



VEGETATION CONTROL AT LEVEL CROSSINGS

TECHNICAL CONTRACT SPECIFICATIONS

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1 SCOPE OF WORK

- 1.1 This contract covers the control of vegetation at mainly Level Crossings by means of mechanical and chemical control on Transnet property.
- 1.2 The essence of the Contract is that TRIM (TRANSNET RAIL INFRASTRUCTURE MANAGER) requires the control of living vegetation and the management of dead remains of previously living vegetation, to the extent that areas treated in terms of the Contract are free from any form of vegetation (dead or otherwise) which may obstruct, hinder or interfere with operational activities, or have the potential to damage equipment or facilities, on tracks or other areas included in the Contract.
- 1.3 The ways and means by which the above-mentioned results are obtained are the responsibility of the Supplier. TRIM, however, shall have the right to monitor the materials and activities of the Supplier to ascertain that all procedures and herbicidal applications are in **accordance with his/her tender, the relevant legislation and are conducive to the achievement of long-term control of vegetation**. Such right of monitoring shall be entirely without prejudice to TRIM and shall in no way relieve the Supplier of his/her responsibility for satisfactory control of vegetation.
- 1.4 Failure to comply with the minimum performance proposed by the Supplier in his/her tender may form the basis for non-payment for work done, pending the achievement of control as defined and/or termination or cancellation of the Contract.
- 1.5 The Supplier must obtain his/her own information regarding the extent, occurrence and the species of the vegetation over the work area and must also determine the best method to control the vegetation.
- 1.6 The performance due by the Supplier shall include any work arising from or incidental to the above or required of the Supplier for the proper completion of the Contract in accordance with the true meaning and intent of the Contract documents.

2 SUFFICIENCY OF TENDER

- 2.1 The Contract will only be awarded to a Supplier who has the required experience in the application of herbicides in Southern Africa as stipulated in terms of the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, Act 36 of 1947.

3 DURATION OF CONTRACT

- 3.1 The work provides for the control of vegetation in mainly yards for commencement on the date of notification of acceptance of tender with TRIM for **2 years**. The start and completion date of the Contract must be aligned with the of the start of the annual rainy season for the areas as specified in the schedule of quantities **not exceeding 24 months** (as per clause 11.4)

4 LOCATION OF THE WORKS

- 4.1 The location of the works is as indicated in the Bill of Quantities in the geographical area controlled by the Depot Engineering Manager.
- 4.2 TRIM's representative will provide one-copy schematic diagrams to the successful Supplier,

indicating the areas to be treated.

5 TO PROVIDED BY TRIM

- 5.1 The following material, equipment and services will be provided free of charge by TRIM where required:
 - 5.1.1 Water as required from TRIM's existing points of supply; such water may be untreated, chemically treated or borehole water. The Supplier shall be responsible for all work and equipment needed to fill the water trucks or spray units from the water point provided and to ensure that the water is suitable for its intended use. These water points may be up to 200km apart.
 - 5.1.2 Road vehicle accessibility via service roads to the work site is not always possible.
 - 5.1.3 Inspections of the areas of work by motor trolley may be arranged with the Project Manager's Deputy, but will have to coincide with normal track inspections carried out by the inspection /technical staff of the Depot. The Project Manager's Deputy shall be given timeous notice (4 calendar weeks) of the Supplier's intention to inspect.
- 5.2 Plant and Material
 - 5.2.1 Any plant and/or equipment provided to the Supplier at the beginning of the Contract shall be returned to TRIM in the same condition, normal wear and tear accepted. Any loss or damage shall be made good by the Supplier, or the value thereof will be deducted from moneys falling due to him/her.
 - 5.2.2 The Supplier shall provide written certification of compliance with specification of any materials (chemical) or equipment supplied by him / her.

