

## **The technical evaluation of stage one (MV/LV cable networks)**

### **Technical Evaluation criteria for contractors constructing MV and or LV cable networks**

The evaluation criteria described in the following sections should be used to evaluate any service provider that wishes to provide the service for: construction, refurbishment, dismantling, joining and termination of MV and or LV cable networks. The technical evaluation process will consist of two stages i.e. 1: document review stage and 2: verification stage. If the tenderer have passed all requirements specified in this document, then at contract award stage evidence will have to be submitted for PDE Scot Website access, MV/LV OU specific authorizations, calibration certificates for tools and instruments, proof of registration as Electrical Contractor (DOL).

#### **Document Review Requirements**

During the Document review stage, the tenderer will be required to submit supporting documents illustrating competence to perform the required scope of work. The requirements are grouped into 5 categories i.e. general requirements, training requirements, tools & equipment, vehicles as well as related experience.

#### **General requirements**

The general requirements to be met by tender submissions are specified in Table 1 and Table 2 below. Certified copies of the required documentation should be included in the submission. Point allocations and the minimum threshold are specified in the table.

**Table 1: General Requirements for LV cable networks**

General Requirements				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	Department Of Labour Registration for your Company as an Electrical Contractor (ECB).	1		Valid Department of Labour ECB Registration Certificate for your Company = 1 point.
2	Eskom Distribution Technology (PDE) website access.	1		Valid letter from Eskom confirming access to Website. Proof of Fee payment =1.
3	Do you have contracted skills available to perform jointing and termination of LV cables?	1		Submit proof of subcontracting agreement or proof of approved joiner.
4	Do you have contracted skills available to perform directional moulding?	1		Submit proof of subcontracting agreement
5	Did you submit a signed declaration letter to confirm that all information submitted for this tender is accurate and just?	1		1 Point to be awarded for a declaration signed by company owner.
	Minimum score	4		To meet the minimum requirements for this sections, a tender submission have to obtain the minimum score of 4 points.

**Table 2: General Requirements for MV Cable networks**

General Requirements				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	Department Of Labour Registration for your Company as an Electrical Contractor (ECB).	1		Valid Department of Labour ECB Registration Certificate for your Company = 1 point.
2	Eskom Distribution Technology (PDE) website access.	1		Valid letter from Eskom confirming access to Website. Proof of Fee payment =1.
3	Do you have contracted skills available to perform jointing and termination of MV cables?	1		Submit proof of subcontracting agreement or proof of approved joiner.
4	Do you have contracted skills available to perform directional moulding?	1		Submit proof of subcontracting agreement
5	Did you submit a signed declaration letter to confirm that all information submitted for this tender is accurate and just?	1		1 Point to be awarded for a declaration signed by company owner.
	Minimum score	4		To meet the minimum requirements for this sections, a tender submission have to obtain the minimum score of 4 points.

## Training requirements

All Training requirements with point allocations and minimum score required are specified in Table 3 and Table 4 below. Certified copies of training certificates from accredited training providers must be included in the tender submission.

**Table 3: Training requirements for LV Cable networks**

Training requirements				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	LV cable network construction module ELW12	3 (10max)		One point will be awarded for each valid training certificate for ELW12.
2	ORLVS Course Certificate	1(4max)		Valid ORLVS Certificate (At least one set of valid certificates per team) – Applicable for working on LV networks.

3	Crane Operator	1(4max)		Valid crane operator Certificate. (At least one certificate per vehicle mounted crane).
4	Construction regulations training	1(4max)		1 point shall be awarded for each Course certificate submitted as proof.
	Minimum score	5		To meet the minimum requirements for this sections, a tender submission have to obtain the minimum score of 5 points.

**Table 4: Training requirements for MV Cable networks**

Training requirements				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	LV cable network construction module ELW12	3(10max)		One point will be awarded for each valid training certificate for ELW12.
2	ORHVS HVO 03a, 3b and 3c OR HVO 04 Course Certificate	1(4max)		Valid ORHVS (HV03a,b and c or HV04) Certificate (At least one set of valid certificates per team) – Applicable for working on MV networks.
3	Crane Operator	1(4max)		Valid crane operator Certificate. (At least one certificate per vehicle mounted crane).
4	Construction regulations training	1(4max)		1 point shall be awarded for each Course certificate submitted as proof.
	Minimum score	6		To meet the minimum requirements for this sections, a tender submission have to obtain the minimum score of 5 points.

