



REQUEST FOR SERVICE (RFS)

CLEANING OF CULVERTS FOR KRUGERSDORP DEPOT

**TRANSNET FREIGHT RAIL
RAIL NETWORK
TECHNICAL SUPPORT DEPARTMENT
MILLSITE, KRUGERSDORP**

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TRANSNET 287.
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SPECIFICATION FOR THE CLEANING OF CULVERTS FOR KRUGERSDORP DEPOT

1. Scope of work

The works to be executed under this Contract consists of the following:

- Clearing and preparation of site for the actual work,
- No work is to be done on top of the culvert or pipe next to the railway line,
- The property adjacent to the Transnet Freight Rail reserve may not be entered without prior permission from the Technical officer,
- Culverts or pipes to be cleaned in such a way as to permit the free flow of water through the culvert to its maximum capacity, Water must not be able to dam in the culvert or pipe.
- The soil removed from the culvert and ditch must not be dumped in heaps, but must be worked flat (tools needed but not limited to are; wheelbarrow, shovel, pick and TLB 4X4 if necessary)
- All chopped down vegetation must be removed from the cleaned area and packed in a suitable position next to the fence and tramped flat.
- The culverts or pipes are not all built to the same standard. The technical officer may give additional instructions owing to unique circumstances.
- Remove all vegetation found around or in the vicinity of the culvert
- The hand methods must be used for cleaning of all debris in culverts and pipes incl. cutting of vegetations at phases of inlet and outlet.
- The TLB will be required on the culverts and drainage channels that will be pointed out by the Technical Officer.
- Contractor to provide any necessary tools for cleaning.
- The cleaning of channels will include the removal of soil, rocks, and the trees.

2. Location of the site

- The sites are on the Krugersdorp Depot Railway Line Section from the Westrand of Gauteng to North West Province.
- Following are the Sites and their Workload
 1. Veertienstrome – Vryburg
 2. Krugersdorp – Mafikeng
 3. Randfontein – Potchefstroom
 4. Welverdiend – Lichtenburg
 5. Potchefstroom – Klerksdorp
 6. Klerksdorp – Veertienstrome
 7. Mafikeng – Ramatlabama
 8. Vryburg - Mafikeng

3. Duration of contract

- The duration of the contract is **2 Months** and Transnet Freight Rail reserves the right to cancel the contract if the standard of workmanship and accuracy as per the specification is not achieved.

4. Site meetings

- The contractor shall attend all site meetings convened by the Technical Officer. Such meetings shall be for the purpose of discussing progress, delays, materials, specification etc.

5. Safety

- Transnet Freight Rail is the organisation that strictly complies with safety.
- For the purpose of this contract safety plan is required before the commencement of work.
- The safety file should be submitted to the Technical Officer a week before starting the work.
- Safety induction should be conducted before the commencement of the works.
- Safety induction does not give the supplier the right to start to work.
- Minimum Personal protective equipment required: **(Reflective vest, Safety boots, Dust mask)**
- A valid medical of fitness certificates of all the contractor's personnel working on site, operators, first aider and SHE rep are required for this contract. These documents are to form part of the safety file that will be submitted to the Technical Officer a week before starting work.

6. Responsibility of Transnet Freight Rail

- Arrangement with landowners and statutory authorities regarding access and other statutory requirements
- Arrange occupations if required.
- Inspect the works after being finished and for the claim purposes.

7. Responsibility of the Contractor

- The contractor will provide all labour and all plant required for the completion of the works.
- All arrangements regarding water and sanitation requirements for the duration of the contract are upon contractor to arrange.