6 TO BE PROVIDED BY THE SUPPLIER

- 6.1 In addition to all labour materials, plant, equipment and incidentals needed to complete the work, the Supplier shall provide all accommodation and toilet facilities for his/her employees.
- 6.2 The Supplier shall provide safe and secure storage facilities for all herbicides brought onto and in use on the site. Such facilities shall be capable of ensuring that unauthorised persons or animals cannot gain access to such herbicide.
- 6.3 The Supplier shall provide at his/her own cost any security measures he/she may deem necessary for safe and effective execution of the work within the Contract area.
- 6.4 The personnel of the Supplier shall at all times, while on Transnet property and during vegetation control operations, wear reflective safety jackets. These jackets must either be yellow or light blue or preferably bear the name of the Supplier's company. Should the Supplier wish to use another colour this must first be cleared with the Project Manager's Deputy.
- 6.5 An effective safety procedure to be followed by all personnel on any TRIM work site shall be compiled by the Supplier and implemented before any work commences. The procedure shall be updated whenever the need arises and any changes shall be communicated to all employees on a work site before work proceeds.
- 6.6 When required the Supplier shall appoint at each work site sufficient personnel whose sole task

shall be to be on the lookout for approaching rail traffic. These employees shall operate an audible warning device to timeously warn all people on the work site of approaching rail traffic.

- 6.7 An effective safety procedure to be followed by all personnel on any work site in the case of approaching rail traffic shall be compiled by the Supplier and implemented before any work commences. The procedure shall be updated whenever the need arises and any changes shall be communicated to all employees on a work site before work proceeds.
- 6.8 The Supplier shall make available employees to be trained, certificated and used as Lookouts when required. The training shall be done at no charge to the Supplier.

7 EXISTING SERVICES

- 7.1 Reinstatement of services and property damaged during execution of the work.
- 7.2 Any damages caused by the Supplier to Transnet property and services shall be rectified by the Supplier at his own cost and to the full satisfaction of the TRIMS's representative.

8 MANAGEMENT OF THE WORKS

8.1 SITE MEETINGS

The Supplier shall attend site meetings when required. These meetings will be held under the chairmanship of Transnet's representative. These meetings will be conducted to monitor progress and discuss agreed issues when required. A register will be kept of attendance and a minute of the proceedings will be recorded and distributed afterwards. When sub-Suppliers are required to attend, the Supplier shall ensure their attendance.

8.2 SITE BOOKS

- 8.2.1 A Site Instruction Book, A4 size, with triplicate pages shall be provided by the Supplier. The format for written communication on site shall be the Site Instruction Book. The site instruction shall have numbered sheet for receiving and recording instructions by the Employer's representative and shall be clearly marked "Site Instruction Book".
- 8.2.2 A Daily Diary Book with triplicate pages shall be provided by the Supplier and be available on site at all times. The number of staff and plant on site for every day shall be recorded. The hours of actual work and the accurate amount of work measured per item as in the Schedule of Quantities completed for each day shall also be recorded and signed off by both TRIM and the Supplier at the end of each day. This site diary shall also serve as a daily record of all relevant information concerning herbicide application and site conditions prevailing on site and as required in terms of section 16 of Act 36 of 1947.
- 8.2.3 Only persons authorised in writing by the Project Manager or Supplier may make entries in the site books.

8.3 PROGRAMME OF WORK

- 8.3.1 The Supplier shall undertake the detailed planning and programming of the entire vegetation control operation and shall submit this with the tender document. The programme shall be aligned with the commencement of the annual rainy season.

- 8.3.2 The Supplier shall within 2 weeks from the date of notification by TRIM of the acceptance of his/her tender or the commencement of the annual rainy season as the case may be start with the initial treatment as submitted with the tender document.
- 8.3.3 The items listed below will form part of the evaluation criteria during tender evaluation. The particulars to be provided in respect of the Supplier's vegetation control programme shall include but not be limited to the following:
- 8.3.3.1 An undertaking that all spraying equipment will be ready for operation and that the spraying can commence timeously, to comply with requirements of the contract.
- 8.3.3.2 An assessment, based on a proper site investigation of the nature and types of vegetation (a list) to be controlled in the Contract area.
- 8.3.3.3 A schedule of the plant and equipment dedicated to this project and available while on site.
- 8.3.3.4 The appropriate methods and procedures to be implemented by him/her to achieve the standards of vegetation control required in terms of the Contract,
- 8.3.3.5 The herbicides to be applied, design mixes, rates of application and the timing and number of applications.
- A list of registered products to be used in the work, supported by specimen labels and material safety data sheets, indicating:
- Trade name
 - Generic name
 - Registration Number
 - Ingredients (type and content) as shown on the label
 - Application rates
- 8.3.3.6 The methods and procedures to be implemented in the handling of herbicides pertaining to health and safety, quality control, protection of third parties and security,
- 8.3.4 The Supplier shall conduct regular site investigations and monitoring procedures for the purpose of:
- Ascertaining the nature of weed infestation and factors that could influence the work;
 - monitoring the standard of weed control achieved;
 - identifying any damage or hazards which may have been caused by the weed control operation, and
 - planning of timeous execution of remedial work where control is not being achieved.
- 8.3.5 The Supplier's programme shall allow for the initial application of herbicides to coincide with the rainy season, for achieving maximum success. **The programme shall be completed in the shortest possible time.**
- 8.3.5.1 The programme shall be based on the quantities and numbers of worklots shown in the Bill of Quantities.
- 8.3.5.2 Failure by the Supplier to deliver on what was stated by him/her in the tender document

