from any failure or delay in the performance of any obligation of either Party under the Agreement caused by an act of *force majeure* such as acts of God, fire, flood, war, strike, lockout, industrial dispute, government action, laws or regulations, riots, terrorism or civil disturbance, defaults, delays or discontinuance on the part of independent contractors, suppliers, or other circumstances or factors beyond the reasonable control of either Party, and to the extent that the performance of obligations of either Party hereunder is delayed by virtue of the foregoing, any period stipulated for any such performance shall be reasonably extended.

21.2 Each Party will take all reasonable steps by whatever lawful means that are available, to resume full performance as soon as practicable and will seek agreement to modification of the relevant provisions of the Agreement in order to accommodate the new circumstances caused by the act of *force majeure*. If a Party fails to agree to such modifications proposed by the other Party within 90 [ninety] days of the act of *force majeure* first occurring, either Party may thereafter terminate the Agreement with immediate notice.

22 EQUALITY AND DIVERSITY

22.1 The Service Provider will not victimise, harass or discriminate against any employee of either Party to the Agreement or any applicant for employment with either Party to the Agreement due to their gender, race, disability, age, religious belief, sexual orientation or part-time status. This provision applies, but is not limited to employment, upgrading, work environment, demotion, transfer, recruitment, recruitment advertising, termination of employment, rates of pay or other forms of compensation and selection for training.

22.2 Both Parties to the Agreement undertake that they will not, and shall procure that its employees, agents and Subcontractors will not breach any applicable discrimination legislation and any amendments and re-enactments thereof.

23 NON-WAIVER

23.1 Failure or neglect by either Party, at any time, to enforce any of the provisions of the Agreement, shall not, in any manner, be construed to be a waiver of any of that Party's rights in that regard and in terms of the Agreement.

23.2 Such failure or neglect shall not, in any manner, affect the continued, unaltered validity of the Agreement, or prejudice the right of that Party to institute subsequent action.

24 PARTIAL INVALIDITY

If any provision of the Agreement shall be held to be invalid, illegal or unenforceable, or shall be required to be modified, the validity, legality and enforceability of the remaining provisions shall not be affected thereby.

25 DISPUTE RESOLUTION

25.1 Should any dispute of whatsoever nature arise between the Parties concerning the Agreement, the Parties shall try to resolve the dispute by negotiation within 10 [ten] Business Days of such dispute arising.

25.2 If the dispute has not been resolved by such negotiation, either of the Parties may refer the dispute to AFSA and notify the other Party accordingly, which proceedings shall be held in Johannesburg.

25.3 Such dispute shall be finally resolved in accordance with the rules of AFSA by an arbitrator or arbitrators appointed by AFSA.

25.4 This clause constitutes an irrevocable consent by the Parties to any proceedings in terms hereof, and neither of the Parties shall be entitled to withdraw from the provisions of this clause or claim at any such proceedings that it is not bound by this clause 25.

25.5 This clause 25 is severable from the rest of the Agreement and shall remain in effect even if the Agreement is terminated for any reason.

25.6 This clause 25 shall not preclude either Party from seeking urgent relief in a court of appropriate jurisdiction, where grounds for urgency exist.

26 ADDRESSES FOR NOTICES

26.1 The Parties to the Agreement select the physical addresses and facsimile numbers, as detailed hereafter, as their respective addresses for giving or sending any notice provided for or required in terms of the Agreement, provided that either Party shall be entitled to substitute such other address or facsimile number, as may be, by written notice to the other:

a) **Transnet**

(i) For legal notices:

[●]

Fax No. [●]

Attention: Legal Department

- (ii) For commercial notices: [●]
Fax No. [●]
Attention: [●]

b) **The Service Provider**

- (i) For legal notices: [●]
Fax No. [●]
Attention: [●]

- (ii) For commercial notices: [●]
Fax No. [●]
Attention: [●]

26.2 Any notice shall be addressed to a Party at its physical address or delivered by hand, or sent by facsimile.

26.3 Any notice shall be deemed to have been given:

- a) if hand delivered, on the day of delivery; or
- b) if posted by prepaid registered post, 10 [ten] days after the date of posting thereof; or
- c) if faxed, on the date and time of sending of such fax, as evidenced by a fax confirmation printout, provided that such notice shall be confirmed by prepaid registered post on the date of dispatch of such fax, or, should no postal facilities be available on that date, on the next Business Day.

27 WHOLE AND ONLY AGREEMENT

27.1 The Parties hereby confirm that the Agreement constitutes the whole and only agreement between them with regard to the subject matter of the Agreement.

27.2 The Parties hereby confirm that the Agreement replaces all other agreements which exist or may have existed in any form whatever between them, with regard to the subject matter dealt with in the Agreement, including any annexures, appendices, schedules or Work Order(s) appended hereto.

28 AMENDMENT AND CHANGE CONTROL

28.1 Any requirement for an amendment or change to the Agreement or to a Work Order shall only be valid if it is in writing, signed by both Parties and added to the Agreement as an addendum hereto.

28.2 In the event the Parties cannot agree upon changes, the Parties shall in good faith seek to agree any proposed changes using the dispute resolution procedures in clause 25 [Dispute Resolution].

29 GOVERNING LAW

The Agreement is exclusively governed by and construed in accordance with the laws of the Republic of South Africa and is subject to the jurisdiction of the courts of the Republic of South Africa.

29.1 Change of Law

In the Agreement, unless the context otherwise requires, references to a statutory provision include references to that statutory provision as from time to time amended, extended or re-enacted and any regulations made under it, provided that in the event that the amendment, extension or re-enactment of any statutory provision or introduction of any new statutory provision has a material impact on the obligations of either Party, the Parties will negotiate in good faith to agree such amendments to the Agreement as may be appropriate in the circumstances. If, within a reasonable period of time, the Service Provider and Transnet cannot reach agreement on the nature of the changes required or on modification of Fees, Deliverables, warranties, or other terms and conditions, either Party may seek to have the matter determined in accordance with clause 25 [*Dispute Resolution*] above.

30 COUNTERPARTS

The Agreement may be signed in any number of counterparts, all of which taken together shall constitute one and the same instrument. Either Party may enter into the Agreement by signing any such counterpart.

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ANNEXURE A : B-BBEE PREFERENCE POINTS CLAIM FORM

This preference form contains general information and serves as a claim for preference points for Broad-Based Black Economic Empowerment [B-BBEE] Status Level of Contribution. The bidder's claim for preference points in respect of its compliance targets for Further Recognition Criteria [FRC] will be evaluated in accordance with the FRC table incorporated in the RFP documents.

1. INTRODUCTION

1.1 A total of 20 preference points shall be awarded as follows:

	POINTS
B-BBEE STATUS LEVEL OF CONTRIBUTION	10
FURTHER RECOGNITION CRITERIA [FRC] (Future)	10
Total points for B-BBEE and FRC shall not exceed	20

1.2 Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System [SANAS] or a Registered Auditor approved by the Independent Regulatory Board of Auditors [IRBA] or an Accounting Officer as contemplated in the Close Corporation Act [CCA] together with the bid will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.3 Transnet reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by Transnet.

2. GENERAL DEFINITIONS

2.1 **"all applicable taxes"** include value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;

2.2 **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;

2.3 **"B-BBEE status of contributor"** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

2.4 **"bid"** means a written offer in a prescribed or stipulated form in response to an invitation by Transnet for the provision of goods, works or services;

2.5 **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 [Act No. 53 of 2003];

2.6 **"consortium or joint venture"** means an association of persons for the purpose of combining their expertise, property, capital, efforts, skills and knowledge in an activity for the execution of a contract;

2.7 **"contract"** means the agreement that results from the acceptance of a bid by Transnet;

- 2.8 **"control"** means the possession and exercise of legal authority and power to manage the assets, goodwill and daily operations of a business and the active and continuous exercise of appropriate managerial authority and power in determining the policies and directing the operations of the business;
- 2.9 **"EME"** means any enterprise with an annual total revenue of R5 [five] million or less;
- 2.10 **"firm price"** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs and excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 **"functionality"** means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 2.12 **"person"** includes reference to a juristic person;
- 2.13 **"subcontract"** means the primary contractor's assigning or leasing or making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract;
- 2.14 **"total revenue"** bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Empowerment Act and promulgated in the Government Gazette on 9 February 2007;
- 2.15 **"trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 2.16 **"trustee"** means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The bidder obtaining the highest number of total points for the evaluation criteria as enumerated in Section 2 of the RFP will be awarded the contract.
- 3.2 Points scored will be rounded off to 2 [two] decimal places.
- 3.3 In the event of equal points scored, the bid will be awarded to the bidder scoring the highest number of preference points for B-BBEE.
- 3.4 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid will be the one scoring the highest score for functionality.
- 3.5 Should two or more bids be equal in all respect, the award shall be decided by the drawing of lots.

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION

- 4.1 Preference points shall be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of Points [Maximum 10]
1	10
2	9
3	8
4	6
5	4
6	3
7	2
8	1
Non-compliant contributor	0

Note: Refer to Section 1 of the RFP document for further information in terms of B-BBEE ratings.

- 4.2 Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 4.3 A trust, consortium or joint venture will qualify for points for its B-BBEE status level as a legal entity, provided that the entity submits its B-BBEE status level certificate.
- 4.4 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 4.5 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialised scorecard contained in the B-BBEE Codes of Good Practice.
- 4.6 A person will not be awarded points for B-BBEE status level if it is indicated in the bid documents that such a bidder intends subcontracting more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not qualify for at least the same number of points that such a bidder qualifies for, unless the intended subcontractor is an EME that has the capability and ability to execute the subcontract.
- 4.7 A person awarded a contract may not subcontract more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.

5. B-BBEE STATUS AND SUBCONTRACTING

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

B-BBEE Status Level of Contributor _____ = _____ [maximum of 10, points]

Note: Points claimed in respect of this paragraph 5.1 must be in accordance with the table reflected in paragraph 4.1 above and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or an Accounting Officer as contemplated in the Close Corporation Act.

5.2 Subcontracting:

Will any portion of the contract be subcontracted? YES/NO [delete which is not applicable]

If YES, indicate:

- (i) What percentage of the contract will be subcontracted?%
- (ii) The name of the subcontractor
- (iii) The B-BBEE status level of the subcontractor
- (iv) Is the subcontractor an EME? YES/NO

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BID DECLARATION

I/we, the undersigned, who warrants that he/she is duly authorised to do so on behalf of the company/firm certify that points claimed, based on the B-BBEE status level of contribution indicated in paragraph 6 above, qualifies the company/firm for the preference(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct.
- (ii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 6 above, the contractor may be required to furnish documentary proof to the satisfaction of Transnet that the claims are correct.
- (iii) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, Transnet may, in addition to any other remedy it may have:
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) restrict the bidder or contractor, its shareholders and directors, and/or associated entities, or only the shareholders and directors who acted in a fraudulent manner, from obtaining business from Transnet for a period not exceeding 10 years, after the *audi alteram partem* [hear the other side] rule has been applied; and/or
 - (e) forward the matter for criminal prosecution.

WITNESSES:

1.

2.

.....

SIGNATURE OF BIDDER

DATE:

COMPANY NAME:

ADDRESS:.....

.....

BID REFERENCE NO: CRAC VAR 8242

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Annexure B

REQUEST FOR PROPOSAL

**GUIDELINES FOR COMPLETION OF THE
SUPPLIER DEVELOPMENT BID DOCUMENT**

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Note

For the purposes of this document, any reference to a/the "**Service Provider**" shall be construed to mean a reference to a Respondent (in terms of this RFP) and/or to a successful Respondent (to whom the business is to be awarded), as so indicated by the context hereinafter.

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1 What is Supplier Development?

The Supplier Development (**SD**) Programme is an initiative of the Department of Public Enterprises (**DPE**) supported by Transnet. The aim of SD is to increase the competitiveness, capability and capacity of the South African supply base where there are comparative advantages and potential for local or regional supply. This can be achieved through skills transfer, , as well as building new capability and capacity in the South African supply base. In addition, SD has its roots grounded firmly around the transformation of South Africa and the empowerment of previously disadvantaged individuals and enterprises.

2 Background and Guidance on the Supplier Development Objectives for South Africa

As a developing economy with inherent structural and social imbalances, South Africa is facing the significant economic challenge of increasing growth in a manner that includes all South Africans. The historical lack of investment in infrastructure in South Africa has negatively impacted on local industry, resulting in a loss of key skills and a decrease in manufacturing industry capabilities. To respond to this, Government policies have been designed to address these imbalances and to act as a catalyst of change for the benefit of South Africa.

One of these Government policies, the New Growth Path (**NGP**) aims to enhance growth, employment creation and equity by reducing the dependencies of South African industries on imports, and promoting the development of skills and capabilities that are in short supply within the country. It identifies strategies that will enable South Africa to grow in a more equitable and inclusive manner and promotes the development of new industry to attain South Africa's developmental agenda.

Transnet's SD effort is closely aligned to the NGP objectives and as a result we are able to fulfil our commitment to sustainability within South Africa whilst at the same time addressing other corporate objectives including increasing productivity and efficiency, volume growth, capital investment, financial stability, funding, human capital, SHEQ regulatory compliance and improving customer service.

The combined objectives of Transnet and Government will be realised through:

- aggressively implementing capital investment plans which will result in competitive local industries;
- improving operational efficiency;
- using procurement to influence the development of the local supplier industry; and
- ensuring it creates sufficient economic opportunities for the participation of previously disadvantaged groups.

This will lead to Transnet achieving its long-term objective of increasing both shareholder and societal value using its procurement expenditure to ensure local development through the sustainable growth of capability and capacity in South Africa's supply chain and the inclusion of the previously disadvantaged individuals in the economy in a manner that is beneficial to Transnet, South African industry and the people of South Africa. As a result this State Owned Company (**SOC**) is able to fulfil its responsibility as the biggest link in the South African freight logistics chain whilst complementing the objectives of Government.

3 Transnet’s Supplier Development Objectives and Framework

To aid its implementation of SD, Transnet has adapted an existing framework from the DPE. This framework allows for a basic set of principles to be applied to appropriately target SD initiatives. Supplier Development initiatives aim to assist local suppliers in developing their competitive advantage through increasing their capability and capacity potential. Hence the framework has been termed the Increased Competitiveness, Capability and Capacity (IC³) Supplier Development Classification Matrix.

This framework encapsulates the types of SD opportunities which Transnet currently considers effective and allows Transnet to move its SD structure away from a dynamic policy environment towards a framework that is designed around general Supplier Development objectives. This enables Transnet to adopt a standard structure but also allows the flexibility to reconsider emphasis on certain aspects as objectives change. The IC³ Matrix (refer to Figure 1 below) categorises SD opportunities in a matrix based on their value, extent of industrial leverage and strategic importance to Transnet. Further categorisation of opportunities into the relevant quadrants is based on supplier-buyer power, industrial complexity, risk and the length of procurement period.

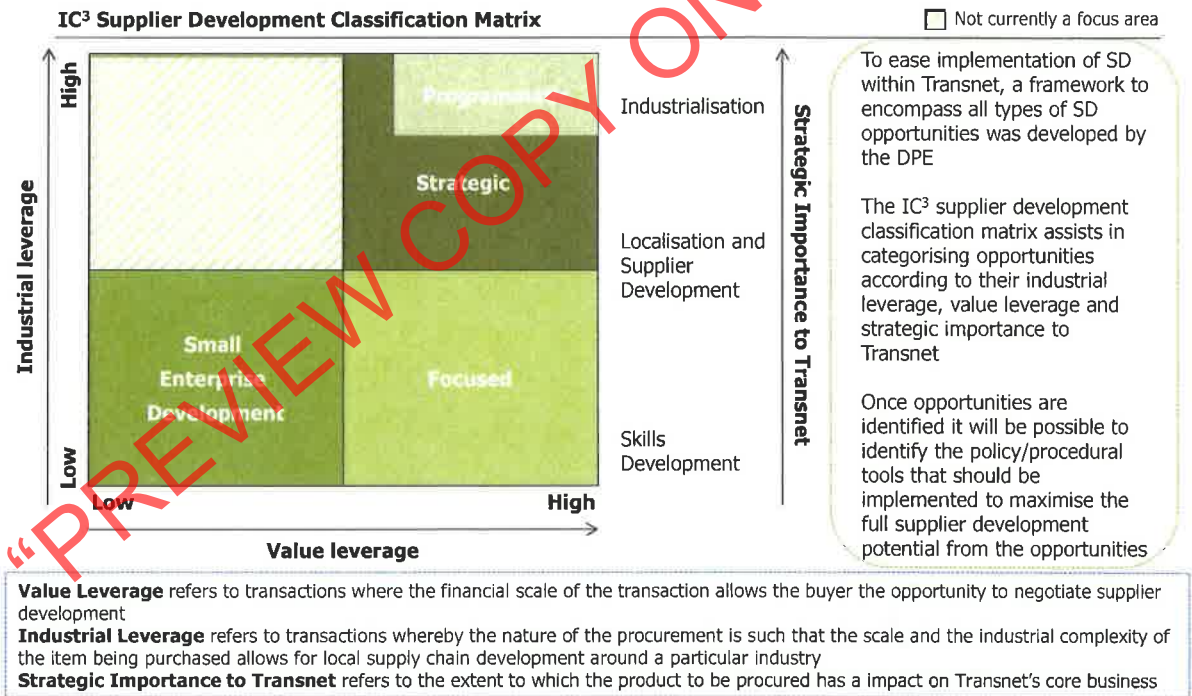


Figure 1: The IC³ Supplier Development Classification Matrix

In order for Service Providers to successfully meet the needs of a particular initiative, a detailed understanding of each quadrant is required.