- The Contractor must make his own arrangement for accommodation of his staff and provide security for his TLB and Transnet will not be liable to provide this service
- Only Security will be allowed on site after work at night from 17:00-08:00
- Where services are encountered below the surface during the course of the excavation, such should be communicated to the relevant Transnet Freight Rail representative or to the Project Manager. The contractor shall take all reasonable measures to ensure that careless damage to services and other property is avoided, failure of which the replacement or repair therefore will be to the contractor's account.
- Prior approval of the Project Manager to be sought before destroying or disturbing any part of the environment for stockpile, spoil or for any other purpose.
- For payment purposes, the onus shall lie with the contractor to ensure that all quantities are measured and agreed with the Project Manager or any such person that may be delegated by the Project Manager.
- The contractor must safeguard the surrounding, adhere to PPE (Personal Protective Equipment), to have first aid box kit on site at all time and supply the neat and tidy completed area.

8. Penalties

- A penalty of R 300 per day will apply for the late completion of the contract but exception will be considered for the rainy days. (Rain gauge should be on site all the time and rain gauge records should be submitted for claiming rainy days.

9. Payment Certificate

- Payment certificate will be compiled once and submitted monthly once the work has been inspected and signed off.
- The payment method will be a monthly payment.

10. Site Instruction Book and Site Diary

- The contractor shall always supply and have available on site a site diary, an A4/A5 size triplicate carbon book with detachable sheets for recording everything happening on site.
- The contractor must also have site instruction book to receive and record all instruction from the Technical officer and or Transnet personnel.
- The contractor shall request the person concerned to write the instruction in the site instruction book, to sign it and to record his official designation.
- The instruction shall be countersigned by the Contractor or his agent.
- The original sheet of the site book will be removed by the Transnet Technical Officer and carbon copies retained to the Contractor.

11. Defects Liability Period

- Defect's liability period will not apply on this contract.

12. Annexure

- The following documents will be given to the successful contractor before commencement of the work.
 1. Site access certificate,
 2. Indemnity form,
 3. General conditions of contract (minor works contracts).
 4. Working near the railway line specification (E7/1)
- All suppliers must sign the attendance register and site inspection form (E4.A Dec 2003) that Transnet freight rail personnel will provide on-site meeting before leaving the site.

13. Schedule of Quantities

Item	Description	Unit	Qty	Rate	total
1.1	Site establishment and de-establishment				
1.1.1	Veertienstrome – Vryburg	Sum	1		
1.1.2	Kruggersdorp – Mafikeng	Sum	1		
1.1.3	Randfontein – Potchefstroom	Sum	1		
1.1.4	Welverdiend – Lichtenburg	Sum	1		
1.1.5	Potchefstroom – Klerksdorp	Sum	1		
1.1.6	Klerksdorp – Veertienstrome	Sum	1		
1.1.7	Mafikeng – Ramatlabama	Sum	1		
1.1.8	Vryburg - Mafikeng	sum	1		
	Total carried to the summary				
2.1	Inlet and Outlet Cleaning of inlet and outlet phases by removal and disposing of soil, rocks and vegetation to allow free flow of water $\{(5m(L) \times 5m(W) \times 0.3m(D)) \times 2$ i.e., both side of culvert. Dimensions- 15m ³ x 120	m ³	1800		
2.2	Box Culverts and Pipes Removing, disposing of debris, all other foreign objects and cleaning inside the culverts / pipes so that the water can be able to flow freely on the culverts and pipes	No	120		
2.3	Earthworks Reinstate the channel between boundary fences, culverts and along railway track by means of TLB where unnecessary by hand	Hours	400		

Drawings showing the work expected.