shall constitute a material breach of Contract by the Supplier, which will entitle the Employer to act in terms of the Standard Terms and Conditions of Contract for the provision of services to Transnet.

- 8.3.5.3 In addition to the annual programme provided the Supplier shall submit daily working programmes to the Project Manager's Deputy, 7 days in advance of the next working week, indicating the specific areas where the Supplier will be working each day of the week. Failure by the Supplier to submit a daily programme and/or deviating from it without notifying the Project Manager's Deputy, preventing him/her from monitoring the Supplier's performance, may result in payment for such work being withheld.
- 8.3.5.4 It is required that for the duration of the Contract that the supplier shall base his / her work programme on the provision of a minimum of 3 fully operational teams, to commence work at different locations as will be indicated by the Project Manager's Deputy.
- 8.4 Whether the tenderer intends to work on Saturdays, Sundays or statutory holidays or is prepared to work on such days if required to do so by TRIM.

8.5 PERFORMANCE MONITORING INSPECTIONS

- 8.5.1 The Supplier shall at all times be responsible for supervision of the work and for follow-up inspections to monitor the successful control achieved over areas of completed application. He/she shall immediately take appropriate remedial action in areas where the specified standards of control are not achieved.
- 8.5.2 The Project Manager's Deputy shall at any time during the application periods carry out inspections of the Supplier's performance methods and procedures. He/she may at any time take samples of the chemicals applied and arrange for the testing thereof. Where test-samples fail to conform to the specifications the costs of testing will be recovered from the Supplier and he/she may be ordered by the Project Manager's Deputy to re-treat entire worklots or sections where such chemicals were applied.
- 8.5.3 The Project Manager's Deputy will during each growth season carry out three official inspections of the work per annum for the purpose of measuring progress and evaluating whether control, as defined, has been achieved. The inspections shall be performed visually and the Supplier shall be present or forfeit his/her right to dispute the measurements and evaluation of the Project Manager's Deputy.
- 8.5.4 The first inspection shall be done at, or within [20] weeks after completion of the Supplier's initial spraying programme and after he/she has notified the Project Manager's Deputy that he/she has inspected the work and that control has been achieved. This inspection may be brought forward but not by more than four (4) weeks.
- 8.5.5 The second inspection of the season will be carried out at, or within [36] weeks after completion of the Supplier's initial spraying programme and after he/she has notified the Project Manager's Deputy that he/she has inspected the work and that control has been achieved. This inspection may be brought forward but not by more than four (4) weeks.
- 8.5.6 During each of these inspections the worklots treated will each be measured and evaluated. A

worklot that does not comply with the specified level of control will be recorded as a “rejected worklot”.

- 8.5.7 The rejection of worklots that do not comply with the standard of control for individual worklots will be final and valid for that inspection in that particular year.

The rejection by the Project Manager’s Deputy of work performance may be contested by the Supplier only at the time and place of rejection.

The rejection of a worklot at a particular inspection shall remain final for that inspection for payment purposes, notwithstanding the fact that the Supplier may execute further remedial work in order to achieve control at further and final inspections.

- 8.5.8 In the case where the Project Manager’s Deputy and the Supplier fail to agree on whether a worklot has failed, the worklot shall be recorded as a “disputed worklot” and the Supplier shall prepare an appropriate record of all disputed worklots in order that such disputes may be resolved by way of the disputes resolution procedures.