3.1 Programmatic

Programmatic initiatives follow a longer than normal planning horizon and generally exceed the funding capacity of Transnet’s balance sheet. Collaboration between the SOC and Government is achieved through focused task teams whereby infrastructure development and industrialisation is achieved through joint support and in some cases public spending. Investment is focused in plant,

technology and skills in both intermediate and advanced capabilities to develop competitive advantage.

3.2 **Strategic**

Strategic initiatives follow a three to five year planning horizon, involving investment in at least plant, technology and/or skills in intermediate capabilities. This enforces the need for multinational corporations and Original Equipment Manufacturers (**OEMs**) to develop a certain percentage of their products locally. Strategic initiatives can therefore be used to achieve Transnet's objectives by increasing the competitiveness, capability and efficiency of local suppliers. Strategic initiatives can sometimes focus on advanced capabilities but will in most cases require Government support to develop local capability.

3.3 **Focused**

Focused initiatives include all high value transactions with limited industrial leverage and medium to low strategic importance. These initiatives address short to medium-term contracts that can be leveraged to encourage Supplier Development, with a focus on investment in technology or skills to enhance existing local capability. Emphasis will largely be placed on benefiting previously disadvantaged individuals. The overall result improves the socio-economic environment by creating competitive local suppliers and furthers objectives of empowerment, transformation and regional development.

3.4 **Small Enterprise Development**

Small Enterprise Development initiatives are typically of low value and have no industrial leverage as they are characterised by typically low complexity goods and high competition. These initiatives concentrate on increasing the capability of small local suppliers and are targeted toward historically disadvantaged individuals and communities, providing basic skills development and improving local employment and quality job creation. It includes a wide range of non-financial services that help entrepreneurs start new business and grow existing ones.

4 **Response based on the IC³ Matrix Quadrants**

Based on the supplier-buyer power, industrial complexity, risk and the length of procurement period, the Service Provider is expected to formulate a SD Bid Document to identify the opportunities that it will pursue. Ideally the SD Bid Document should address factors that are specific to the applicable quadrant of the IC³ matrix.

Transnet has identified a number of opportunities which may aid a Service Provider in formulating its response based on each quadrant. Each of the opportunities identified by the Service Provider should have a direct or indirect effect on the value it creates for the country in order to maximise the socio-economic impact.

Based on the strategic objectives, emphasis on SD evaluation categories will differ by IC³ quadrants

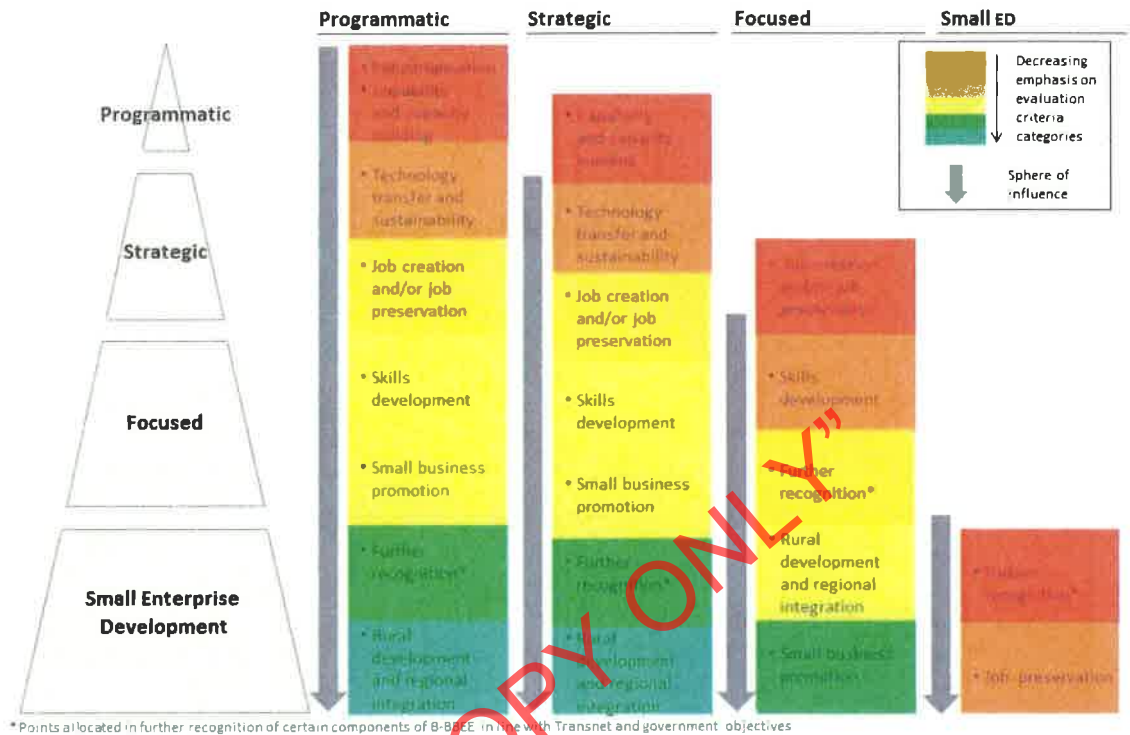


Figure 2: Transnet value capture through supplier influence

4.1 Programmatic

The strategic objective of “Programmatic transactions” is to assist Government to achieve its industrialisation objectives through the development of the local supplier base, in order to increase the cost efficiency of SOC procurement, support and maintenance programmes. In order to satisfy this objective a number of focus areas and key outcomes have been identified:

a) Programmatic Focus Areas -

- Industrialisation
- Capability and capacity building in South Africa
- Technology transfer
- Skills development related to the manufacturing process and the industry
- Development of new technology and innovation
- Investment in plant
- Development of local companies aligned to empowerment objectives

b) Key Outcomes -

- Industrialisation
- Manufacturing capability and capacity building
- Technology transfer
- Skills development

4.2 Strategic

The main objective of Strategic transactions is to leverage local downstream suppliers through large-scale SOC procurement in order to develop a competitive local supplier base. In response to these objectives the following are the specific focus areas and key outcomes applicable:

- a) Strategic Focus Areas -
 - Capability and capacity building in South Africa
 - Transfer of technology and innovation to local suppliers from foreign OEM's
 - Skills development related to the industry
 - Development of local companies aligned to empowerment objectives
- b) Key Outcomes -
 - Increased S.A. manufacturing capability and capacity
 - Increased technology transfer
 - Skills development
 - Job creation/preservation

4.3 Focused

Focused initiatives assist local suppliers to improve their performance, enhance their existing production and skills capabilities with emphasis being placed on benefiting previously disadvantaged individuals and rural development. In order to satisfy these objectives a number of focus areas and key outcomes have been identified:

- a) Focused Focus Areas -
 - Developing a local supplier base that supports preferential procurement outcomes
 - Developing skills within the specific industry
 - Creating opportunity for job preservation
 - Reducing income inequality in specific regions
- b) Key Outcomes -
 - Empowerment
 - Skills development
 - Rural development
 - Job creation/preservation

4.4 Small Business Development

Enterprise Development (**ED**) objectives are centred around assisting local suppliers to improve their skills by placing increased emphasis on benefiting previously disadvantaged individuals and rural development in line with the Broad-Based Black Economic Empowerment (B-BBEE) strategy. The following focus areas and key outcomes have been identified:

- a) Small Business Development Focus Areas -
 - Providing small businesses with opportunities and preferential trading terms, increased focus on Black woman-owned enterprises, focus on the youth, people with disabilities and region-specific initiatives

- Empowering previously disadvantaged individuals to create their own businesses resulting in quality job creation
- b) Key Outcomes -
- Empowerment
 - Rural development
 - Skills development
 - Job creation/preservation

Based on these focus areas and key outcomes, a Service Provider would need to actively focus on the quadrant-specific requirements in order to maximise the potential commercial benefit for Transnet, South Africa and themselves. In doing so value can be created across all lines of reporting resulting in continued relations.

5 Supplier Development Category Definitions and High Level Descriptions

5.1 Industrialisation

Industrialisation refers specifically to industrial development that will result in globally leading capabilities within South Africa.

Criteria	Description
➤ Value of investment in plant	➤ Quantification of the monetary value invested in machinery, equipment and/or buildings as a result of this RFP
➤ Percentage of the investment of plant purchased in South Africa	➤ Percentage value invested in machinery, equipment and/or buildings that are sourced from local companies
➤ Reduction in import leakage	➤ A percentage indication of the increase in locally supplied products and therefore the resultant decrease in imports as a result of the award of a contract
➤ Potential increase in export content	➤ The percentage increase in exports that will result from increased industrial capability locally in relation to the award of a contract

5.2 South African Capability and Capacity Building

South African capability and capacity building refers specifically to industrial development that focuses on value-added activities for the local industry through manufacturing or service-related functions.

Criteria	Description
➤ Value-added manufacturing activity/activities to be undertaken in South Africa	➤ Description of value-added activities to be performed during the contract period in South Africa
➤ Service-related functions to be undertaken in South Africa	➤ Description of service-related functions to be performed during the contract period in South Africa
➤ Number of local suppliers in the supply chain	➤ Number of South African suppliers that are to be utilised in the fulfilment of a contract

5.3 Technology transfer/sustainability

Technology improvements are intangible assets with significant economic value. The Service Provider will be measured on its plan to transfer knowledge and IP to contribute towards capability building of the local supply base, which ultimately leads to improved efficiency and capability. Plans to assist in this by a Service Provider must be assessed to enable the local supply base to potentially export its newly-acquired technological know-how, thereby decreasing capital leakage.

Criteria	Description
Technology transfer including: <ul style="list-style-type: none"> ➤ Methods of manufacturing ➤ Introduction of new technologies ➤ IP transfer (number and value) 	<ul style="list-style-type: none"> ➤ Introduction of a new/improved method of manufacturing ➤ Provision of new technologies: <ul style="list-style-type: none"> ○ For processes ○ ICT ➤ The provision of patents, trademarks and copyrights
<ul style="list-style-type: none"> ➤ Number of local suppliers to be evaluated for integration into the OEM supply chain 	<ul style="list-style-type: none"> ➤ An indication of the number of South African suppliers that an OEM/Service Provider plans to evaluate for possible inclusion into its supply chain, should it meet the requirements

5.4 Skills development

Skills development indicates the company's commitment to education and whether that fits in with targeted groups (artisans, technicians, etc.). Consideration needs to be directed towards the adequate quality and value of skills so developed in order to allow for better evaluation in line with Government's objectives.

Criteria	Description
<ul style="list-style-type: none"> ➤ Number of downstream supply chain individuals to be trained including: <ul style="list-style-type: none"> • Number of artisans trained • Number of technicians trained • Number of black people trained • Total number of people trained 	<ul style="list-style-type: none"> ➤ Number of individuals that the Service Provider plans to train in the local industry over the contract period; training undertaken in the previous year will be taken into account ➤
<ul style="list-style-type: none"> ➤ Number of company employees to be trained 	<ul style="list-style-type: none"> ➤ Number of individuals within the company (in South Africa) that the Service Provider plans to train over the contract period; training undertaken in the previous year will not be taken into account as past employee training appears in the skills development pillar of the B-BBEE scorecard; criteria broken down as for industry training above
<ul style="list-style-type: none"> ➤ Certified training (yes/ no) 	<ul style="list-style-type: none"> ➤ Compliance with local and/or international skills accreditation

Criteria	Description
➤ Rand value spent on training	➤ Total planned monetary value spend (as a % of contract value) on skills development /training for the contract period within the industry; money spent in the previous year will be included in year 1 to make allowance for Service Providers who have just completed a training drive within the industry
➤ Number of bursaries/ scholarships (specify field of study)	➤ The number of higher education bursaries/scholarships provided in the previous year and planned for the length of the contract
➤ Number of apprentices (sector must be specified)	➤ The number of apprentices that the Service Provider plans to enlist during the course of the contract
➤ Investment in Schools in specific sectors e.g. engineering	➤ The monetary value that the Service Provider is prepared to invest in the development and running of schools to increase technical skills development

5.5 Job creation/preservation

Job creation and/or preservation allows assessment of Government's objectives to increase labour absorption, focusing on unskilled workers and the youth.

Criteria	Description
➤ Number of jobs preserved	➤ Number of jobs which would be preserved through Award of Contract
➤ Number of jobs created including: <ul style="list-style-type: none"> • New skilled jobs created • New unskilled jobs created 	➤ Number of jobs to be created during the period of the contract <ul style="list-style-type: none"> • Jobs for people in a specialised field of work requiring a defined training path and / or requisite level of experience in order for them to perform that role. These people could be in possession of a certificate, diploma or degree from a higher education institution. • Jobs for people where the field of work does not require extensive formal training or from whom no minimum level of education is required
➤ Number of jobs created for youth	➤ Jobs created for individuals aged 16 – 30 years
➤ Number of jobs created for Black youth	➤ Jobs created for Black individuals aged 16 – 30 years

5.6 Small business promotion

Small business promotion criteria give an indication of the Service Provider's commitment to developing small business in line with NGP and B-BBEE requirements.

Criteria	Description
<ul style="list-style-type: none"> ➤ Percentage procurement from: <ul style="list-style-type: none"> • QSEs • EMEs • Start-ups 	<ul style="list-style-type: none"> ➤ Refers to the planned procurement from small business as a % of the total planned procurement spend
<ul style="list-style-type: none"> ➤ Non-financial support provided to small business 	<ul style="list-style-type: none"> ➤ Service Providers will be credited for each non-financial ED support that they are planning to give to small business e.g. Professional support; employee time allocated to assisting small business
<ul style="list-style-type: none"> ➤ Financial support provided to small business 	<ul style="list-style-type: none"> ➤ Service Providers will be credited for each financial ED support initiative that they are planning to undertake during the contract period e.g. Shorter payment terms; interest free loans
<ul style="list-style-type: none"> ➤ Joint ED initiatives with Transnet 	<ul style="list-style-type: none"> ➤ The number of ED initiatives that the Service Provider will jointly run with Transnet: <ul style="list-style-type: none"> • That are aligned to Transnet's objectives • That are non-financial in nature

5.7 Rural development/integration

Rural development / integration indicates the Service Provider's planned use of local labour and business which will contribute to Governments NGP objectives and result in supply chain efficiencies. Commitment to rural development will result in the alleviation of poverty and thereby contribute to development objectives. The development must be sustainable in order to have a long-term and meaningful impact.

Criteria	Description
<ul style="list-style-type: none"> ➤ Number of local employees 	<ul style="list-style-type: none"> ➤ Number of people employed from within the town/city of operation
<ul style="list-style-type: none"> ➤ Value spent on local business 	<ul style="list-style-type: none"> ➤ Monetary value spent on businesses within the town/city of operation
<ul style="list-style-type: none"> ➤ Proximity of business to operations 	<ul style="list-style-type: none"> ➤ The locality of the business in relation to operations, preference is given for regional (provincial) locality
<ul style="list-style-type: none"> ➤ Number of rural businesses to be developed 	<ul style="list-style-type: none"> ➤ The number of rural businesses that the Service Provider plans to develop as a result of the contract
<ul style="list-style-type: none"> ➤ Value of development to local community (sustainable) 	<ul style="list-style-type: none"> ➤ The monetary value spent on rural community development that will result in long-term social improvements

6 Market Intelligence Assistance

Service Providers with limited knowledge of the local market, supply base and its capabilities may require assistance in identifying local suppliers and the development needs in order to develop its SD Bid

Document. The United Nations Industrial Development Organisation (UNIDO) supplies a benchmarking service in South Africa which will be able to assist Service Providers in identifying potential local suppliers with which to work. In addition, this service will provide insight as to the type of support that these local suppliers require in order to become more competitive. UNIDO's benchmarking tool gives insight into the performance levels being seen in Service Providers' businesses and the practices used to deliver the products or services being offered. The benchmarking tool focuses on:

- 6.1 Performance data relating to -
 - a) Financial performance
 - b) Customer data
 - c) Processes
 - d) Learning & growth
- 6.2 Company's current business situation -
 - a) Plans for the business and capabilities to manage their fulfilment
 - b) Ability to generate business
 - c) Employee relationships
 - d) Developing new markets
 - e) Developing products and services
 - f) Managing money

The UNIDO benchmarking tool provides a basic framework through which an understanding of the South African market can be established. Whilst the list of criteria may not be exhaustive, Service Providers are free to meet with UNIDO to further understand how they can work together to develop a deeper understanding of the market and the SD opportunities available.