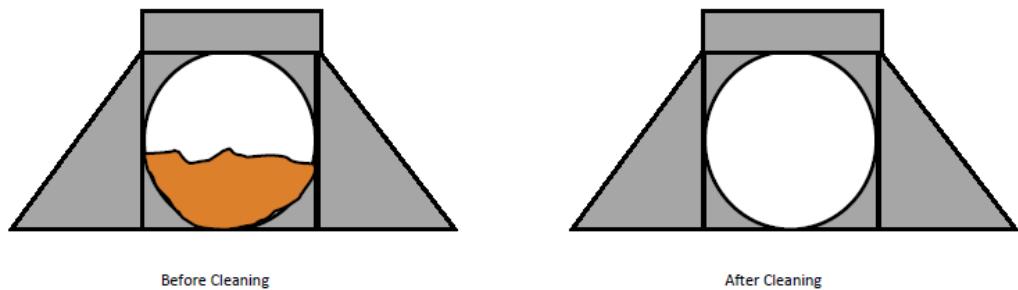


Figure 1: Pipe culverts

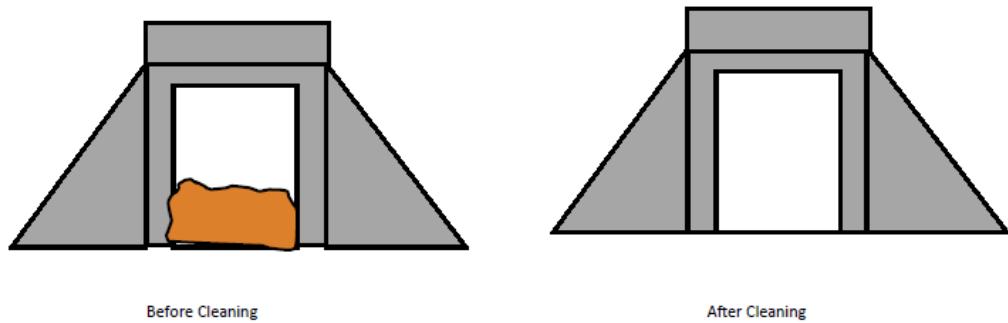


Figure 2: Box Culverts

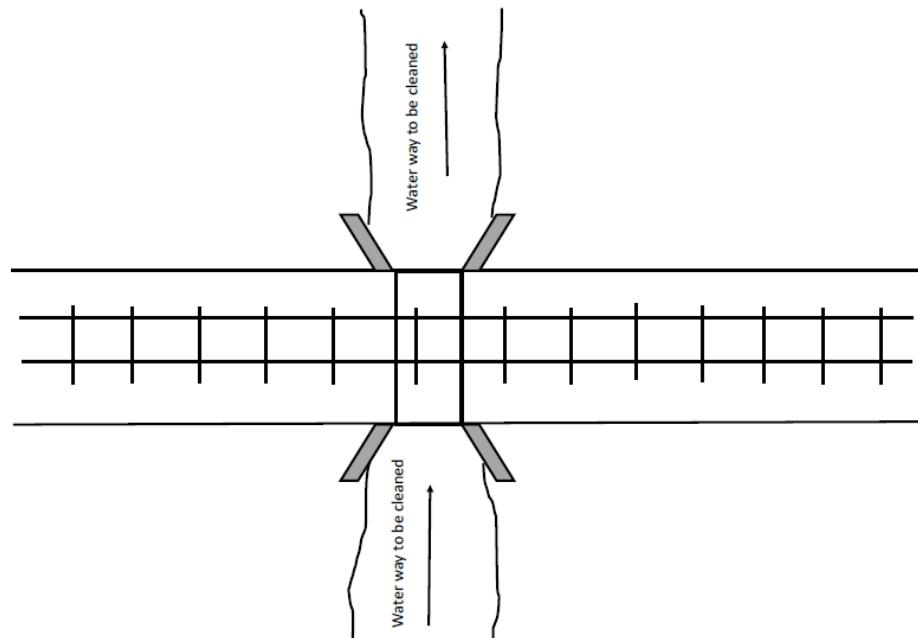


Figure 3: Plan view of waterway to be cleaned

LIST OF CUVERTS TO BE CLEANED FOR KGR DEPOT						
RANDFONTEIN - POTCHEFSTROOM						
KM Pos	Type of culvert	Cleaning Required	TLB	What needs to be done	Comments	
23/15	Pipe	Yes	No	Channel to be cleaned and aligned by hand		
23/16	Pipe	Yes	No	Channel to be cleaned and aligned by hand		
24/7	Box	Yes	No	Channel to be cleaned and aligned by hand		
27/9	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side		
33/1	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side		
34/8	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side		
68/02	Box	Yes	No	Channel to be cleaned and aligned by hand	There is no access for a TLB to both sides the channels	
68/11	Box	Yes	No	Channel to be cleaned and aligned by hand	There is no access for a TLB to both sides the channels	
71/07	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
73/15	Box	Yes	Yes	Channel to be cleaned and aligned		
88/11	Box	Yes	No	Channel to be cleaned and aligned by hand	There is no access for a TLB to the one side channel	
91/14	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
97/09	Box	Yes	No	Channel to be cleaned and aligned by hand	There is no access for a TLB to the one side channel	
104/06	Box	Yes	No	Channel to be cleaned and aligned by hand	There is no access for a TLB to both sides of channels	