9 PRICING INSTRUCTIONS

9.1 GENERAL

- 9.1.1 The prices and rates must cover all costs and expenses that may be required for the execution of the works.
- 9.1.2 The quantities set out in the Bill of Quantities are estimated and may be more or less than stated. The Supplier shall submit with the tender a complete and detailed priced Schedule of Quantities (prepared in black ink) for the Works.
- 9.1.3 Each item shall be priced by the Supplier. If the Supplier has omitted to price any items in the Schedule of Quantities, the tender will be regarded as non-responsive.
- 9.1.4 Payment for this Contract shall be based on the Bill of Quantities and the payment will be made in accordance with the rates tendered in the Schedule of Quantities.

The absence of stated quantities in the Bill of Quantities is no guarantee that none will be required. Reasonable prices should therefore be inserted for every item as these prices may be considered in adjudication of tenders.

The short descriptions of the items in the Schedule of Quantities are for identification purposes only.

Items classified as “provisional worklots” in the Bill of Quantities indicate that there is no certainty about the amount of work, which will be required. In this Contract the provisional items, where applicable, are for the treatment of areas, which are not necessarily treated annually.’ These areas will be measured per provisional worklot as defined in clause 11.3 and stated in the Schedule of Quantities. The standard of control for individual worklots shall apply.

9.2 PAYMENT

- 9.2.1 Payment will be based on the numbers of worklots treated as instructed by the Supervisor and to which the Supplier successfully applied the vegetation control measures and has achieved the standard of control defined in clause 15
- 9.2.2 No payment will be made for rejected worklots where control achieved does not meet the standards of control specified.
- 9.2.3 Measurement and payment for the work completed will be made in [3] stages.
- 9.2.4 After completion of the initial spraying of the entire Agreement area the Supervisor or his deputy and the Supplier will measure the work performed (number of worklots sprayed). The Supplier will thereafter receive payment at [50%] of the rates tendered for all of the completed work.
- 9.2.5 A second measurement and evaluation will be made concurrent with the first official inspection conducted in accordance with clause 9.5.4. The Supplier will thereafter receive payment at [25%] of the rates tendered for all worklots where control as specified has been achieved or clear signs are evident that control is in the process of being achieved.
- 9.2.6 A third measurement and evaluation will be made concurrent with the second official inspection conducted in accordance with clause 9.5.5. The Supplier will thereafter receive payment at [25%] of the rates tendered for all worklots where control has been achieved.

10. ENVIRONMENTAL REQUIREMENTS

- 10.1 The Supplier's procedures for the procurement, storage, handling, transportation, application and general use of herbicide shall comply with all applicable legislation, Codes of Practice and Local, Regional or Provincial Authorities, including but not restricted to:
- a) The Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act 36 of 1947) as amended.
 - b) The Hazardous Substance Act (Act 15 of 1973) as amended.
 - c) The Water Act (Act 54 of 1956) and the Water Amendment Act (Act 96 of 1984) (where applicable).
 - d) The National Environmental Management Act (Act 107 of 1998).
 - e) The National Environmental Management Biodiversity act (Act 10 of 2004).
 - f) SABS Code of Practice No. 0206-1985 "Safety procedures for the disposal of surplus pesticide and associated toxic waste".
 - g) Conservation of Agricultural resources Act (Act 43 of 1983) as amended.
 - h) Common law of nuisance.
 - i) Mountain Catchment Area Act (Act 63 of 1970).
 - j) The National Veld and Forest Fire Act (Act 101 of 1989)
 - k) National Forest Act, act no. 84 of 1998.
 - l) National Environmental Management: Waste Act, Act no. 59 of 2008.
- 10.2 The Supplier's authorised representative on site shall be a **registered Pest Control Operator**, specialising in the field of **industrial weed control** and registered in terms of the Farm Feeds Agricultural and Stock Remedies Act, Act 36 of 1947 as amended. A registered Pest Control Operator shall be in direct control of work taking place on site.

For the duration of this agreement there must be a team permanently based in Cape Town North, Cape Town South and Worcester respectively. The Supplier must ensure that there is a registered Pest Control Operator on each site.