7 Government Policy Documents

- NIPP http://www.thedti.gov.za/industrial_development/nipp.jsp
 IPAP2 <http://www.thedti.gov.za/DownloadFileAction?id=561>
 CSDP <http://www.dpe.gov.za/res/transnetCSDP1.pdf>
 NGP <http://www.thepresidency.gov.za/pebble.asp?relid=2323>

8 Other Reference Websites

References	Website
Department of Public Enterprise (DPE)	www.dpe.gov.za
United Nations Industrial Development Organisation (UNIDO)	www.unido.org/spx

GLOSSARY OF WORDS

Broad-Based Black Economic Empowerment (B-BBEE)	A South African legal requirement that require all entities operating in the South African economy to contribute to empowerment and transformation
Enterprise Development (ED)	An element contained within the B-BBEE scorecard whereby a Measured Entity can receive recognition for any Qualifying Enterprise Development Contributions towards Exempted Micro-Enterprises or Qualifying Small Enterprises which are 50% black owned or 30% black woman owned. Enterprise Development Contributions consists of monetary and non-monetary, recoverable and non-recoverable contributions actually initiated in favour of a beneficiary entity by a measured entity with the specific objective of assisting or accelerating the development, sustainability and ultimate financial independence of the beneficiary. This is commonly accomplished through the expansion of a beneficiaries financial and/ or operation capacity.
Industrial Policy Action Plan II (IPAPII)	The implementation plan for the National Industrial Policy Framework (NIPF) which details key action plans (KAPs) and timeframes for the implementation of industrial policy actions in line with the NIPF.
Integrated Supply Chain Management (iSCM)	Refers to an integrated "one supply chain management" strategy within Transnet which has been developed with Centres of Excellence (COEs) with cross-functional teams comprising divisional and corporate task team members, to deliver value through improved efficiencies and compliance with the regulatory environment.
New Growth Path (NGP)	Developed by the Economic Development Department tabled in January 2010 frames a new approach to unlocking economic growth by knitting together the IPAP2 as well as policies and programmes in rural development, agriculture and, sciences & technology, education, skills development, labour, mining and beneficiation, tourism and social development with the aim to target limited capital and capacity at activities that maximise the creation of decent work opportunities. Key indicators include: Quality job creation, Youth employment, Labour intensive growth, and Equity.

Original Equipment Manufacturer (OEM)	Refers to a manufacturing company that owns the intellectual property rights and patents for the equipment it sells and services
Socio-economic Development	Refers to development which addresses social and economic aspects such as job creation, poverty reduction and increased national value add and which not only focuses on the business's financial bottom line.
State Owned Company (SOC)	Refers to Government-owned corporations. They are legal entities created, and owned, by Government to undertake commercial activities on behalf of an owner Government, and are usually considered to be an element or part of the state. They are established to operate on a commercial basis.
Supplier Development (SD)	Improving the socio-economic environment by creating competitive local suppliers via Enterprise Development, CSDP and other initiatives such as Preferential Procurement. This results in a supply base that can eventually be competitive to market its goods on the international market leading to increased exports.
United Nations Industrial Development Organisation (UNIDO)	A specialised agency of the United Nations. Its mandate is to promote and accelerate sustainable industrial development in developing countries and economies in transition, and work towards improving living conditions in the world's poorest countries by drawing on its combined global resources and expertise.

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Annexure C
SUPPLIER DEVELOPMENT VALUE SUMMARY

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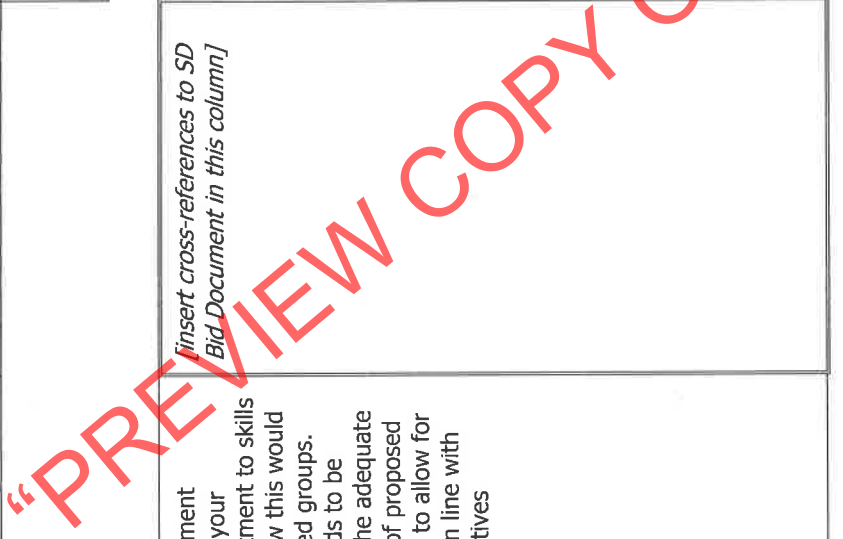
Respondents must complete this Annexure C which summarises your Supplier Development (SD) Bid Document and your related commitments.

For the purposes of completing the SD Value Indicators, where applicable Respondents must calculate their SD commitments as a percentage (%) of their estimated total value of the contract over the Contract Period¹

Please insert the SD Value Indicators in the following table. Cross-reference, under the column heading "Respondent's SD Commitments," the Value Indicators quoted with the corresponding section in your SD Bid Document.

¹ "Contract Period" means a period of 2 years from the effective date of the contract

Supplier Development (SD) Category	Respondent's SD Bid	Supplier Development Value Indicators		
		SD Value Measurement	Quantity	Estimated Rand Value (ZAR) excluding VAT
<p>1. New skills development New skills development initiatives indicate your company's commitment to skills education, and how this would match with targeted groups. Consideration needs to be directed towards the adequate quality and value of proposed skills development to allow for better evaluation in line with Government objectives</p>	<p><i>[insert cross-references to SD Bid Document in this column]</i></p>	<p><i>Number and Rand value of artisans/technicians to be trained over the Contract Period</i></p> <p><i>Number and Rand value of apprentices to be trained over the Contract Period</i></p> <p><i>Number and Rand value of Blacks to be trained over the Contract Period</i></p>		
		<p>Is the level of the training offered above in compliance with the National Qualification Framework guidelines (NQF)? - Yes/No (Please tick)</p>	<p>Yes</p>	<p>No</p>
		<p><i>Number and Rand value of higher education bursaries and/or scholarships to be offered by your company, if applicable (specify)</i></p>		
		<p><i>Rand value of other skills development initiatives (to be further detailed in your SD Bid Document)</i></p>		



Supplier Development (SD) Category		Respondent's SD Bid	Supplier Development Value Indicators		
			SD Value Measurement	Quantity	Estimated Rand Value (ZAR) excluding VAT
<p>2. Job creation and/or job preservation</p> <p>The potential for job creation and/or job preservation due to the award of this business, allows for assessments of your Company's intentions in terms of the Government's objective to increase labour absorption focusing on unskilled workers and the youth</p>	<p>[insert cross-references to SD Bid Document in this column]</p>	<p>Number and Rand value of new skilled jobs to be created due to Award of Contract (where "skilled" refers to jobs for people in a specialised field of work requiring a defined training path and / or a requisite level of experience in order for them to perform that role. These people could be in possession of a certificate, diploma or degree from a Higher education institution)</p>	<p>Number and Rand value of new unskilled jobs to be created by Award of Contract (where "unskilled" refers to jobs for people where the field of work does not require extensive formal training or from whom no minimum level of education is required))</p>		
		<p>Number of jobs which would be preserved through Award of Contract</p>	<p>Number of jobs to be created for Black youth (where "youth" means individuals between the ages of 16 - 35 years), Black women and Blacks with disabilities through Award of Contract</p>		

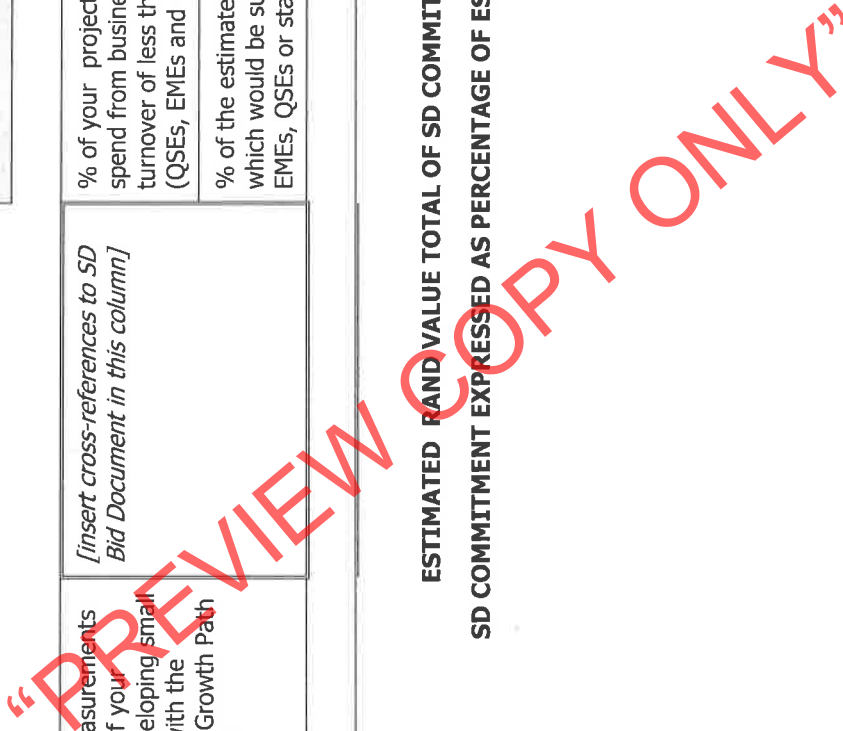
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Supplier Development (SD) Category		Respondent's SD Bid	Supplier Development Value Indicators		
			SD Value Measurement	Quantity	Estimated Rand Value (ZAR) excluding VAT
3. Small business promotion	These SD value measurements give an indication of your commitment to developing small businesses in line with the Government's New Growth Path (NGP) and B-BBEE requirements	<i>[insert cross-references to SD Bid Document in this column]</i>	% of your projected procurement spend from businesses with an annual turnover of less than R35 million (QSEs, EMEs and start-up companies)	%	
			% of the estimated contract value which would be subcontracted to EMEs, QSEs or start-up companies	%	

ESTIMATED RAND VALUE TOTAL OF SD COMMITMENT, EXCLUDING VAT : ZAR

SD COMMITMENT EXPRESSED AS PERCENTAGE OF ESTIMATED CONTRACT VALUE :

	%



PROVISION OF INDOOR SECURITY PEPPER GAS SPRAY ALARM SYSTEM IN SUBSTATIONS AND RELAY ROOMS IN THE TFR CENTRAL REGION

SUPPLIER DEVELOPMENT - BIDDERS RESPONSE

This section must be duly completed in terms of this procurement event/tender/RFP (over the contract period) being awarded to you.

SD CATEGORY	SD MEASUREMENT	SD VALUE INDICATORS		
		NUMBER	PERCENTAGE	RAND VALUE BID REFERENCE
3.4 Skills Development	Number of SA Technical Engineers / Artisans trained			
3.4.1.				
3.4.2.	Number of HDI SA Technical Engineers / Artisans trained			
3.4.3.	Number of BURSARIES/SCOLARSHIPS offered			
3.4.4.	VALUE of BURSARIES/SCOLARSHIPS			
3.4.5.	Are any of the training interventions recognised qualifications in terms of NQF, SETA or other? Please specify.			

SD CATEGORY	SD MEASUREMENT	SD VALUE INDICATORS		
		NUMBER	PERCENTAGE	RAND VALUE BID REFERENCE
3.5 Job Creation	Number of New Skilled jobs created (HDI)			
3.5.1	Number of New Unskilled jobs created (HDI)			
3.5.2	How many (Number & Percentage) of NEW SKILLED JOBS will be to Black women (HDI)			
3.5.3	How many (Number & Percentage) of NEW SKILLED JOBS will be to persons with disabilities			
3.5.4				

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SD CATEGORY	SD MEASUREMENT	SD VALUE INDICATORS		
		NUMBER	PERCENTAGE	BID REFERENCE
3.6 Job Maintenance / Preservation	How many (Number) Jobs will be Maintained/Preserved by the bidder / tenderer			
3.6.1.				

SD CATEGORY	SD MEASUREMENT	SD VALUE INDICATORS		
		NUMBER	PERCENTAGE	BID REFERENCE
3.8 Small Business Promotion	What is the Planned Percentage procurement from LQSE's over the contract period			
3.8.1.				
3.8.2.	What is the Planned Percentage procurement from EME's over the planned period of the contract			

ESTIMATED RAND VALUE OF TOTAL SD COMMITMENT

0

SD COMMITMENT EXPRESSED AS A PERCENTAGE OF ESTIMATED CONTRACT VALUE

%

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Tenderer SHE Management System Questionnaire

This questionnaire is part of the TFR tender evaluation process and is to be completed by all Tenderer’s and submitted with their tender offer. The objective of the questionnaire is to provide an overview of the status of the Tenderer’s SHE management system. Tenderer’s will be required to verify their responses noted in their questionnaire by providing evidence of their ability and capacity in relevant matters. The tender warrants that the information provided below is accurate and correct. The tenderer shall advise TFR of any changes.

TFR may verify the accuracy of this information (where necessary) during the physical visit as part of the tender evaluation.

The information provided in this questionnaire is an accurate summary of the company's SHE management system.		
Company Name:		
Signed:	Name:	
Position:	Date:	
Tender Description:		
Tender Number:		
Tenderer SHE Management System Questionnaire	Yes	No
1. SHE Policy and Management		
- Is there a written company SHE policy? - If yes provide a copy of the policy (ANNEXURE #)		
- Does the company have an SHE Management system e.g NOSA, OHSAS, IRCA System etc - If yes provide details		
- Is there a company SHE Management System, procedures manual or plan? - If yes provide a copy of the content page(s)		
- Are the SHE responsibilities clearly identified for all levels of Management and employees? - If yes provide details		
2. Safe Work Practices and Procedures		

THIS SAFETY DOCUMENT IS RETURNABLE BY THE TENDERER (Annexure D)

<ul style="list-style-type: none"> - Are safe operating procedures or specific safety instructions relevant to its operations available? - If yes provide a summary listing of procedures or instructions 		
<ul style="list-style-type: none"> - Is there a SHE incident register? - If yes provide a copy 		
<ul style="list-style-type: none"> - Are Risk Assessments conducted and appropriate techniques used? - If yes provide details 		
3. SHE Training		
<p>Describe briefly how health and safety training is conducted in your company:</p>		
<ul style="list-style-type: none"> - Is a record maintained of all training and induction programs undertaken for employees in your company? - If yes provide examples of safety training records 		
4. SHE Workplace Inspection		
<ul style="list-style-type: none"> - Are regular health and safety inspections at worksites undertaken? -If yes provide details 		
<ul style="list-style-type: none"> - Is there a procedure by which employees can report hazards at workplaces? - If yes provide details 		
5. SHE Consultation		
<ul style="list-style-type: none"> - Is there a workplace SHE committee? 		
<ul style="list-style-type: none"> - Are employees involved in decision making over SHE matters? - If yes provide details 		
<ul style="list-style-type: none"> - Are there appointed SHE representatives? 		