105/05	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
109/11	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
POTCHEFSTROOM - KLERKSDORP						
110/06	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
123/01	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
125/01	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
128/13	Box	Yes	No	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
139/11	pipe	Yes	Yes	Waterway is 50% fully blocked Channels cleaned and aligned with the culvert	To be cleaned by hand inside and TLB both channels	
141/11	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
142/14	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side	There is no access for a TLB to the one side channel	
KLERKSDORP - BOSKUIL						
01/08	Box	Yes	No	Cleaning of water way, Inlet & Outlet		
06/14	Box	Yes	No	Cleaning of water way, Inlet & Outlet		
08/10	Pipe	Yes	No	Inlet & Outlet cleaning		
08/12	Box	Yes	Yes	Inlet & Outlet, removal of trees & water channel cleaning		
09/05	Box	Yes	No	Inlet & Outlet cleaning		
13/07	Pipe	Yes	Yes	Inlet & Outlet water channel trimming		
13/08	Pipe	Yes	No	Inlet & Outlet cleaning		
22/06	Pipe	Yes	Yes	Inlet & Outlet water channel trimming		
30/08	Pipe	Yes	No	Inlet & Outlet cleaning		
31/14	Box	Yes	Yes	Inlet & Outlet, removal of trees		
59/07	Pipe	Yes	No	Cleaning of water way, Inlet & Outlet		
84/05	Pipe	Yes	No	Inlet & Outlet cleaning		
87/13	Pipe	Yes	No	Inlet & Outlet cleaning		
94/15	Pipe	Yes	No	Partially blocked		