- 10.3 Certified copies of valid Pest Control Operators registration certificates of the supervisory staff that **are accountable for the works in this tender**. The name of the Pest Control Operator must be linked in the staffing structure to a specific team responsible for spraying.
- 10.4 A comprehensive Environmental Management plan including but not restricted to proof of reasonable measures to minimise impacts on the environment.

10.5 DAMAGE TO FAUNA AND FLORA

- 10.5.1 The Supplier shall ensure that his/her employees at all times exercise care and consideration for the fauna and flora within and adjacent to the area to be sprayed.
- 10.5.2 The Supplier shall not apply any herbicide of an explosive, inflammable, highly volatile or corrosive nature, which may damage crops vegetation or property or be hazardous to humans or animals. The Supplier shall assume full responsibility for the efficiency and safety of whatever herbicide are used.
- 10.5.3 Dumping or polluting of any kind will not be permitted. This stipulation is also applicable to the washing out of tanks and equipment containing harmful herbicide and pollutants.

The Supplier shall institute and maintain procedures for the safe disposal of all herbicide and residual materials originating from the execution of the works.

Containers and residual material shall not be disposed of on TRIM property or as part of TRIM refuse.

- 10.5.4 The Supplier shall take particular note of environmentally sensitive areas and shall plan and execute his/her work with the utmost care and responsibility.

11 DEFINITIONS

- 11.1 **Project Manager's Deputy.** Any person appointed by the Employer to deputise for him / her in supervising and carrying out the Contract.

11.2 CONTROL

- 11.2.1 Control is achieved when all existing or potential growth of vegetation is maintained at 300mm for the duration of the contract period.

- The constituent parts of all plants occurring within the area of treatment or adjacent to the area and which may impede a clear line of sight cease to exceed 300mm in height.
- Erosion does not occur as a result of the management, by whatever means, of vegetation,
- the development of new growth of plants from dormant seeds is effectively counteracted or suppressed, for at least the growing season of the year in question; and

- there are no dead or dry remains of any vegetation within the treated area (work lot), which may constitute a hazard, danger, or hindrance to TRIM personnel, equipment trucks or operations or to motorist crossing a level crossing.
- Train drivers and approaching vehicle drivers have a clear line of sight at level crossings of approaching rail traffic or vehicular traffic

11.2.2 Control constitutes a process or situation where the destruction of vegetation on treated areas occurs on an **on-going basis** and not only at the time of measurement and payment inspections.

11.3 WORKLOTS

11.3.1 A WORK LOT is a subdivision of any area on which the Contractor shall control vegetation.

- Areas where vegetation control is required at level crossing may be irregular in shape and may not necessarily be level ground,
- every quadrant per level crossing will be deemed to be a work lot, therefore a level crossing will consist of four work lots,
- each level crossing will be approximately 7540m² (1885m² per work lot) in size,

11.3.2 A provisional work lot is any area or combination of areas totalling a maximum of 1885m² in the case of level crossings, which is not necessarily intended to be controlled annually.

11.4 GROWING SEASON

11.4.1 The growing season starts with the rainy season which is that time of the year when most of the specified area's average rainfall occurs. In winter rainfall areas the months of June to July of each year applies and for summer rainfall areas the months of September to November of each year applies.

11.5 Formation is the finished earthworks surface upon which the track is laid.

11.6 Ballast means that part normally consisting of crushed stone, gravel, ash or muck, (the material placed on the formation to support the track superstructure).

11.7 Listed invasive plants means any invasive plant species listed in terms of section 70(1) of the National Environmental Management; Biodiversity act, Act 10 of 2004, as well as declared weeds and invader plants proclaimed under the Conservation of Agricultural Resources Act, Act No. 43 of 1983, including amendments (GN Regulation 1048 of 25/05/1984 amended by GN Regulation 280 of 30/03/2001) thereto.

11.8 Spraying means the even and uniform application of herbicide at the rate specified and applies to liquid, granular or any other formulation.

12 METHOD OF VEGETATION CONTROL

12.1 The Supplier's methods and program shall provide rapid and effective control in all areas. Techniques, programming and herbicide employed shall therefore be directed at this aim. The

Supplier shall carry out immediate treatment of growth in all instances where rapid and effective control is not achieved during any period of the Contract.