### Tool and equipment requirements

Tools and equipment is essential for execution of work. Tools and equipment can either be hired or owned, but this should be indicated in Table 5 below. The required tools and equipment, scoring system and minimum scoring required are specified in this table.

**Table 5: Tool and equipment requirements**

Tools & equipment:				
No.	Description of Item	Cable Work		Source of Evidence
		Minimum	Actual	Equipment can either be owned or hired
1	Barricading	1 (4max)		Round bar beam, fencing or orange netting with steel or wooden pole struts for trenches. The applicable score (1) will be awarded for each set of barricading equipment that can cover 300m of trenching.
2	Shoring equipment	1 (4max)		Timber, steel supports, struts as per construction regulations. The applicable score (1) will be awarded for each set of shoring equipment that can cover 300m of trenching.
3	Road crossing steel plates (with hoisting equipment) – Heavy vehicular traffic.	1 (4max)		One point will be awarded for each set of plates that can cover a road of 8m.
4	Trench crossing walkways for pedestrians / light vehicular traffic (driveways etc.)	1(4max)		One point will be awarded for each set of plates that can cover a driveway of 4m.
5	Road traffic signage	2 x Each to obtain full points(2)		Road works/construction ahead, lane closed/road narrowing, detour, no through road, road closed, chevrons, stops signs, flag men, Stop/go.

6	Hand excavation tools.	2 x picks 2x Spades to obtain full point (2)		Confirmation of availability 2 x picks and 2 x beaded spades.
7	Mechanical excavator (machine)	1 (2max)		Confirmation of availability.
8	Jackhammers	1 (2max)		Confirmation of availability.
9	Tar (asphalt) / concrete road surface cutter (angle grinder).	1 (2max)		Confirmation of availability.
10	Hand compacting tools (stampers)	2 (4max)		Confirmation of availability.
11	Mechanical compacting machinery ('rammer'/'wacker'/'Roller').	1 (2max)		Confirmation of availability.
12	Soil compaction testing equipment (DCPs)	1 (2max)		Confirmation of availability of Dynamic Cone penetrometer.
13	A.C. (230V) generators (for lighting, bentonite mixing equipment, portable test equipment, etc.).	1 (2max)		Confirmation of availability.
14	Submersible water pump	1 (2max)		Confirmation of availability.
15	Equipment for punching labels onto Al/Cu plates. Stencils.	1 (2max)		Confirmation of availability.
16	Cast in situ concrete formwork.	1 (2max)		Confirmation of availability.
17	Cable trailers (with hydraulic jacks etc.)	1 (2max)		Confirmation of availability.

Tools & equipment:				
No.	Description of Item	Cable Work		Source of Evidence
		Minimum	Actual	Equipment can either be owned or hired
18	Cable winch, dynamometer (pulling strain), jack stands and steel rope.	1(2max)		Confirmation of availability.
19	Cable bond pulling and nose pulling (pulling eye / pulling socks) equipment.	2(4max)		Confirmation of availability.
20	Cable rollers and skids (sufficient for every 2m of cable installed). What is the length of cable that can be pulled at one time?	3(5max)		The applicable score (1) will be awarded for every 100 meters cover i.e. 50 rollers.
21	Cable corner/guide rollers (sufficient for at least 5 corners).	2(5max)		1 point will be awarded per corner roller.
22	Equipment for cutting cables.	1(2max)		Confirmation of availability.
23	Gas flame/torch equipment (e.g. for heat shrink application).	1(4max)		Confirmation of availability.
24	Cylindrical brushes / close fitting mandrels (110mm and 160mm) to clean pipes before pulling cable	1(2max)		Confirmation of availability.
	<b>Total</b>	<b>40</b>		

## Vehicle requirements

The requirements related to vehicles are specified in Table 6 below. Vehicles can either be owned or it may be hired from a Bona Fide Vehicle Hire Company.