THIS SAFETY DOCUMENT IS RETURNABLE BY THE TENDERER (Annexure D)

- Comments		
6. SHE Performance Monitoring		
<p>- Is there a system for recording and analysing health and safety performance statistics including injuries and incidents?</p> <p>- If yes provide details</p>		
<p>- Are employees regularly provided with information on company health and safety performance?</p> <p>- If yes provide details</p>		
<p>Is company registered with workmen's compensation and up to date?</p> <p>- If yes provide proof of letter of good standing</p>		
<p>- Has the company been fined or convicted of an occupational health and safety offence?</p> <p>- If yes provide details</p>		

Safety Performance Report

Monthly DIFR for previous months

Previous Year	No of Disabling Injuries	Total Number of employees	DIFR per month
Jan			
Feb			
Mar			
Apr			
May			
Jun			
Jul			
Aug			
Sep			
Oct			
Nov			
Dec			

RFP CRAC VAR 8242 - SUPPLY, INSTALLATION, COMMISSIONING, MAINTENANCE AND MONITORING OF INTRUDER ALARM & INDOOR PEPPER GAS SPRAY SECURITY SYSTEM(S) IN SUBSTATIONS AND RELAY ROOMS IN THE TRANSNET FREIGHT RAIL (TFR) CENTRAL REGION

THIS SAFETY DOCUMENT IS RETURNABLE BY THE TENDERER (Annexure D)

DIFR = Number of Disabling injuries x 200000 divided by number of manhours worked for the period

=====
Signed
(Tenderer)

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TRANSNET LIMITED / CONTRACTORS / SUB-CONTRACTORS

CONTRACTUAL SAFETY CLAUSES WHICH WILL FORM PART OF ANY RESULTING CONTRACT

The parties agree on the following arrangements according to section 37 (2) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) to ensure compliance by the mandatory with provisions of the Act.

- 1) That the Contractor is an "employer" in his own right as defined in section 1 of Act 85 of 1993 and that he must fulfill all his obligations as an employer in terms of the Act.
- 2) The Contractor shall comply with the requirements of Act 85 of 1993 in its entirety.
- 3) Where special permits are required, such as electrical switching, hot work permits, etc. the Contractor shall obtain them from a person designated by Transnet Limited for this purpose, and all requirements of the Contractor must rigidly comply with the permit.
- 4) The Contractor shall conduct a risk assessment of the work to be performed by a competent person prior to the commencement of work, to identify risks and hazards that persons may be exposed to, analyze and evaluate identified hazards.
- 5) The Contractor shall have a documented Health and Safety Plan based on the risks and hazards identified before commencement of work.
- 6) The Health and Safety Plan shall include the following:
 - 6.1 The safety management structure to be instituted with all appointments in terms of the Act and Regulations
 - 6.2 The safe working methods and procedures to be implemented to ensure work are performed in compliance to the Act.
 - 6.3 The safety equipment, devices and clothing to be made available by the Contractor to his employees.
 - 6.4 The site access control measures pertaining to health and safety to be implemented.
 - 6.5 Control measures for ensuring that the Health and Safety Plan is maintained and monitored for the duration of the contract.
- 7) The Contractor shall ensure that all work is performed under the close supervision of a person trained to understand the hazards associated with the work performed and who has authority to ensure that the necessary precautionary measures are implemented.
- 8) The Contractor must appoint a Health and Safety coordinator to liaise with Transnet Limited on matters pertaining to occupational health and safety.
- 9) The appointed Safety coordinator must liaise at least once a week with the* Health and Safety Section / Risk Manager /Occupational Risk Manager of Transnet Limited.
- 10) The Contractor shall furnish the* Health and Safety Section/ Risk Manager/ Occupational Risk Manager of Transnet Limited immediately with full particulars of any sub-Contractor which he may involve in the contract in order that the sub-Contractor himself can be made aware of all the clauses in this contract pertaining to health and safety.

- 11) The Contractor shall stop any sub-contractor from executing work which is not in accordance with the Health and Safety Plan or which poses a threat to health and safety of persons.
- 12) The Contractor shall ensure that all his employees and visitors undergoes health and safety induction pertaining to the hazards prevalent, proof of such training must be kept on file.
- 13) In the event where the risk assessment reveals the risk relating to working from an elevated position the Contractor shall cause the designation of a competent person, responsible for the preparation of a Fall Protection Plan.
- 14) The Fall Protection Plan shall include:
 - 14.1 A risk assessment of all work carried out from an elevated position
 - 14.2 Procedures and methods to address all the identified risks per location
 - 14.3 Evaluation of employee's physical and psychological fitness necessary to work at elevated position.
 - 14.4 The training of employees working from an elevated position.
 - 14.5 Procedure addressing the inspection, testing and maintenance of all fall protection equipment.
- 15) The Contractor shall advise the * Health and Safety Section / Risk Manager/ Occupational Risk Manager of Transnet Limited of any hazardous situations which may arise from work being performed either by the Contractor or his sub-Contractor.
- 16) Copies of all appointments required by the act must be given to * Health and Safety Section / Risk Manager / Occupational Risk Manager of Transnet Limited.
- 17) The Contractor shall ensure that a Health and Safety File is available which shall include all documentation as required by the Act, copy of his and his Sub-Contractors Risk Assessment and Health and Safety Plan.
- 18) All incidents referred to in Section 24 of the Act involving the Contractor and his Sub-Contractor on Transnet Ltd premises, shall be reported as prescribed. Transnet Ltd hereby obtains an interest in the issue of any investigation, formal inquiry conducted in terms of Section 31 and 32 of the Act into any incident involving the Contractor, his Sub-Contractor, any person or machinery under his control on Transnet Ltd premises.
- 19) No alcohol or any other intoxicating substance shall be allowed on Transnet Ltd premises. The Contractor shall not allow anyone under or suspected to be under the influence of alcohol or any other intoxicating substance on Transnet Ltd premises.
- 20) Contractor to ensure its employees undergo medical surveillance as required by legislation
- 21) Contractor will be required to provide monthly safety performance reports and statistics
- 22) A letter of good standing in terms of Section 80 (Employer to register with the Compensation Commissioner) of the Compensation for Occupational Injuries and Disease Act 1993 (Act 130 of 1993) must also be furnished.
- 23) All clauses in the contract pertaining health and safety form an integral part of the contract and if not complied with may be construed as breach of contract.

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ANNEXURE E

Transnet Freight Rail
A Division of Transnet SOC Ltd

E.4E Transnet (August 2006)

TRANSNET



TRANSNET LIMITED
(Registration no. 1990/000900/06)

SAFETY ARRANGEMENTS AND PROCEDURAL COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND APPLICABLE REGULATIONS

1. General

- 1.1 The Contractor and Transnet Limited (hereinafter referred to as "Transnet") are individual employers, each in its own right, with their respective duties and obligations set out in the Occupational Health and Safety Act, Act 85 of 1993 (the Act) and applicable Regulations.
- 1.2 The Contractor accepts, in terms of the General Conditions of Contract and in terms of the Act, his obligations as an employer in respect of all persons in his employ, other persons on the premises or the Site or place of work or on the work to be executed by him, and under his control. He shall, before commencement with the execution of the contract work, comply with the provisions set out in the Act, and shall implement and maintain a Health and Safety Plan as described in the Construction Regulations, 2003 and as approved by Transnet, on the Site and place of work for the duration of the Contract.
- 1.3 The Contractor accepts his obligation to complying fully with the Act and applicable Regulations notwithstanding the omission of some of the provisions of the Act and the Regulations from this document.
- 1.4 Transnet accepts, in terms of the Act, its obligations as an employer of its own employees working on or associated with the site or place of work, and the Contractor and Project Manager or his deputy shall at all times, co-operate in respect of the health and safety management of the site, and shall agree on the practical arrangements and procedures to be implemented and maintained during execution of the Works.
- 1.5 In the event of any discrepancies between any legislation and this specification, the applicable legislation will take precedence.

2. Definitions

- 2.1 In this Specification any word or expression to which a meaning has been assigned in the Construction Regulations, shall have the meaning so assigned to it, unless the context otherwise indicates: -
- 2.2 The work included in this Contract shall for the purposes of compliance with the Act be deemed to be "**Construction Work**", which, in terms of the Construction Regulations, 2003 means any work in connection with: -

TRANSNET



ANNEXURE E

Transnet Freight Rail
A Division of Transnet SOC Ltd

E.4E Transnet (August 2006)

- (a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
 - (b) the installation, erection, dismantling or maintenance of fixed plant where such work includes the risk of a person falling;
 - (c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
 - (d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work;
- 2.3 “**competent person**” in relation to construction work, means any person having the knowledge, training and experience specific to the work or task being performed: Provided that where appropriate qualifications and training are registered as per the South African Qualifications Authority Act, 1995 these qualifications and training shall be deemed to be the required qualifications and training;
- 2.4 “**contractor**” means principal contractor and “**subcontractor**” means contractor as defined by the Construction Regulations, 2003;
- 2.5 “**fall protection plan**” means a documented plan, of all risks relating to working from an elevated position, considering the nature of work undertaken, and setting out the procedures and methods applied to eliminate the risk;
- 2.6 “**health and safety file**” means a file, or other record in permanent form, containing the information required to be kept on site in accordance with the Act and applicable Regulations;
- 2.7 “**Health and Safety Plan**” means a documented plan which addresses the hazards identified and include safe work procedures to mitigate, reduce or control the hazards identified;
- 2.8 “**Risk Assessment**” means a programme to determine any risk associated with any hazard at a construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard;
- 2.9 “**the Act**” means the Occupational Health and Safety Act No. 85 of 1993.
- 3. Procedural Compliance**
- 3.1 The Contractor who intends to carry out any construction work shall, before carrying out such work, notify the Provincial Director in writing if the construction work:-
- (a) includes the demolition of a structure exceeding a height of 3 metres; or
 - (b) includes the use of explosives to perform construction work; or
 - (c) includes the dismantling of fixed plant at a height greater than 3m, and shall also notify the Provincial Director in writing when the construction work exceeds 30 days or will involve more than 300 person days of construction work and if the construction work:-

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includes excavation work deeper than 1m; or
includes working at a height greater than 3 metres above ground or a landing.

- 3.2 The notification to the Provincial Director shall be on a form similar to Annexure A of the Construction Regulations, 2003, also shown in Annexure 1 of this Specification. The Contractor shall ensure that a copy of the completed notification form is kept on site for inspection by an inspector, Project Manager or employee.
- 3.3 The Contractor shall, in accordance with the Act and applicable Regulations, make all the necessary appointments of competent persons in writing on a form similar to Annexure 2 of this Specification and deliver copies thereof to the Project Manager. Copies should also be retained on the health and safety file.
- 3.4 Subcontractors shall also make the above written appointments and the Contractor shall deliver copies thereof to the Project Manager.
- 3.5 In the case of a self-employed Contractor or any subcontractor who has the appropriate competencies and supervises the work himself, the appointment of a construction supervisor in terms of regulation 6.1 of the Construction Regulations, 2003 will not be necessary. The Contractor shall in such a case execute and sign a declaration, as in Annexure 3, by which he personally undertakes the duties and obligations of the "Chief Executive Officer" in terms of section 16(1) of the Act.
- 3.6 The Contractor shall, before commencing any work, obtain from the Project Manager an access certificate as in Annexure 4 executed and signed by him, permitting and limiting access to the designated site or place of work by the Contractor and any subcontractors under his control.
- 3.7 Procedural compliance with Act and Regulations, as above, shall also apply to any subcontractors as employers in their own right. The Contractor shall furnish the Project Manager with full particulars of such subcontractors and shall ensure that they comply with the Act and Regulations and Transnet's safety requirements and procedures.

4. **Special Permits**

Where special permits are required before work may be carried out such as for hotwork, isolation permits, work permits and occupations, the Contractor shall apply to the Project Manager or the relevant authority for such permits to be issued. The Contractor shall strictly comply with the conditions and requirements pertaining to the issue of such permits.

5. **Health and Safety Programme**

- 5.1 The Tenderer shall, with his tender, submit a Health and Safety Programme setting out the practical arrangements and procedures to be implemented by him to ensure compliance by him with the Act and Regulations and particularly in respect of: -
- (i) The provision, as far as is reasonably practical, of a working environment that is safe and without risk to the health of his employees and subcontractors in terms of section 8 of the Act;
 - (ii) the execution of the contract work in such a manner as to ensure in terms of section 9 of the Act that persons other than those in the Contractor's employment, who may be directly affected by the contract work are not thereby exposed to hazards to their health and safety;

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- (iii) ensuring, as far as is reasonably practical, in terms of section 37 of the Act that no employee or subcontractor of the Contractor does or omits to do any act which would be an offence for the Contractor to do or omit to do.
- 5.2 The Contractor's Health and Safety Programme shall be based on a risk assessment in respect of the hazards to health and safety of his employees and other persons under his control that are associated with or directly affected by the Contractor's activities in performing the contract work and shall establish precautionary measures as are reasonable and practical in protecting the safety and health of such employees and persons.
- 5.3 The Contractor shall cause a risk assessment contemplated in clause 5.2 above to be performed by a competent person, appointed in writing, before commencement of any Construction Work and reviewed during construction. The Risk Assessments shall form part of the Health and Safety programme to be applied on the site and shall include at least the following:
- (a) The identification of the risks and hazards that persons may be exposed to;
 - (b) the analysis and evaluation of the hazards identified;
 - (c) documented Health and Safety Plan, including safe work procedures to mitigate, reduce or control the risks identified;
 - (d) a monitoring and review plan.
- 5.4 The Health and Safety Plan shall include full particulars in respect of: -
- (a) The safety management structure to be instituted on site or place of work and the names of the Contractor's health and safety representatives and members of safety committees where applicable;
 - (b) the safe working methods and procedures to be implemented to ensure the work is performed in compliance with the Act and Regulations;
 - (c) the safety equipment, devices and clothing to be made available by the Contractor to his employees;
 - (d) the site access control measures pertaining to health and safety to be implemented;
 - (e) the arrangements in respect of communication of health and safety related matters and incidents between the Contractor, his employees, subcontractors and the Project Manager with particular reference to the reporting of incidents in compliance with Section 24 and General Administrative Regulation 8 of the Act and with the pertinent clause of the General Conditions of Contract forming part of the Contract and
 - (f) the introduction of control measures for ensuring that the Safety Plan is maintained and monitored for the duration of the Contract.
- 5.4 The Health and Safety programme shall be subject to the Project Manager's approval and he may, in consultation with the Contractor, order that additional and/or supplementary practical arrangements and procedures be implemented and

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maintained by the Contractor or that different working methods or safety equipment be used or safety clothes be issued which, in the Project Manager's opinion, are necessary to ensure full compliance by the Contractor with his obligations as an employer in terms of the Act and Regulations. The Project Manager or his deputy shall be allowed to attend meetings of the Contractor's safety committee as an observer.

- 5.5 The Contractor shall take reasonable steps to ensure that each subcontractor's Health and Safety Plan is implemented and maintained on the construction site: Provided that the steps taken, shall include periodic audits at intervals mutually agreed to between the them, but at least once every month.
- 5.6 The Contractor shall stop any subcontractor from executing any construction work, which is not in accordance with the Contractor's, and/or subcontractor's Health and Safety Plan for the site or which poses a threat to the health and safety of persons.
- 5.7 The Contractor shall ensure that a copy of the Health and Safety Plan is available on site for inspection by an inspector, Project Manager, agent, subcontractor, employee, registered employee organisation, health and safety representative or any member of the health and safety committee.
- 5.8 The Contractor shall consult with the health and safety committee or, if no health and safety committee exists, with a representative group of employees, on the development, monitoring and review of the Risk Assessment.
- 5.9 The Contractor shall ensure that all employees under his control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the Risk Assessment.
- 5.10 The Contractor shall ensure that all subcontractors are informed regarding any hazard as stipulated in the Risk Assessment before any work commences, and thereafter at such times as may be determined in the Risk Assessment.
- 5.11 The Contractor shall ensure that all visitors to a construction site undergoes health and safety induction pertaining to the hazards prevalent on the site and shall be provided with the necessary personal protective equipment.

6. Fall Protection Plan

- 6.1 In the event of the risk and hazard identification, as required in terms of clause 5.3 of this Specification, revealing risks relating to working from an elevated position the contractor shall cause the designation of a competent person, responsible for the preparation of a fall protection plan;
- 6.2 The Contractor shall implement, maintain and monitor the fall protection plan for the duration of Contract. The Contractor shall also take such steps to ensure the continued adherence to the fall protection plan.
- 6.3 The fall protection plan shall include:-
 - (a) A Risk Assessment of all work carried out from an elevated position;
 - (b) the procedures and methods to address all the identified risks per location;

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- (c) the evaluation of the employees physical and psychological fitness necessary to work at elevated positions;
- (d) the training of employees working from elevated positions; and
- (e) the procedure addressing the inspection, testing and maintenance of all fall protection equipment.