- 12.2** Where an herbicide approach to vegetation control is adopted, hoeing (skoffel) and slashing of live vegetation will not be allowed as a method of achieving control. Herbicides which act as a scorching agent (e.g. with Paraquat or similar active ingredient) are incapable of meeting the definition of control and shall not be used. Scorching of canopy growth only, shall not constitute control of vegetation as defined. Slashing of dead material to below the height specified in 15.2 will be permitted.
- 12.3** Vegetation control in terms of the Contract will normally be required in respect of the Level Crossings. The type of herbicides and the methods of application to be employed are as specified in the applicable returnable documents (Clause 9.3) and are subject to the approval of, and monitoring by the Project Manager's Deputy.
- 12.4** If the Supplier uses different herbicides from those approved by the Project Manager's Deputy as contained in the tender document, approval shall first be obtained in writing for use of other herbicides.
- 12.5** Application methods shall, however, be entirely in accordance with the manufacturer's specifications and recommendations for safe and effective use of the herbicides or herbicide mixtures concerned.
- 12.6** Any deviation from the method of work submitted as per the applicable returnable document (Clause 9.3) by the Supplier shall be subject to the approval of the Project Manager's Deputy.
- 12.7** During the Contract the Project Manager reserves the right to advise the Supplier on the active ingredients utilised to minimize the risk for the weeds to develop resistance to certain herbicides.

13 STANDARDS OF WORKMANSHIP FOR INDIVIDUAL WORKLOTS

- 13.1** Standard of vegetation control for individual work lots.
- 13.1.1** Vegetation control shall be such that there is no dry or dead remains of vegetation or active growing or dormant vegetation within a level crossing (including creepers) exceeding 300mm in height, or vegetation occurring in the work lot, that constitutes a hazard, hindrance or danger to TRIM operations or user/s of level crossings.

This may include overhanging canopy growth of plants: -

- (i) with rootstock established entirely outside the work lot.
- (ii) with rootstock established on the boundary of the work lot, despite:
 - control that was achieved over the remainder of the work lot.
 - that a clear spray line is visible, showing that control was effectively applied over the entire surface of the work lot.
 - the Contractor took the presence of such growth into account and that the control method use was adjusted accordingly.
 - The boundary concerned is not the boundary of an adjoining work lot.

This exception does not apply in the case of creeping grasses (e.g. *Cynodon*) with nodal rooting within the worklot even though such growth may originate from a plant outside the worklot.

- 13.1.2 In addition, there shall be no dry or dead remains of vegetation within the worklot greater than 300mm in height and of a density such that it constitutes a hazard, hindrance or danger to TRIM's operations, trucks or equipment in the area.

The evaluation to what density of dry or dead growth constitutes a hazard, hindrance or obstruction shall be made by the Project Manager's Deputy.

14 MANUAL REMOVAL OF VEGETATION

- 14.1 No felling or hoeing of vegetation will be allowed during the two months preceding final inspection. Herbicides may not be applied 2 weeks preceding final inspection for a season or a year's program. All lots where such hoeing and felling or herbicides application were done will be rejected.
- 14.2 For this Contract, the Supplier should timeously acquaint him/herself with the existing conditions of the sites and ensure that his/her tender prices, includes all work necessary to achieve the required control, e.g. mechanical control, slashing and removal of debris before or just after spraying. The intention to slash and remove should be cleared with the Project Manager's Deputy prior to work starting.

15 REMEDIAL WORK

- 15.1 The Supplier shall carry out remedial work to all worklots where control has not been achieved, prior to the official inspections taking place. Such remedial work shall include the removal of dry or dead growth with any dimensions in excess of 300mm and forming a nuisance or hazard to TRIM operations, from the treated worklots.
- 15.2 The Project Manager's Deputy may, at any time after the first measurement order the Supplier to carry out remedial action, to commence within 1 week after being so ordered. Prior to the commencement of this proposed remedial action an envisaged remedial work program must be submitted to the Project Manager's Deputy for his/her approval. Failing to do so the Project Manager's Deputy may arrange for such action to be carried out by others at the cost of the Supplier.
- 15.3 Hoeing (skoffel) will not be allowed on its own as a remedial action.
- 15.4 Fire may not be used as a method of vegetation control or as a method of remedial action.