**Table 6: Vehicle requirements**

Vehicles :				
No.	Item Description	Cable works		Source of Evidence
		Score	Actual	
1	Bakkies (LDV/Double Cab).	1		Registration Certificate in the company name or name of company owner(s); one vehicle per team
2	Truck with crane, footplate and crew cab.	1		Registration Certificate in the company name, or in the name of the company owner(s) or Proof that this can be hired from Bona Fide Vehicle Hire Companies.
3	Other vehicle for transporting staff.	1		Registration Certificate in the company name or in the name of the company owner(s) or Proof that this can be hired from Bona Fide Vehicle Hire Companies.
<b>Total</b>		<b>3</b>		To meet the minimum requirements for this sections, a tender submission have to obtain the full score of 3 points.

## Requirements related to experience

Due to the risk involved in the construction of cable networks, it is important for tenderers to be able to demonstrate experience in work required. This experience can either be from individuals in the company or previous products that the company completed. The specific experience required, points allocation and minimum score required are specified in Table 7 and Table 8 below.

**Table 7: Related experience required for LV Cable networks**

Related experience				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	Number of years of experience of individual members in constructing LV underground networks.	3		1 Point will be awarded for every 3 years of collective experience on LV cable network projects per team member.
2	List of previous projects involving trenching for LV cables (Team).	3		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 point will be allocated per project.
3	List of previous projects involving laying of LV cables (Team).	3		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 point will be allocated per project
4	List of previous projects involving installation of LV service distribution kiosk, LV jointing and terminations(Team) (Team)	3		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 point will be allocated per project
<b>Minimum score</b>		<b>12</b>		To meet the minimum requirements for this sections, a tender submission have to obtain the minimum score of 12 points.

**Table 8: Related experience required for LV Cable networks**

Related experience				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	Number of years of experience of individual members in constructing MV underground networks.	3		1 Point will be awarded for every 5 years of collective experience on MV cable network projects per team member.
2	List of previous projects involving trenching for MV cables (Team).	3		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 point will be allocated per project.
3	List of previous projects involving laying of MV cables (Team).	3		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 point will be allocated per project
4	List of previous projects involving installation of Minisubs and RMUs.	3		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 point will be allocated per project
<b>Minimum score</b>		<b>12</b>		To meet the minimum requirements for this sections, a tender submission have to obtain the minimum score of 12 points.

### Site verification stage

Only tenderers that have met the minimum criteria specified in the document review stage shall be subjected to an on-site verification. The site verification exercise shall be performed at contract award stage. During the site verification, all tools and equipment, inspection and calibration records shall be inspected as specified in 13TB032 – “Standard tool requirement for MV cable system construction.” Work shall only be issued to those contractors that have successfully completed the site verification stage.

## Technical evaluation criteria for joining and termination of MV cables

The evaluation criteria described in the following sections should be used to evaluate any service provider that wishes to perform jointing and termination of MV cables. The technical evaluation process will consist of two stages i.e. Document review stage and Verification stage. If the tenderer have passed all requirements specified in Document review stage, then at contract award stage evidence will be required for PDE Scot Website access, MV/LV OU Specific Authorizations, Calibration certificates for tools and instruments, Letter of Registration as Electrical Contractor (DOL) during the Verification stage.

### Document review requirements (Jointer)

During the Document review stage, the tenderer will be required to submit supporting documents illustrating competence to perform the required scope of work. The requirements are grouped into four categories i.e. general requirements, training requirements, tools & equipment, as well as related experience.

#### General requirements (Jointer)

The general requirements to be met by tender submissions are specified in Table 6 below. Certified copies of the required documentation should be included in the submission. Point allocations and the minimum threshold are specified in the table.