7. Hazards and Potential Hazardous Situations

The Contractor and the Project Manager shall immediately notify one another of any hazardous or potentially hazardous situations which may arise during performance of the Contract by the Contractor or any subcontractor and, in particular, of such hazards as may be caused by the design, execution and/or location and any other aspect pertaining to the contract work.

8. Health and Safety File

- 8.1 The Contractor shall ensure that a health and safety file is opened and kept on site and shall include all documentation required as per the Act and applicable regulations, and made available to an inspector, the Project Manager, or subcontractor upon request.
- 8.2 The Contractor shall ensure that a copy of the both his Health and Safety Plan as well as any subcontractor's Health and Safety Plan is available on request to an employee, inspector, contractor or the Project Manager.
- 8.3 The Contractor shall hand over a consolidated health and safety file to the Project Manager upon completion of the Construction Work and shall in addition to documentation mentioned in the Act and applicable Regulations include a record of all drawings, designs, materials used and other similar information concerning the completed structure.

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ANNEXURE 1

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

Regulation 3(1) of the Construction Regulations

NOTIFICATION OF CONSTRUCTION WORK

-
-
- 1(a) Name and postal address of principal contractor: _____
- (b) Name and tel. no of principal contractor's contact person: _____
2. Principal contractor's compensation registration number: _____
- 3.(a) Name and postal address of client: _____
- (b) Name and tel no of client's contact person or agent: _____
- 4.(a) Name and postal address of designer(s) for the project: _____
- (b) Name and tel. no of designer(s) contact person: _____
5. Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6(1). _____
6. Name/s of principal contractor's construction sub-ordinate supervisors on site appointed in terms of regulation 6(2). _____
7. Exact physical address of the construction site or site office: _____
8. Nature of the construction work: _____

9. Expected commencement date: _____
10. Expected completion date: _____

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11. Estimated maximum number of persons on the construction site:

12. Planned number of contractors on the construction site accountable to the principle contractor:

13. Name(s) of contractors already chosen.

Principal Contractor

Date

Client

Date

* THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR PRIOR TO COMMENCEMENT OF WORK ON SITE.

* ALL PRINCIPAL CONTRACTORS THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

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ANNEXURE 2

(COMPANY LETTER HEAD)

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT 85 OF 1993) :

SECTION/REGULATION: _____

REQUIRED COMPETENCY: _____

In terms of _____ I, _____

representing the Employer) do hereby
appoint _____

As the Competent Person on the
premises at _____

(physical address) to assist in compliance with the Act and the applicable Regulations.

Your designated area/s is/are as follows :-

Date : _____

Signature :- _____

Designation :- _____

ACCEPTANCE OF DESIGNATION

I, _____ do hereby accept this Designation and
acknowledge that I
understand the requirements of this appointment.

Date : _____

Signature :- _____

Designation :- _____

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ANNEXURE 3

(COMPANY LETTER HEAD)

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT 85 OF 1993) :

DECLARATION

In terms of the above _____ am personally assuming the
Act I, _____ duties
and obligations as Chief Executive Officer, defined in Section 1 of the Act and in terms of
Section 16(1), I will, as far as is reasonably practicable, ensure that the duties and obligations
of the Employer as contemplated in the above Act are properly discharged.

Signature :- _____

Date : _____

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ANNEXURE 4

(LETTER HEAD OF BUSINESS DIVISION OR UNIT OF TRANSNET LIMITED)

SITE ACCESS CERTIFICATE

Access to : _____ (Area)
Name of _____
Contractor/Builder :- _____
Contract/Order No.: _____

The contract works site/area described above are made available to you for the carrying out of associated works
In terms of your contract/order
with
(company
) _____

Kindly note that you are at all times responsible for the control and safety of the Works Site, and for persons under your control having access to the site.

As from the date hereof you will be responsible for compliance with the requirements of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended, and all conditions of the Contract pertaining to the site of the works as defined and demarcated in the contract documents including the plans of the site or work areas forming part thereof.

Signed : _____ **Date :** _____
PROJECT MANAGER

ACKNOWLEDGEMENT OF RECEIPT

Name of _____ I,
Contractor/Builder :- _____
do hereby acknowledge and accept the duties
and obligations in respect of the Safety of the site/area of Work in terms of the Occupational Health and Safety Act; Act 85 of 1993.

Name : _____ **Designation :** _____

Signature : _____ **Date :** _____



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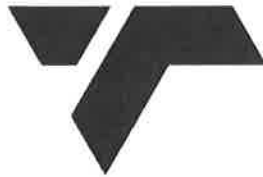
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(REGISTRATION NO.1990/000900/06)
TRADING AS
TRANSNET FREIGHT RAIL

MINIMUM COMMUNAL HEALTH REQUIREMENTS IN AREAS OUTSIDE THE JURISDICTION OF A LOCAL AUTHORITY: TEMPORARY FACILITIES FOR CONTRACTOR'S PERSONNEL

1. **CAMPS**

- 1.1 Prior to the erection of any camp, the Contractor shall submit to the Technical Officer, for his approval, details of his proposals as to the site, water supply, sanitation, and size and type of buildings. Where the site is on private land, the Contractor shall submit the written approval for the use of the site of the relevant statutory authority and of the owner and occupier of the land (as applicable).
- 1.2 Camps must not be erected on land infested with field rodents.
- 1.3 Adequate drainage shall be provided to carry off storm and waste water.
- 1.4 Buildings shall be built to a neat and orderly pattern.
- 1.5 All buildings shall have smooth, hard, impervious floors, graded to provide effective drainage and to permit washing.
- 1.6 Camps shall be maintained by the Contractor at his own expense in a clean and tidy condition. The Contractor shall take such steps as the Technical Officer and landowner/occupier may demand to prevent the creation of a nuisance.
- 1.7 When so instructed by the Technical Officer, the Contractor shall, at his own expense, erect suitable screens between the camp and any public road, thoroughfare or railway line.
- 1.8 After removal of a camp, the Contractor shall, at his own expense, restore the site to its original condition to the satisfaction of the Technical Officer and of the landowner and occupier where the site is on private land.

2. **HOUSING**

- 2.1 Every living room shall have cross ventilation, both constant and occasional. Where only one window is provided, it shall not be in the same wall as the door.

- 2.2 Dimensions of living rooms shall be sufficient to allow 3.5 square metres of floor area and 11 cubic metres of air space for each person over the age of 10 years. The floor area of any living room shall not be less than 7,8 square metres.
- 2.3 Flat-roofed quarters shall have a minimum roof height of 3 metres above floor level. For quarters with pitched roofs, the wall height shall be not less than 2,6 metres above the floor with a minimum height above floor of 3 metres at the top of the pitch.
- 2.4 Doors shall not be less than 2m x 0,75m and must be halved.
- 2.5 Windows of each living room shall have an area not less than one twelfth of the floor area and shall be capable of opening to at least half their full area.
- 2.6 In areas where malaria is prevalent, doors and windows must be fitted with gauze screens.
- 2.7 Cooking shelters shall comprise roofed structures, three sides of which shall be enclosed by a weatherproof material, approved by the Technical Officer to a height of at least 1m above ground level.
- 2.7.1 Sleeping quarters shall not accommodate more than 8 persons per room.
- 2.7.2 Pegboards shall be carried on metal or concrete supports and shall be separated by partitions not less than 0,4 metres high extending to within 150mm of the end of the bunk. Pegboards shall be removable for cleaning.

3. WATER SUPPLY AND ABLUTION FACILITIES

- 3.1 The Contractor shall ensure that an adequate and conveniently situated supply of potable water is provided.
- 3.2 Separate buildings for ablution facilities shall be provided. Where approval has been obtained for the housing of both males and females, separate facilities for each sex shall be provided. The proportion shall be 1 cubicle for 20 persons.
- 3.3 Waste water shall be hygienically disposed of.

4. SANITATION

- 4.1 Separate buildings for latrine facilities shall be provided. Where housing are provided for both males and females, separate facilities for each sex shall be provided. The proportions shall be at least one squatting seat for every 15 persons or less in the case of pit latrines, or one for every 10 persons or less in case of pail latrines. Latrines shall be fly proof and sited at least 10 metres from any other building, and shall not face on any public road, thoroughfare, railway line or residential property. Pits shall not be less than 2,5 metres deep and sited not less than 120 metres from nearest underground water source.

- 4.2 Latrines shall be so constructed, situated and maintained, and night soil so disposed of as to prevent access by animals, breeding of flies, pollution of streams and domestic water supplies, and other nuisances. Where a night soil removal service is operated by a competent authority, use of such service shall be obligatory, and the use of pit latrines and atria pits will not be permitted.
- 4.3 At least one refuse bin of adequate size with close fitting lid shall be provided for each building. Refuse bins shall be emptied and cleaned out daily.
- 4.4 Labour shall be employed on camp sanitation duties on the following basis:-
- 4.4.1 Where the number of persons living at the camp is 20 or less - one unit.
- 4.4.2 For additional numbers over 20 living at the camp - one unit per 100 or part thereof.
- 4.5 Unless refuse is removed by a competent authority, it shall be disposed of in pits and covered over daily with a layer of earth or ash of sufficient thickness to prevent depredations by rodents and the breeding of flies.
- 4.6 Adequate measures shall be taken against all vermin and insects responsible for the spread of disease. Any instructions of a competent health authority shall be carried out promptly and implicitly.
- 4.7 Buildings and bed boards shall be treated whenever necessary with an approved insecticide.
- 4.8 The Contractor shall permit and facilitate inspection of the camp and structures on the site by the staff of Transnet or any other competent authority, and shall comply with any reasonable request by such staff or any other competent authority to eliminate any unsanitary condition.
- 4.9 Any outbreak of infectious disease shall immediately be reported telephonically and confirmed in writing to the Technical Officer.
- 4.10 The keeping of animals of any sort is not permitted.
- 4.11 The Contractor shall have on hand at the camp the necessary tools, disinfectants and cleaning materials to maintain and clean the sanitary facilities.

5. RATIONS

Rations, where supplied by the Contractor, shall be stored in a suitable and rodent proof building with sufficient shelving.

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Specification E4.B
(November 1996)

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TRANSNET



Transnet SOC Limited Registration Number 1990/00900/06

TRANSNET SPECIFICATION

E7/1 - SPECIFICATION FOR GENERAL WORK AND WORKS ON, OVER, UNDER OR ADJACENT TO RAILWAY LINES AND NEAR HIGH VOLTAGE EQUIPMENT

(This specification shall be used in network operator contracts)

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SPECIFICATION FOR GENERAL WORK AND WORKS ON, OVER, UNDER OR ADJACENT TO RAILWAY LINES AND NEAR HIGH VOLTAGE EQUIPMENT

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"	Principal Engineer Infra Engineering (Structures)	J. Homan	
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"	Principal Engineer Technology Management (Electrical)	W. Coetzee	
"	Chief Engineer Transport Telecoms	D. Botha	 17 June 11
Authorised:	Chief Engineer Infrastructure Engineering	J. van Aardt	 2011/06/30

Date: May 2011

(This page not to be issued with contract)

TRANSNET



Transnet SOC Limited Registration Number 1990/00900/06

TRANSNET SPECIFICATION

E7/1 - SPECIFICATION FOR GENERAL WORK AND WORKS ON, OVER, UNDER OR ADJACENT TO RAILWAY LINES AND NEAR HIGH VOLTAGE EQUIPMENT

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1.0 SCOPE

- 1.1 This specification covers the network operator's requirements for general work and works on, over, under or adjacent to railway lines and near high voltage equipment.

2.0 DEFINITIONS

The following definitions shall apply:

"Authorised Person" - A person whether an employee of the network operator or not, who has been specially authorised to undertake specific duties in terms of Transnet' publication Electrical Safety Instructions, and who holds a certificate or letter of authority to that effect.

"Barrier" Any device designed to restrict access to "live" high-voltage electrical equipment.

"Bond" - A short conductor installed to provide electrical continuity.

"Contractor" - Any person or organisation appointed by the network operator to carry out work on its behalf.

"Contract Supervisor" - The person or juristic person appointed by the network operator from time to time as the Contract Supervisor, to administer the Contractor's performance and execution of the Works according to the powers and rights held by and obligations placed upon the Contract Supervisor in terms of the Contract.

"Dead" - Isolated and earthed.

"Electrical Officer (Contracts)" - The person appointed in writing by the Project Manager in terms of this specification as the person who shall be consulted by the Contractor in all electrical matters to ensure that adequate safety precautions are taken by the Contractor.

"Executive Officer" - The person appointed by the network operator from time to time as the Executive Officer to act according to the rights and powers held by and obligations placed upon him in terms of the Contract.

"High-Voltage" - A voltage normally exceeding 1000 volts.

"Live" - A conductor is said to be "live" when it is at a potential different from that of the earth or any other conductor of the system of which it forms a part.

"Near" - To be in such a position that a person's body or the tools he is using or any equipment he is handling may come within 3 metres of "live" exposed high-voltage electrical equipment.

"Occupation" - An authorisation granted by the network operator for work to be carried out under specified conditions on, over, under or adjacent to railway lines.

"Occupation Between Trains" - An occupation during an interval between successive trains.

"Optical Fibre Cable" - Buried or suspended composite cable containing optical fibres used in:

- telecommunication networks for transmission of digital information and
- safety sensitive train operations systems.

"Project Manager" - As defined in the special conditions of the contract. The person or juristic person appointed by the network operator from time to time as the Project Manager, to administer the Contract according to the powers and rights held by and obligations placed upon him in terms of the Contract.

"Responsible Representative" - The responsible person in charge, appointed by a contractor, who has undergone specific training (and holds a certificate) to supervise (general or direct) staff under his control who perform general work or to work on, over, under or adjacent to railway lines and in the vicinity of high-voltage electrical equipment.

"Total Occupation" - An occupation for a period when trains are not to traverse the section of line covered by the occupation.

"Work on" - Work undertaken on or so close to the equipment that the specified working clearances to the "live" equipment cannot be maintained.

"Work Permit" - A combined written application and authority to proceed with work on or near dead electrical equipment.

"Works" - The contractual intent for the work to be done as defined in the contract at a defined work site.

PART A - GENERAL SPECIFICATION**3.0 AUTHORITY OF OFFICERS OF TRANSNET**

- 3.1 The Contractor shall co-operate with the officers of the network operator and shall comply with all instructions issued and restrictions imposed with respect to the Works which bear on the existence and operation of the network operator's railway lines and high-voltage equipment.
- 3.2 Without limiting the generality of the provisions of clause 3.1, any duly authorised representative of the network operator, having identified himself, may stop the work if, in his opinion, the safe passage of trains or the safety of the network operator's assets or any person is affected. **CONSIDERATIONS OF SAFETY SHALL TAKE PRECEDENCE OVER ALL OTHER CONSIDERATIONS.**

4.0 CONTRACTOR'S REPRESENTATIVES AND STAFF

- 4.1 The Contractor shall nominate Responsible Representatives of whom at least one shall be available at any hour for call-out in cases of emergency. The Contractor shall provide the Contract Supervisor with the names, addresses and telephone numbers of the representatives.
- 4.2 The Contractor guarantees that he has satisfied himself that the Responsible Representative is fully conversant with this specification and that he shall comply with all his obligations in respect thereof.
- 4.3 The Contractor shall ensure that all contractor staff receives relevant awareness, educational and competence training regarding safety as prescribed.

5.0 OCCUPATIONS AND WORK PERMITS

- 5.1 Work to be done during total occupation or during an occupation between trains or under a work permit shall be done in a manner decided by the Contract Supervisor and at times to suit the network operator requirements.
- 5.2 The Contractor shall organise the Works in a manner which will minimise the number and duration of occupations and work permits required.
- 5.3 The network operator will not be liable for any financial or other loss suffered by the Contractor arising from his failure to complete any work scheduled during the period of an occupation or work permit.
- 5.4 The Contractor shall submit to the Contract Supervisor, in writing, requests for occupations or work permits together with details of the work to be undertaken, at least 21 days before they are required. The network operator does not undertake to grant an occupation or work permit for any particular date, time or duration.
- 5.5 The network operator reserves the right to cancel any occupation or work permit at any time before or during the period of occupation or work permit. If, due to cancellation or change in date or time, the Contractor is not permitted to start work under conditions of total occupation or work permit at the time arranged, all costs caused by the cancellation shall be born by the Contractor except as provided for in clauses 5.6 to 5.8.
- 5.6 When the Contractor is notified less than 2 hours before the scheduled starting time that the occupation or work permit is cancelled, he may claim reimbursement of his direct financial losses caused by the loss of working time up to the time his labour and plant are employed on other work, but not exceeding the period of the cancelled occupation or work permit.
- 5.7 When the Contractor is notified less than 2 hours before the scheduled starting time, or during an occupation or work permit, that the duration of the occupation or work permit is reduced, he may claim reimbursement of his direct financial losses caused by the loss of working time due to the reduced duration of the occupation or work permit.
- 5.8 Reimbursement of the Contractor for any loss of working time in terms of clause 5.6 and 5.7, shall be subject to his claims being submitted within 14 days of the event with full details of labour and plant involved, and provided that the Contract Supervisor certifies that no other work on which the labour and plant could be employed was immediately available.
- 5.9 Before starting any work for which an occupation has been arranged, the Contractor shall obtain from the Contract Supervisor written confirmation of the date, time and duration of the occupation.
- 5.10 Before starting any work for which a work permit has been arranged, the Responsible Representative shall read and sign portion C of the Work Permit, signifying that he is aware of the work boundaries within which work may be undertaken. After the work for which the permit was granted has been completed, or when the

work permit is due to be terminated, or if the permit is cancelled after the start, the same person who signed portion C shall sign portion D of the Work Permit, thereby acknowledging that he is aware that the electrical equipment is to be made "live". The Contractor shall advise all his workmen accordingly.