16 OVERALL CONTROL

- 16.1 Material breach or penalty if does not spray entire contract area
- 16.2 The overall standard of control to be achieved by the Supplier over the Contract area, defined as "Overall Control" and expressed as a percentage, will be determined by application of the following formula;

$$\text{Overall Control} = \frac{(\text{Worklots treated} - \text{Worklots rejected})}{\text{Worklots treated}} \times 100$$

16.3 The standard of “Overall Control” (service level table) to be provided on each district by the Supplier shall be:

YEAR	1	2 and Consecutive years
Minimum % of the total work, which shall comply, with the standard of control for individual work-lots.	80	90

16.4 Failure by the Supplier to achieve the standard of “Overall Control” shall constitute a material breach of Contract by the Supplier, which will entitle the Employer to act in terms of the Standard Terms and Conditions of Contract for the provision of services to Transnet.

17 GENERAL SPECIFICATIONS

17.1 WORK SPECIFICATIONS

17.1.1 Standard Specifications.

The following standard Specifications will be applicable to this Contract:

SANS 1200A – General

SABS Code of Practices no 0206-1983”Safety procedures for the disposal of surplus pesticides and associated toxic waste.”

17.1.2 The following Transnet Generic Specifications will be applicable to this Contract:

- E4E (August 2006): Safety arrangements and procedural compliance with the Occupational Health and Safety Act, Act 85 of 1993 and regulations.
- E7/1 (July 1998); Specifications for works on, over, under or adjacent to railway lines and near high voltage equipment.

17.2 HEALTH AND SAFETY

17.2.1 The Supplier shall at all time comply with safety rules, regulations and legislation, as well as TRIM Safety Guidelines for Infrastructure (Latest Edition).

17.2.2 The Supplier shall at all times comply with the Basic Conditions of Employment Act as well as all other relevant labour legislation. The Supplier must conduct his own formal risk assessment to identify all risks. The Supplier is to clearly indicate in his tender submission the processes and procedures he intends implementing to mitigate the total of all these risks: e.g.

- Working with herbicides
- live OHTE
- Executing work on one line while a normal train service is running on adjacent line/s
- Sanitation and refuse disposal as a threat to the environment.

17.2.3 The Supplier shall be responsible to ensure the use of only technically competent

trained staff on all types of work. The Supplier will have to ensure that the Supplier's personnel operating his/her own locomotives, haulage equipment, road rail vehicles or any other track vehicles on TRIM lines undergo a TRIM Operating course and also receive a certificate of track section competency. This cost is to be borne by the Supplier.

- 17.2.4 The Supplier shall ensure that all workers are appropriately equipped and wearing Personal Protective Equipment (PPE) and that Safety Talks are conducted and noted in the Site Diary before the start of every shift.
- 17.2.5 The Supplier shall be responsible to ensure that site staff are always competently trained with regards to Electrical Awareness Training.
- 17.2.6 The Supplier shall be responsible to ensure that workers working on machines (high risk areas), operators, machine fitters, area Project Manager's Deputies and Contract 'supervisors' site staff are always competently trained with regards to PWC Electrical Educational Training.
- 17.2.7 The Supplier shall also be responsible to ensure that Contract managers in charge of sites are always competently trained with regards to COM Competency Electrical Training (to follow PWC Training).
- 17.2.8 The Supplier shall ensure that all his employees undergo medical surveillance where required by legislation.
- 17.2.9 Non-compliance with safety requirements will result in an immediate suspension of work without payment.
- 17.2.10 Where training is required by the Supplier, TRIM is committed to provide training, the Supplier shall qualify his tender as to what and how many staff, training will be required for. After award of the Contract, the Supplier shall then arrange with the appropriate TRIM representative, through the Project Manager's Deputy, for this training / testing.

The following training shall be arranged for the following Suppliers staff:

Course	Objective	Duration & trainer	Grade to attend
A) Awareness (Electrical)	To inform all Suppliers staff working near a machine and on the line on electrified sections of the dangerous situations of high voltage OHTE	Two hour on-the-job lecture and training. Accredited Electrical trainer / Depot's Electrical Supervisor	<ul style="list-style-type: none"> • All workers and staff working on the Contract

The electrical awareness training must be arranged for beforehand on-the-job.

The electrical educational and competency training may be arranged for at either a depot's lecture room's (TRIM property), or at a venue of the Suppliers choice (Suppliers cost).