BOSKUIL - VEERTIENSTROME				
109/12	box	Yes	Yes	clean inlet and outlet
110/12	pipe	Yes	yes	open the channel, clean inlet and outlet
111/04	Pipe	Yes	no	clean inlet and outlet
115/09	Box	Yes	Yes	clean inlet and outlet
125/0	box	yes	yes	clean inlet and outlet
127/04	box	yes	yes	clean inlet and outlet
127/13	box	yes	no	clean inlet and outlet, open the channel
143/11	pipe	yes	no	clean inlet and outlet
145/07	box	yes	yes	clean inlet and outlet and channel to be aligned
144/02	box	yes	yes	clean inlet and outlet and channel to be aligned
148/11	pipe	yes	no	clean inlet and outlet
181/07	box	yes	yes	clean inlet and outlet
181/13		yes	yes	clean inlet and outlet
181/01	pipe	yes	no	clean inlet and outlet, unblock the culvert
VEERTIENSTROME - VRYBURG				
88/04	Box	Yes	No	Channel to be cleaned and aligned
126/02	Box	Yes	Yes	Channel to be cleaned and aligned
VRYBURG - MAFIKENG				
184/07	Box	Yes	No	Tba
192/04	Box	Yes	No	Tba
193/09	Box	Yes	No	Tba
195/07	Box	Yes	No	Channel to be cleaned and aligned
198/06	Box	Yes	No	Channel to be cleaned and aligned
198/16	Box	Yes	No	Channel to be cleaned and aligned
204/14	Box	Yes	Yes	Channel to be cleaned and aligned
208/02	Box	Yes	Yes	Channel to be cleaned and aligned
213/02	Box	Yes	Yes	Channel to be cleaned and aligned
219/16	Box	Yes	Yes	Channel to be cleaned and aligned
220/12	Pipe	Yes	Yes	Channel to be cleaned and aligned & inside
222/17	Box	Yes	No	Trees and bushes to be cleared
226/08	Box	Yes	Yes	channel to be cleaned and aligned
231/11	Box	Yes	No	Tba
240/08	Pipe	Yes	No	Tba
254/15	Box	Yes	Yes	Trees and bushes to be cleared
258/4	Box	Yes	No	Channel to be cleaned and aligned
262/15	Box	Yes	Yes	Channel to be cleaned and aligned
266/11	Box	Yes	Yes	Channel to be cleaned and aligned
267/18	Box	Yes	No	Channel to be cleaned and aligned
268/19	Box	Yes	Yes	
269/17	Box	Yes	Yes	
272/16	Pipe	Yes	No	Trees and bushes to be cleared
KRUGERSDORP - MAFIKENG				
29/8	Pipe	Yes	No	Channel to be cleaned and aligned by hand
30/7	Box	Yes	No	Channel to be cleaned and aligned by hand
30/8	Box	Yes	No	Channel to be cleaned and aligned by hand
34/0	Pipe	Yes	No	Channel to be cleaned and aligned by hand
54/4	Box	Yes	No	Channel to be cleaned and aligned by hand
67/11	Pipe	Yes	No	Channel to be cleaned and aligned by hand
97/4	Box	Yes	No	Channel to be cleaned and aligned by hand
101/12	Pipe	Yes	No	Channel to be cleaned and aligned by hand
103/12	Box	Yes	No	Channel to be cleaned and aligned by hand
116/18	Pipe	Yes	No	Channel to be cleaned and aligned by hand
119/12	Box	Yes	No	Channel to be cleaned and aligned by hand
120/5	Pipe	Yes	No	Channel to be cleaned and aligned by hand
122/2	Box	Yes	No	Channel to be cleaned and aligned by hand
128/3	Pipe	Yes	No	Channel to be cleaned and aligned by hand
201/11	Pipe	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
202/3	Pipe	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
202/5	Pipe	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
203/7	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
207/2	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
208/1	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
210/14	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
211/19	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
212/4	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
217/2	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
217/3	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
217/8	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
218/15	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
219/0	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
220/13	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
228/15	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
266/17	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
268/11	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
269/10	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
269/14	Box	Yes	No	Cleaning inlet and outlet, bushes and channel to be aligned
WELVERDIEND - COLIGNY				
24/16	Box	Yes	Yes	Channel to be cleaned and aligned
59/03	Box	Yes	No	Channel to be cleaned and aligned
62/08	Box	Yes	No	Channel to be cleaned and aligned
70/10	Box	Yes	Yes	Channel to be cleaned and aligned
70/11	Box	Yes	Yes	Channel to be cleaned and aligned
78/09	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side
84/12	Box	Yes	No	Waterway needs cleaning and channel aligned
94/04	Box	Yes	Yes	Waterway needs cleaning and channel aligned
95/11	Box	Yes	Yes	Waterway needs cleaning and channel aligned
COLIGNY - LICHTENBURG				
0/12	Box	Yes	Yes	Cleaning, bushes and channel to be alinged
1/03	Box	Yes	Yes	Channel to be cleaned and aligned
11/04	Box	Yes	Yes	Waterway is 50% fully blocked Channel cleaned and aligned with the culvert
16/02	Box	Yes	Yes	Channel to be cleaned and aligned by TLB on one side and hand on the other side
18/18	Box	Yes	Yes	Cleaning, bushes and channel to be alinged
21/10	Box	Yes	Yes	Cleaning, bushes and channel to be alinged