6.0 SPEED RESTRICTIONS AND PROTECTION

6.1 When speed restrictions are imposed by the network operator because of the Contractor's activities, the Contractor shall organise and carry out his work so as to permit the removal of the restrictions as soon as possible.

6.2 When the Contract Supervisor considers protection to be necessary the Contractor shall, unless otherwise agreed, provide all protection including flagmen, other personnel and all equipment for the protection of the network operator's and the Contractor's personnel and assets, the public and including trains.

6.2.1 The network operator will provide training free of charge of the Contractor's flagmen and other personnel performing protection duties. The Contractor shall consult with the Contract Supervisor, whenever he considers that protection will be necessary, taking into account the minimum permissible clearances set out in the Manual for Track Maintenance (Document no. BBB0481):

- Drawing no. BE-97 Sheet 1: Horizontal Clearances: 1065mm gauge (Annexure 1 sheet 1)
- Drawing no. BE-97 Sheet 2: Vertical Clearances: 1065mm gauge (Annexure 1 sheet 2)
- Drawing no. BE-97 Sheet 3: Clearances: Platform (Annexure 1 sheet 3)
- Drawing no. BE-97 Sheet 5: Clearances: 610mm Gauge (Annexure 1 sheet 5)

6.3 The Contractor shall appoint a Responsible Representative to receive and transmit any instruction which may be given by the network operator personnel providing protection.

7.0 ROADS AND ROADS ON THE NETWORK OPERATOR'S PROPERTY

7.1 The Contractor shall take every reasonable precaution to prevent damage to any roads or bridges used to obtain access to the site, and shall select routes, use vehicles, and restrict loads so that any extraordinary traffic as may arise from the moving of plant or material to or from the site shall be limited as far as is reasonably possible.

7.2 The Contractor shall not occupy or interfere in any way with the free use of any public or private road, right-of-way, path or street unless the Contract Supervisor has obtained the approval of the road authority concerned.

8.0 CLEARANCES

8.1 No temporary works shall encroach on the appropriate minimum clearances set out in the Manual for Track Maintenance (Document no. BBB0481):

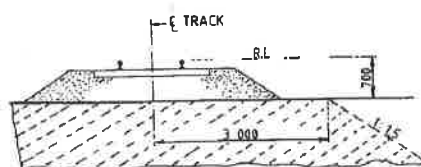
- Drawing no. BE-97 Sheet 1: Horizontal Clearances: 1065mm gauge (Annexure 1 sheet 1)
- Drawing no. BE-97 Sheet 2: Vertical Clearances: 1065mm gauge (Annexure 1 sheet 2)
- Drawing no. BE-97 Sheet 3: Clearances: Platform (Annexure 1 sheet 3)
- Drawing no. BE-97 Sheet 5: Clearances: 610mm Gauge (Annexure 1 sheet 5)

9.0 STACKING OF MATERIAL

9.1 The Contractor shall not stack any material closer than 3m from the centre line of any railway line without prior approval of the Contract Supervisor.

10.0 EXCAVATION, SHORING, DEWATERING AND DRAINAGE

10.1 Unless otherwise approved by the Contract Supervisor any excavation adjacent to a railway line shall not encroach on the hatched area shown in Figure 1.



- 10.2 The Contractor shall provide, at his own cost any shoring, dewatering or drainage of any excavation unless otherwise stipulated elsewhere in the Contract.
- 10.3 Where required by the Contract Supervisor, drawings of shoring for any excavation under or adjacent to a railway line shall be submitted and permission to proceed, obtained before the excavation is commenced.
- 10.4 The Contractor shall prevent ingress of water to the excavation but where water does enter, he shall dispose of it as directed by the Contract Supervisor.
- 10.5 The Contractor shall not block, obstruct or damage any existing drains either above or below ground level unless he has made adequate prior arrangements to deal with drainage.

11.0 FALSEWORK FOR STRUCTURES

- 11.1 Drawings of falsework for the construction of any structure over, under or adjacent to any railway line shall be submitted to the Contract Supervisor and his permission to proceed obtained before the falsework is erected. Each drawing shall be given a title and a distinguishing number and shall be signed by a registered professional engineer certifying that he has checked the design of the falsework and that the drawings are correct and in accordance with the design.
- 11.2 After the falsework has been erected and before any load is applied, the Contractor shall submit to the Contract Supervisor a certificate signed by a registered professional engineer certifying that he has checked the falsework and that it has been erected in accordance with the drawings. Titles and numbers of the drawings shall be stated in the certificate. Notwithstanding permission given by the Contract Supervisor to proceed, the Contractor shall be entirely responsible for the safety and adequacy of the falsework.

12.0 PILING

- 12.1 The Contract Supervisor will specify the conditions under which piles may be installed on the network operator's property.

13.0 UNDERGROUND SERVICES

- 13.1 No pegs or stakes shall be driven or any excavation made before the Contractor has established that there are no underground services which may be damaged thereby.
- 13.2 Any damage shall be reported immediately to the Contract Supervisor, or to the official in charge at the nearest station, or to the traffic controller in the case of centralised traffic control.

14.0 BLASTING AND USE OF EXPLOSIVES

- 14.1 When blasting within 500m of a railway line, the Contractor shall observe the requirements stipulated in this specification.
- 14.2 No blasting shall be carried out except with the prior written permission of the Contract Supervisor and under such conditions as he may impose.
- 14.3 On electrified lines the Contractor shall also obtain the permission of the Electrical Officer (Contracts) before blasting, and shall give at least 21 days notice of his intention to blast. No blasting shall be done in the vicinity of electrified lines unless a member of the network operator's electrical personnel is present.
- 14.4 The Contractor shall arrange for the supply, transport storage and use of explosives.
- 14.5 The Contractor shall have labour, tools and plant, to the satisfaction of the Contract Supervisor, available on the site to clear immediately any stones or debris deposited on the track or formation by blasting, and to repair any damage to the track or formation immediately after blasting. Repairs to the track shall be carried out only under the supervision of a duly authorised representative of the network operator.
- 14.6 The Contractor shall notify the Contract Supervisor of his intention to blast at least 21 days before the commencement of any blasting operations.
- 14.7 Before any blasting is undertaken, the Contractor and the Contract Supervisor shall jointly examine and measure up any buildings, houses or structures in the vicinity of the proposed blasting to establish the extent of any existing cracking or damage to such structures, etc. The Contractor, shall, subject to the provisions stipulated in the Contract Insurance Policy, make good any deterioration of such buildings, houses, or structures, which, in the opinion of the Contract Supervisor, was directly caused by the blasting.
- 14.8 After completion of the blasting the Contractor shall obtain a written clearance from each landowner in

the vicinity of the blasting operations to the effect that all claims for compensation in respect of damage caused by the blasting operations to their respective properties, have been settled.

14.9 The Contractor shall provide proof that he has complied with the provisions of clauses 10.17.1 to 10.17.4 of the Explosives Regulations (Act 26 of 1956 as amended).

14.10 Blasting within 500m of a railway line will only be permitted during intervals between trains. A person appointed by the Contract Supervisor, assisted by flagmen with the necessary protective equipment, will be in communication with the controlling railway station.

Only this person will be authorised to give the Contractor permission to blast, and the Contractor shall obey his instructions implicitly regarding the time during which blasting may take place.

14.11 The flagmen described in clause 14.10, where provided by the network operator, are for the protection of trains and the network operator's property only, and their presence does not relieve the Contractor in any manner of his responsibilities in terms of Explosives Act or Regulations, or any obligation in terms of this Contract.

14.12 The person described in clause 14.10 will record in a book provided and retained by the network operator, the dates and times:-

(i) when each request is made by him to the controlling station for permission to blast;

(ii) when blasting may take place;

(iii) when blasting actually takes place; and

(iv) when he advises the controlling station that the line is safe for the passage of trains.

14.13 Before each blast the Contractor shall record in the same book, the details of the blast to be carried out. The person appointed by the Contract Supervisor and the person who will do the blasting shall both sign the book whenever an entry described in clause 14.12 is made.

15.0 RAIL TROLLEYS

15.1 The use of rail trolleys or trestle trolleys on a railway line for working on high voltage equipment will be permitted only if approved by the Contract Supervisor and under the conditions stipulated by him.

15.2 All costs in connection with trolley working and any train protection services requested by the Contractor shall, be borne by the Contractor, unless otherwise agreed.

16.0 SIGNAL TRACK CIRCUITS

16.1 Where signal track circuits are installed, the Contractor shall ensure that no material capable of conducting an electrical current makes contact between rails of railway line/lines.

16.2 No signal connections on track-circuited tracks shall be severed without the Contract Supervisor's knowledge and consent.

17.0 PENALTY FOR DELAYS TO TRAINS

17.1 If any trains are delayed by the Contractor and the Contract Supervisor is satisfied that the delay was avoidable, a penalty will be imposed on the Contractor as stipulated in the contract, for the period and number of trains delayed.

18.0 SURVEY BEACONS AND PEGS

18.1 The Contractor shall not on any account move or damage any beacon, bench mark, reference mark, signal or trigonometrical station in the execution of the Works without the written approval of the Contract Supervisor.

Should the Contractor be responsible for any such occurrence, he shall report the circumstances to the Contract Supervisor who will arrange with the Director-General of Surveys for replacement of the beacon or mark at the cost of the Contractor.

18.2 The Contractor shall not move or damage any cadastral or mining beacon without the written approval of the Contract Supervisor and before it has been referenced by a registered land surveyor. Any old boundary beacon, which becomes an internal beacon on creation of new boundaries, shall not be moved without the written approval of the Contract Supervisor.

Should the Contractor move or damage any cadastral or mining beacon without authority, he shall be responsible for having it replaced, at his cost, by a land surveyor.

- 18.3 The Contractor shall preserve all pegs and bench marks. Such survey points shall not be removed without the written approval of the Contract Supervisor. Should any peg or benchmark be removed without authority, the Contract Supervisor will arrange for its replacement and the cost will be recovered from the Contractor. No claim will be considered for delay in replacing any such peg or bench mark. Each peg replaced shall be checked by the Contractor.
- 18.4 Where a new boundary has been established, beacons on the fence line shall not be disturbed, and fence posts or anchors may not be placed or excavations made within 0,6 m of any beacon without the prior written approval of the Contract Supervisor.

19.0 TEMPORARY LEVEL CROSSINGS

- 19.1 The Contract Supervisor may, on request of the Contractor, and if necessary for the purpose of execution of the Works, permit the construction of a temporary level crossing over a railway a line at a position approved by the Contract Supervisor and at the Contractor's cost. The period for which the temporary level crossing is permitted will be at the discretion of the Contract Supervisor.

- 19.2 The Contractor will provide protection and supervise the construction of the road over the track(s) and within the railway servitude at the level crossing, as well as the erection of all road signs and height gauges. All cost to be borne by the applicant.

The Contractor shall exercise extreme caution in carrying out this work, especially in respect of damage to tracks, services, overhead power and communications routes and prevent contact with "live" overhead electrical equipment.

Unless otherwise agreed, the Contractor will provide the service deviations or alterations to the network operator's track-, structure-, drainage-, electrical-, telecommunications- and train authorisation systems to accommodate the level crossing.

- 19.3 The Contractor shall take all necessary steps including the provision of gates, locks and, where necessary, watchmen to restrict the use of the temporary level crossing to himself and his employees, his subcontractors and their employees, the staff of the network operator and to such other persons as the Contract Supervisor may permit and of whose identity the Contractor will be advised. If so ordered by the Contract Supervisor, the Contractor shall provide persons to control road traffic using the temporary level crossing. Such persons shall stop all road traffic when any approaching train is within seven hundred and fifty (750) metres of the temporary level crossing, and shall not allow road traffic to proceed over it until the lines are clear.
- 19.4 The Contractor shall maintain the temporary level crossing within the railway servitude in good condition for the period it is in use. A temporary agreement with the road authority to be concluded for the maintenance of the level crossing outside the railway servitude.
- 19.5 When the temporary level crossing is no longer required by the Contractor, or permitted by the network operator, the Contractor shall at his own cost remove it and restore the site and the network operator's track-, structure-, drainage-, electrical-, telecommunications- and train authorisation systems to its original condition. Work over the tracks and within the railway servitude will be supervised by the network operator.

20.0 COMPLETION OF THE WORKS

- 20.1 On completion of the works, the Contractor shall remove all the remaining construction plant and material from the site, other than material which is the property of the network operator, and leave the site in a clean, neat and tidy condition. If material and plant is required for the liability and maintenance period the Contract supervisor must authorise it's retention on site.

21.0 PROTECTION OF PERSONS AND PROPERTY

- 21.1 The Contractor shall provide and maintain all lights, guards, barriers, fencing and watchmen when and where necessary or as required by the Contract Supervisor or by any statutory authority, for the protection of the Works and for the safety and convenience of the public.

Red, yellow, green or blue lights may not be used by the Contractor as they can be mistaken for signals. Red, yellow, green or white flags shall only be used for protection by the Contractor. Within the precincts of a port the Contractor shall obtain the permission of the Port Captain before installing any light.

- 21.2 The Contractor shall take all the requisite measures and precautions during the course of the Works to:
- (i) protect the public and property of the public,
 - (ii) protect the property and workmen of both the network operator and the Contractor,
 - (iii) avoid damage to and prevent trespass on adjoining properties, and
 - (iv) ensure compliance with any instruction issued by the Contract Supervisor or other authorised person, and with any stipulation embodied in the contract documents which affects the safety of any person or thing.
- 21.3 The network operator will provide, at its own cost, protection for the safe working of trains during such operations as the Contract Supervisor may consider necessary. Protection by the network operator for any purpose whatsoever, does not absolve the Contractor of his responsibilities in terms of the Contract.
- 21.4 The Contractor shall take all precautions and appoint guards, watchmen and compound managers for prevention of disorder among and misconduct by the persons employed on the Works and by any other persons, whether employees or not, on the work site and for the preservation of the peace and protection of persons and property in the direct neighbourhood. Any relocation of camps because of disorder shall be at the Contractor's expense.
- 21.5 All operations necessary for the execution of the Works, including the provision of any temporary work and camping sites, shall be carried out so as not to cause veldt fires, ground and environmental pollution, soil erosion or restriction of or interference with streams, furrows, drains and water supplies.
- If the original surface of the ground is disturbed in connection with the Works, it shall be made good by the Contractor to the satisfaction of the land owner, occupier or responsible authority.
- 21.6 The Contractor shall take all reasonable steps to minimise noise and disturbance when carrying out the Works, including work permitted outside normal working hours.
- 21.7 Dumping of waste or excess materials by the Contractor shall, in urban areas, be done under the direction and control of, and at sites made available by the local authority. Dumping outside local authority boundaries shall be done only with the express permission and under the direction and control of the Contract Supervisor.
- 21.8 The Contractor shall comply with environmental protection measures and specifications stipulated by the Contract Supervisor and/or local and environmental authorities.
- 22.0 INTERFERENCE WITH THE NETWORK OPERATOR'S ASSETS AND WORK ON OPEN LINES**
- 22.1 The Contractor shall not interfere in any manner whatsoever with an open line, nor shall he carry out any work or perform any act which affects the security, use or safety of an open line except with the authority of the Contract Supervisor and in the presence of a duly authorised representative of the network operator.
- 22.2 The Contractor shall not carry out any work or operate any plant, or place any material whatsoever nearer than three metres from the centre line of any open line except with the written permission of the Contract Supervisor and subject to such conditions as he may impose.
- 22.3 Care must be taken not to interfere with or damage any services such as overhead wire routes, cables or pipes and optical fibre cable, except as provided for the work specified. The Contractor will be held responsible for any damage to or interruption of such services arising from any act or omission on his part or of any of his employees, or persons engaged by him on the Works. The cost of repairing, replacing or restoring the services, as well as all other costs arising from any damage to services, shall be borne by, and will be recovered from the Contractor.
- 22.4 Authority granted by the Contract Supervisor and the presence of an authorised representative of the network operator in terms hereof, shall not relieve the Contractor of his duty to comply with this specification.
- 23.0 ACCESS, RIGHTS-OF-WAY AND CAMPSITES**
- 23.1 Where entry onto the network operator's property is restricted, permission to enter will be given only for the purpose of carrying out the Works and will be subject to the terms and conditions laid down by the network operator.
- 23.2 The Contractor shall arrange for campsites, workplaces and access thereto as well as for any right-of-

way over private property to the site of the Works, and for access within the boundaries of the network operator's property. The owners of private property to be traversed shall be approached and treated with tact and courtesy by the Contractor, who shall, if necessary, obtain a letter of introduction to such property owners from the Contract Supervisor.

The Contractor shall be responsible for the closing of all gates on roads and tracks used by him or his employees. Except with the prior approval of the Contract Supervisor and the owner or occupier of any private land to be traversed, the Contractor shall not cut, lower, damage, remove or otherwise interfere with any fence or gate which is either on the network operator's property or on private property and which restricts access to the Works. Where such approval has been given, the Contractor shall prevent entry of animals or unauthorised persons onto the network operator's or private property, and shall make the fences safe against trespass at the close of each day's work.

- 23.3 The Contractor shall take all reasonable steps to confine the movement of vehicles and plant to the approved right-of-way to minimise damage to property, crops and natural vegetation.
- 23.4 When access is no longer required, and before completion of the Works, the Contractor shall repair, restore or replace any fence or gate damaged during execution of the Works to the satisfaction of the Contract Supervisor and shall furnish the Contract Supervisor with a certificate signed by the owner and occupier of land over which he has gained access to a campsite, workplace and the Works, certifying that the owner and occupier have no claim against the Contractor or the network operator arising from the Contractor's use of the land. Should the Contractor be unable to obtain the required certificate, he shall report the circumstances to the Contract Supervisor.

24.0 SUPERVISION

- 24.1 The Contract Supervisor will provide overall technical superintendence of the Works, and may direct the Contractor in terms of the provisions of the Contract or in respect of any measures which the Contract Supervisor may require for the operations of the network operator, the safety of trains, property and workmen of the network operator, and for the safety of other property and persons. The Contractor shall carry out the directions of the Contract Supervisor. The superintendence exercised by the Contract Supervisor, including any agreement, approval, refusal or withdrawal of any approval given, shall not relieve the Contractor of any of his duties and liabilities under the Contract, and shall not imply any assumption by the network operator or by the Contract Supervisor of the legal and other responsibilities of the Contractor in carrying out the Works.
- 24.2 The Contract Supervisor may delegate to any deputy or other person, any of his duties or functions under the Contract. On receiving notice in writing of such delegation, the Contractor shall recognise and obey the deputy or person to whom any such duties or functions have been delegated as if he were the Contract Supervisor.
- 24.3 The Contractor shall exercise supervision over the Works at all times when work is performed or shall be represented by an agent having full power and authority to act on behalf of the Contractor. Such agent shall be competent and responsible, and have adequate experience in carrying out work of a similar nature to the Works, and shall exercise personal supervision on behalf of the Contractor. The Contract Supervisor shall be notified in writing of such appointment which will be subject to his approval.
- 24.4 The Contractor or his duly authorised agent shall be available on the site at all times while the Works are in progress to receive the orders and directions of the Contract Supervisor.

25.0 HOUSING OF EMPLOYEES

- 25.1 The Contractor shall, where necessary, make his own arrangements for suitable housing of his employees. Where temporary housing is permitted by the Contract Supervisor on any part of the site, the Contractor shall provide suitable sanitation, lighting and potable water supplies in terms of the requirements of the local authority or the current network operator's specification; Minimum Communal Health Requirements in Areas outside the Jurisdiction of a Local Authority - E.4B, as applicable.
- 25.2 Fouling the area inside or outside the network operator's boundaries shall be prevented. The Contractor will be called upon by the Contract Supervisor to dispose of any foul or waste matter generated by the Contractor.

26.0 OPTICAL FIBRE CABLE ROUTES

- 26.1 The Contractor shall not handle, impact, move or deviate any optical fibre cable without prior approval.
- 26.2 Works that in any way affect the optical fibre cable requires prior approval from the Contract Supervisor

who will determine the work method and procedures to be followed.

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PART B - SPECIFICATION FOR WORK NEAR HIGH-VOLTAGE ELECTRICAL EQUIPMENT

27.0 GENERAL

- 27.1 This specification is based on the contents of Transnet's publication ELECTRICAL SAFETY INSTRUCTIONS, as amended, a copy of which will be made available on loan to the Contractor for the duration of the contract.
- These instructions apply to all work near "live" high-voltage equipment maintained and/or operated by the network operator, and the onus rests on the Contractor to ensure that he obtains a copy.
- 27.2 This specification must be read in conjunction with and not in lieu of the Electrical Safety Instructions.
- 27.3 The Contractor's attention is drawn in particular to the contents of Part I, Sections 1 and 2 of the Electrical Safety Instructions.
- 27.4 The Electrical Safety Instructions cover the minimum safety precautions which must be taken to ensure safe working on or near high-voltage electrical equipment, and must be observed at all times. Should additional safety measures be considered necessary because of peculiar local conditions, these may be ordered by and at the discretion of the Electrical Officer (Contracts).
- 27.5 The Contractor shall obtain the approval of the Electrical Officer (Contracts) before any work is done which causes or could cause any portion of a person's body or the tools he is using or any equipment he is handling, to come within 3 metres of any "live" high-voltage equipment.
- 27.6 The Contractor shall regard all high-voltage equipment as "live" unless a work permit is in force.
- 27.7 Safety precautions taken or barriers erected shall comply with the requirements of the Electrical Officer (Contracts), and shall be approved by him before the work to be protected is undertaken by the Contractor. The Contractor shall unless otherwise agreed, bear the cost of the provision of the barriers and other safety precautions required, including the attendance of the network operator's staff where this is necessary.
- 27.8 No barrier shall be removed unless authorised by the Electrical Officer (Contracts).

28.0 WORK ON BUILDINGS OR FIXED STRUCTURES

- 28.1 Before any work is carried out or measurements are taken on any part of a building, fixed structure or earthworks of any kind above ground level situated within 3 metres of "live" high-voltage equipment, the Electrical Officer (Contracts) shall be consulted to ascertain the conditions under which the work may be carried out.
- 28.2 No barrier erected to comply with the requirements of the Electrical Officer (Contracts) shall be used as temporary staging or shuttering for any part of the Works.
- 28.3 The shuttering for bridge piers, abutments, retaining walls or parapets adjacent to or over any track may be permitted to serve as a barrier, provided that it extends at least 2,5 metres above any working level in the case of piers, abutments and retaining walls and 1,5 metres above any working level in the case of parapets.

29.0 WORK DONE ON OR OUTSIDE OF ROLLING STOCK, INCLUDING LOADING OR UNLOADING

- 29.1 No person may stand, climb or work, whilst on any platform, surface or foothold:
- 29.1.1 higher than the normal unrestricted access way, namely -
 - 29.1.1.1 external walkways on diesel, steam and electric locomotives, steam heat vans, etc. and
 - 29.1.1.2 walkways between coaches and locomotives.
 - 29.1.2 of restricted access ways in terms of the Electrical Safety Instructions namely -
 - 29.1.2.1 the floor level of open wagons
 - 29.1.2.2 external walkways or decks of road-rail vehicles, on-track maintenance machines and material trains.
 - 29.1.3 Unauthorised staff working on these platforms must be directly supervised by duly authorised persons in terms of clause 607.1.3 of the Electrical Safety Instructions. These persons must attend the relevant electrical safety module training. A letter of training must then be issued by an accredited training authority. A Category C Certificate of Authority must be obtained from the

local depot examining officer.

- 29.2 When in the above positions no person may raise his hands or any equipment he is handling above his head.
- 29.3 In cases where the Contractor operates his own rail mounted equipment, he shall arrange for the walkways on this plant to be inspected by the Electrical Officer (Contracts) and approved, before commencement of work.
- 29.4 The handling of long lengths of material such as metal pipes, reinforcing bars, etc should be avoided, but if essential they shall be handled as nearly as possible in a horizontal position below head height.
- 29.5 The Responsible Representative shall warn all persons under his control of the danger of being near "live" high-voltage equipment, and shall ensure that the warning is fully understood.
- 29.6 Where the conditions in clauses 30.1 to 30.4 cannot be observed the Electrical Officer (Contracts), shall be notified. He will arrange for suitable Safety measures to be taken. The Electrical Officer (Contracts), may in his discretion and in appropriate circumstances, arrange for a suitable employee of the Contractor to be specially trained by the network operator and at the Contractor's cost, as an Authorised Person to work closer than 3 metres from "live" overhead conductors and under such conditions as may be imposed by the senior responsible electrical engineer of the network operator.

30.0 USE OF EQUIPMENT

30.1 Measuring Tapes and Devices

- 30.1.1 Measuring tapes may be used near "live" high-voltage equipment provided that no part of any tape or a person's body comes within 3 metres of the "live" equipment.
- 30.1.2 In windy conditions the distance shall be increased to ensure that if the tape should fall it will not be blown nearer than 3 metres from the "live" high-voltage equipment.
- 30.1.3 Special measuring devices longer than 2 metres such as survey sticks and rods may be used if these are of non-conducting material and approved by the responsible Electrical Engineer of the network operator, but these devices must not be used within 3 metres of "live" high-voltage equipment in rainy or wet conditions.
- 30.1.4 The assistance of the Electrical Officer (Contracts) shall be requested when measurements within the limits defined in clauses 31.1.1 to 31.1.3 are required.
- 30.1.5 The restrictions described in 31.1.1 to 31.1.3 do not apply on a bridge deck between permanent parapets nor in other situations where a barrier effectively prevents contact with the "live" high-voltage equipment.

30.2 Portable Ladders

- 30.2.1 Any type of portable ladder longer than 2 metres may only be used near "live" high-voltage equipment under the direct supervision of the Responsible Representative. He shall ensure that the ladder is always used in such a manner that the distance from the base of the ladder to any "live" high-voltage equipment is greater than the fully extended length of the ladder plus 3 metres. Where these conditions cannot be observed, the Electrical Officer (Contracts) shall be advised, and he will arrange for suitable safety measures to be taken.

31.0 CARRYING AND HANDLING MATERIAL AND EQUIPMENT

- 31.1 Pipes, scaffolding, iron sheets, reinforcing bars and other material which exceeds 2 metres in length shall be carried completely below head height near "live" high-voltage equipment. For maximum safety such material should be carried by two or more persons so as to maintain it as nearly as possible in a horizontal position. The utmost care must be taken to ensure that no part of the material comes within 3 metres of any "live" high-voltage equipment.
- 31.2 Long lengths of wire or cable shall never be run out in conditions where a part of a wire or cable can come within 3 metres of any "live" high-voltage equipment unless the Electrical Officer (Contracts) has been advised and has approved appropriate safety precautions.
- 31.3 The presence of overhead power lines shall always be taken account of especially when communications lines or cables or aerial cables, stay wires, etc. are being erected above ground level.

32.0 PRECAUTIONS TO BE TAKEN WHEN ERECTING OR REMOVING POLES, ANTENNAE, TREES ETC.

- 32.1 A pole may be handled for the purpose of erection or removal near high-voltage equipment under the following conditions:

- (i) If the distance between the point at which the pole is to be erected or removed and the nearest "live" high-voltage equipment is more than the length of the pole plus 3 metres, the work shall be supervised by the Responsible Representative.
- (ii) If the distance described in (i) is less than the length of the pole plus 3 metres, the Electrical Officer (Contracts) shall be consulted to arrange for an Authorised Person to supervise the work and to ensure that the pole is earthed where possible. The pole shall be kept in contact with the point of erection, and adequate precautions shall be taken to prevent contact with "live" high-voltage equipment.
- 32.2 The cost of supervision by an Authorised Person and the provision of earthing shall, unless otherwise agreed, be borne by the Contractor.
- 32.3 The provisions of clauses 33.1 and 33.2 shall also apply to the erection or removal of columns, antennae, trees, posts, etc.
- 33.0 USE OF WATER**
- 33.1 No water shall be used in the form of a jet if it can make contact with any "live" high-voltage equipment or with any person working on such equipment.
- 34.0 USE OF CONSTRUCTION PLANT**
- 34.1 "Construction plant" entails all types of plant including cranes, piling frames, boring machines, excavators, draglines, dewatering equipment and road vehicles with or without lifting equipment.
- 34.2 When work is being undertaken in such a position that it is possible for construction plant or its load to come within 3 metres of "live" high-voltage equipment, the Electrical Officer (Contracts) shall be consulted. He will arrange for an Authorised Person to supervise the work and to ensure that the plant is adequately earthed. The Electrical Officer (Contracts) will decide whether further safety measures are necessary.
- 34.3 The cost of any supervision by an Authorised Person and the provision of earthing shall, unless otherwise agreed, be borne by the Contractor.
- 34.4 When loads are handled by cranes, non-metallic rope hand lines shall be used, affixed to such loads so as to prevent their swinging and coming within 3 metres of "live" high-voltage equipment.
- 34.5 Clauses 35.1 to 35.4 shall apply *mutatis mutandis* to the use of maintenance machines of any nature.
- 35.0 WORK PERFORMED UNDER DEAD CONDITIONS UNDER COVER OF A WORK PERMIT**
- 35.1 If the Responsible Representative finds that the work cannot be done in safety with the high-voltage electrical equipment "live", he shall consult the Electrical Officer (Contracts) who will decide on the action to be taken.
- 35.2 If a work permit is issued the Responsible Representative shall-
- (i) before commencement of work ensure that the limits within which work may be carried out have been explained to him by the Authorised Person who issued the permit to him, and that he fully understands these limits.
- (ii) sign portion C of the permit before commencement of work;
- (iii) explain to all persons under his control the limits within which work may be carried out, and ensure that they fully understand these limits;
- (iv) care for the safety of all persons under his control whilst work is in progress; and
- (v) withdraw all personnel under his control from the equipment on completion of the work before he signs portion D of the work permit.
- 36.0 TRACTION RETURN CIRCUITS IN RAILS**
- 36.1 DANGEROUS CONDITIONS CAN BE CREATED BY REMOVING OR SEVERING ANY BOND.
- 36.2 Broken rails with an air gap between the ends, and joints at which fishplates are removed under "broken bond" conditions, are potentially lethal. The rails on either side of an air gap between rail ends on electrified lines shall not be touched simultaneously until rendered safe by the network operator personnel.
- 36.3 The Contractor shall not break any permanent bonds between rails or between rails and any structure. He shall give the Contract Supervisor at least 7 days written notice when removal of such bonds is necessary.

36.4 No work on the track which involves interference with the traction return rail circuit either by cutting or removing the rails, or by removal of bonds shall be done unless the Electrical Officer (Contracts) is consulted. He will take such precautions as may be necessary to ensure continuity of the return circuit before permitting the work to be commenced.

37.0 HIGH-VOLTAGE ELECTRICAL EQUIPMENT NOT MAINTAINED AND/OR OPERATED BY THE NETWORK OPERATOR

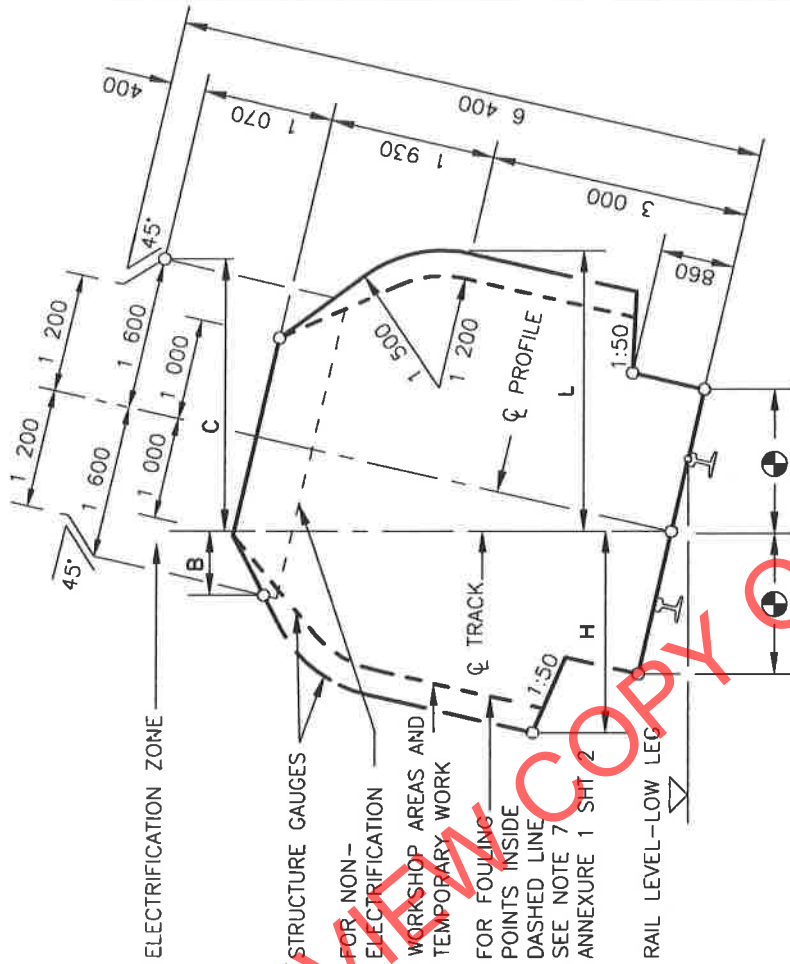
Where the work is undertaken on or near high-voltage electrical equipment which is not maintained and/or operated by the network operator, the Occupational Health and Safety Act No. 85 of 1993, and Regulations and Instructions, or the Mines Health and Safety Act (Act 29 of 1996), shall apply.

Such equipment includes:-

- (i) Eskom and municipal equipment;
- (ii) The Contractor's own power supplies; and
- (iii) Electrical equipment being installed but not yet taken over from the Contractor.

END

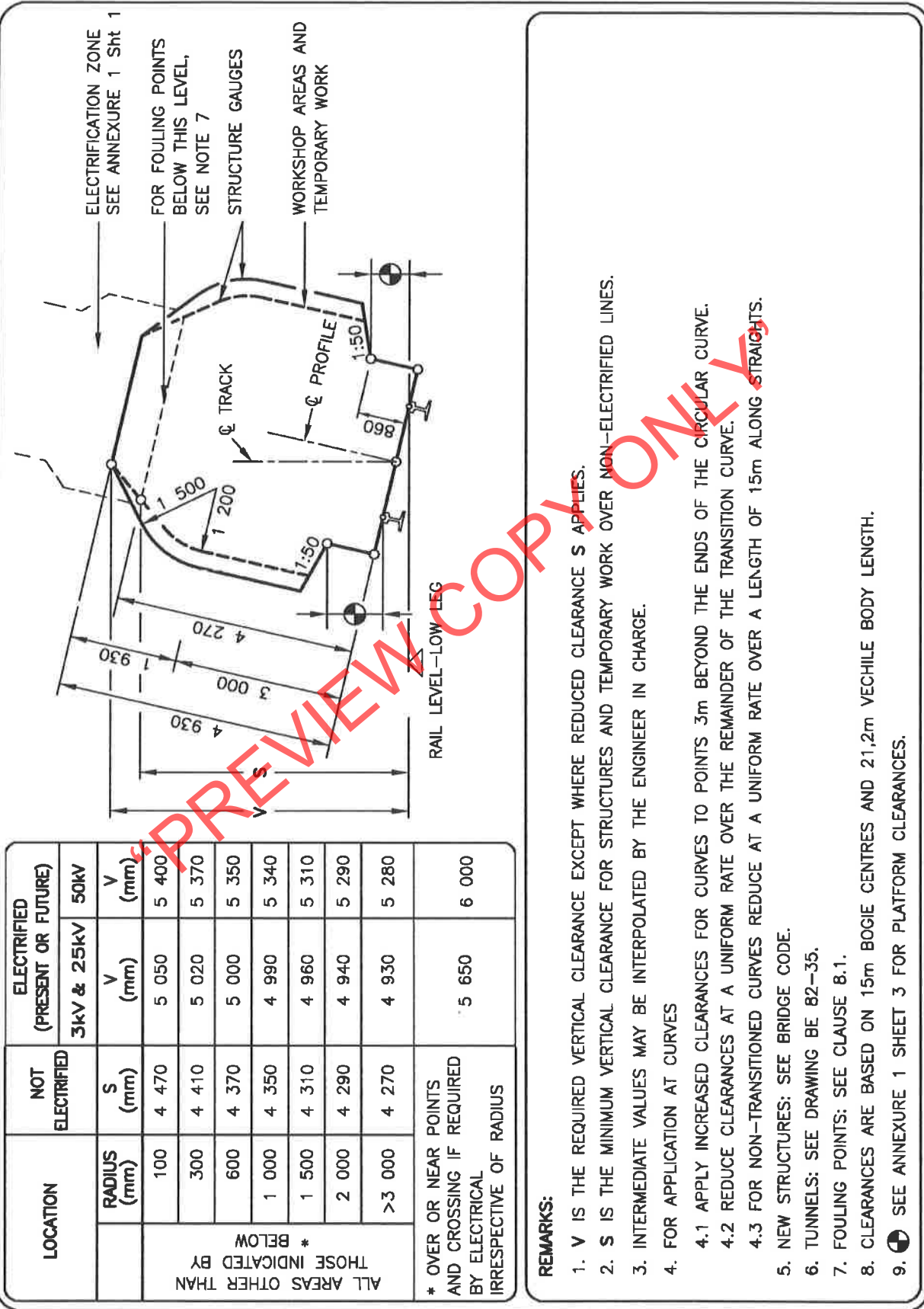
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RADIUS (m)	WITH CANT		NO CANT	
	H (mm)	L (mm)	H & L	C (mm)
90	2 730	3 090	2 780	2 100
100	2 700	3 030	2 750	2 050
120	2 650	2 970	2 700	2 010
140	2 620	2 920	2 660	1 990
170	2 590	2 870	2 630	1 970
200	2 570	2 820	2 600	1 950
250	2 550	2 790	2 580	1 920
300	2 540	2 760	2 560	1 900
350	2 530	2 730	2 540	1 890
400	2 520	2 710	2 530	1 875
500	2 510	2 680	2 520	1 850
600	2 500	2 660	2 510	1 830
800	2 490	2 620	2 500	1 790
1 000	2 480	2 600	2 490	1 760
1 200	2 480	2 580	2 490	1 730
1 500	2 480	2 550	2 480	1 700
2 000	2 480	2 500	2 480	1 660
3 000	2 470	2 470	2 470	1 600
>5 000	2 460	2 460	2 460	1 600

REMARKS:

1. H AND B IS THE REQUIRED HORIZONTAL CLEARANCE ON THE OUTSIDE OF THE CURVE BASED ON MINIMUM CANT.
2. L AND C IS THE REQUIRED HORIZONTAL CLEARANCE ON THE INSIDE OF THE CURVE BASED ON MAXIMUM CANT.
3. INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
4. FOR WORKSHOP AREAS AND TEMPORARY WORK, CLEARANCES H AND L MAY BE REDUCED BY 300mm.
5. SEE ANNEXURE 1 SHEET 3 FOR PLATFORM CLEARANCES.
6. ALSO REFER TO REMARKS 4 TO 8 OF ANNEXURE 1 SHEET 2.

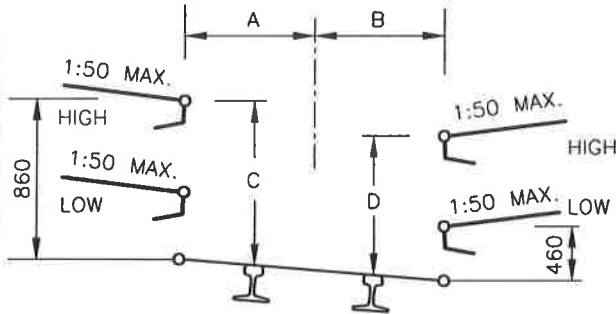


REMARKS:

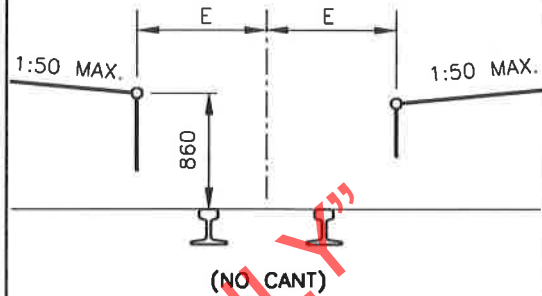
1. V IS THE REQUIRED VERTICAL CLEARANCE EXCEPT WHERE REDUCED CLEARANCE S APPLIES.
2. S IS THE MINIMUM VERTICAL CLEARANCE FOR STRUCTURES AND TEMPORARY WORK OVER NON-ELECTRIFIED LINES.
3. INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
4. FOR APPLICATION AT CURVES
 - 4.1 APPLY INCREASED CLEARANCES FOR CURVES TO POINTS 3m BEYOND THE ENDS OF THE CIRCULAR CURVE.
 - 4.2 REDUCE CLEARANCES AT A UNIFORM RATE OVER THE REMAINDER OF THE TRANSITION CURVE.
 - 4.3 FOR NON-TRANSITIONED CURVES REDUCE AT A UNIFORM RATE OVER A LENGTH OF 15m ALONG STRAIGHTS.
5. NEW STRUCTURES: SEE BRIDGE CODE.
6. TUNNELS: SEE DRAWING BE 82-35.
7. FOULING POINTS: SEE CLAUSE 8.1.
8. CLEARANCES ARE BASED ON 15m BOGIE CENTRES AND 21,2m VEHICLE BODY LENGTH.
9. SEE ANNEXURE 1 SHEET 3 FOR PLATFORM CLEARANCES.

PLATFORMS : TRACK GAUGE 1 065mm

PASSENGERS



GOODS

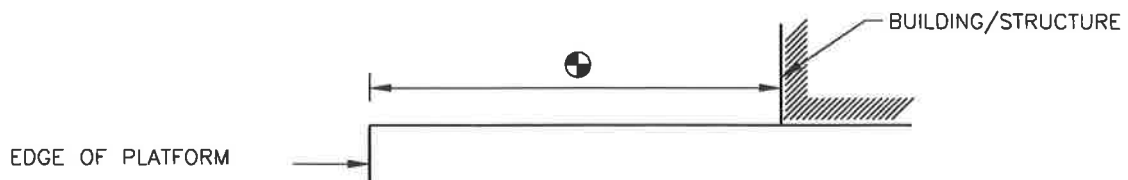


RADIUS (m)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
90	1 690	1 820	890	810	1 840
100	1 650	1 790	890	810	1 810
120	1 610	1 740	890	810	1 760
140	1 580	1 700	890	810	1 720
170	1 550	1 660	890	810	1 690
200	1 530	1 630	890	820	1 670
250	1 520	1 600	890	820	1 640
300	1 520	1 580	890	830	1 620
350	1 520	1 560	880	830	1 600
400	1 520	1 550	880	840	1 590
500	1 520	1 540	880	850	1 580
600	1 520	1 530	870	850	1 570
800	1 520	1 520	860	860	1 560
1 200	1 520	1 520	860	860	1 550
2 000	1 520	1 520	860	860	1 540
3 000	1 520	1 520	860	860	1 530
STRAIGHT	1 520	1 520	860	860	1 520

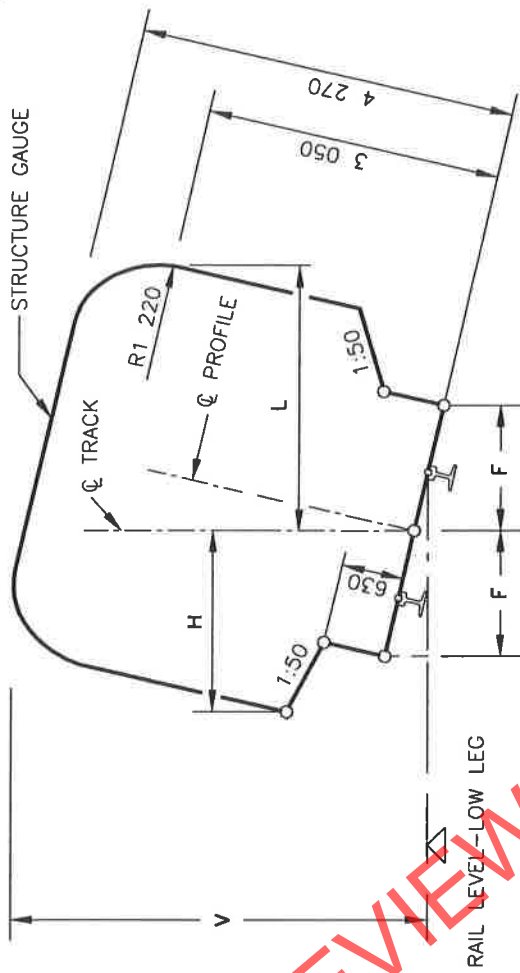
REMARKS:

1. NO CANT TO BE APPLIED EXCEPT WHEN THE GOODS PLATFORM IS ON A RUNNING LINE.
2. INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
3. \ominus 8m TO MAIN STATION-BUILDINGS AND 3m TO ALL OTHER STRUCTURES.
4. TOLERANCES : SEE CLAUSE 8.0.10.

STRUCTURES ON PLATFORMS : 1 065mm AND 610mm TRACK GAUGE



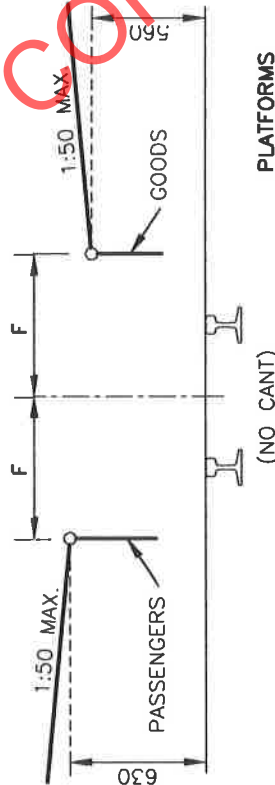
CLEARANCES : 610mm TRACK GAUGE



RADIUS (m)	F (mm)
50	1 550
60	1 510
80	1 460
100	1 430
120	1 410
140	1 390
170	1 380
200	1 370
250	1 360
300	1 350
600	1 330
1 000	1 320
>2 000	1 320
STRAIGHT	1 310

RADIUS (m)	WITH CANT		NO CANT		V (mm)
	H (mm)	L (mm)	H & L (mm)	V (mm)	
50	2 370	2 490	2 400	4 320	
70	2 310	2 420	2 330	4 310	
100	2 260	2 370	2 280	4 310	
140	2 220	2 340	2 250	4 310	
200	2 200	2 300	2 220	4 300	
300	2 190	2 270	2 200	4 300	
500	2 180	2 230	2 190	4 290	
700	2 170	2 200	2 180	4 270	
1 000	2 170	2 170	2 170	4 270	
>2 000	2 160	2 160	2 160	4 270	

CLEARANCES



PLATFORMS

(NO CANT)

REMARKS:

- H IS THE MINIMUM HORIZONTAL CLEARANCE ON THE OUTSIDE OF THE CURVE BASED ON MINIMUM CANT.
- L IS THE MINIMUM HORIZONTAL CLEARANCE ON THE INSIDE OF THE CURVE BASED ON MAXIMUM CANT.
- V IS THE MINIMUM VERTICAL CLEARANCE.
- FOR APPLICATION AT CURVES:
 - 1 APPLY INCREASED CLEARANCES FOR CURVES TO POINTS 2m BEYOND THE ENDS OF THE CIRCULAR CURVE.
 - 2 REDUCE CLEARANCES AT A UNIFORM RATE OVER THE REMAINDER OF THE TRANSITION CURVE.
 - 3 FOR NON-TRANSITIONED CURVES REDUCE AT A UNIFORM RATE OVER A LENGTH OF 18m ALONG STRAIGHTS.
- INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
- ALSO REFER TO REMARKS 5, 6 AND 7 OF ANNEXURE 1 SHEET 2.
- CLEARANCES ARE BASED ON 9 700mm BOGIE CENTRES AND 13 700mm VEHICLE BODY LENGTH.
- SEE ANNEXURE 1 SHEET 3 FOR STRUCTURES ON PLATFORMS.

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Appendix 2
The Generic Layout of Substation Building