**Table 9: General Requirements (Jointer)**

General Requirements				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	Department Of Labour Registration for your Company as an Electrical Contractor (ECB)	1		Valid Department of Labour ECB Registration Certificate for your Company = 1 point
2	Eskom Distribution Technology website access	1		Valid letter from Eskom confirming access to Website. Proof of Fee payment =1
3	Did you submit a signed declaration letter to confirm that all information submitted for this tender is accurate and just?	1		The applicable score (1) to be awarded for a declaration signed by company owner.
4	Does the company have a copy of SANS 10198 Part 10&11 and SANS 10142 part 2 available	1		The applicable score (1) will be awarded for proof submitted that these documents are readily available i.e. company has access to these documents.
5	Bakkies (LDV/Double Cab)	1		Registration Certificate in the company name or name of company owner(s); one vehicle per team.
Minimum score		5		To meet the minimum requirements for this sections, a tender submission have to obtain a full score of 5 points.

#### Training requirements (Jointer)

All Training requirements with point allocations and minimum score required are specified in Table 7 below. Certified copies of training certificates from accredited training providers must be included in the tender submission.

**Table 10: Training requirements (Jointer)**

Training requirements				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	The Jointing & Termination of Medium Voltage Cables to the requirements of SANS 10198 (part 10 &11) as per SAQA US ID 259187	1		The applicable score (1) will be awarded for each valid training certificate obtained from an EWSETA accredited training provider.

2	ORHVS HVO 03a OR HVO 04 Course Certificate	1	Valid ORHVS (HV03a, or HV04) Certificate (At least one valid certificate per team) – Applicable for jointers to perform work under a permit.
<b>Minimum score</b>		<b>2</b>	To meet the minimum requirements for this sections, a tender submission have to obtain the score of 2 points.

### Tool and equipment requirements (Jointer)

Tools and equipment is essential for execution of work. Tools and equipment can either be hired or owned, but this should be indicated in Table 8 below. The required tools and equipment, scoring system and minimum scoring required are specified in this table.

**Table 11 : Tool and equipment requirements (Jointer)**

Tools & equipment:				
No.	Description of Item	Cable Work		Source of Evidence
		Minimum	Actual	Equipment can either be owned or hired
1	Flash blankets for parallel power cables in joint bay	1		Flash blankets to cover joint bay of about 2m.
2	Equipment for punching labels onto Al/Cu plates. Stencils	1		Confirmation of availability.
3	Equipment for cutting cables	1		Confirmation of availability.
4	Measuring tape (Metric)	1		Confirmation of availability.
5	Hacksaw (Junior)	1		Confirmation of availability.
6	Torque shear holding tool	1		Confirmation of availability.
7	A.C. (230V) generators (for lighting, bentonite mixing equipment, portable test equipment, etc.)	1		Confirmation of availability.
8	Submersible water pump	1		Confirmation of availability.
9	Moisture test kit	1		Confirmation of availability.
10	Core Pushers	1		Confirmation of availability.
11	Semicon Stripper Knife	1		Confirmation of availability.
12	Twine Binder	1		Confirmation of availability.
13	Safety Barricade Net	1		Confirmation of availability.
14	9KG Handi-gas Bottles	1		Confirmation of availability.
15	Handi-gas Burners	1		Confirmation of availability.
16	Handi-gas Torch	1		Confirmation of availability.
17	Toolbox	1		Confirmation of availability.
18	Head Lamp	1		Confirmation of availability.
19	Stanley Knife	1		Confirmation of availability.
20	3M x 3M Gazebo	1		Confirmation of availability.
<b>Minimum score</b>		<b>14</b>		To meet the minimum requirements for this sections, a tender submission have to obtain the minimum score of 14 points.



## Requirements related to experience (Jointer)

Due to the risk involved in the construction of cable networks, it is important for tenderers to be able to demonstrate experience in work required. This experience can either be from individuals in the company or previous products that the company completed. The specific experience required, points allocation and minimum score required are specified in Table 9 below.

**Table 12: Related experience required (Jointer)**

Related experience				
No.	Item Description	Minimum	Actual	Scoring of Evidence submitted
1	Number of years of experience in MV XLPE jointing	2		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 Point will be awarded for every year of experience in MV XLPE jointing.
2	Number of years of experience in MV PILC jointing	1		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 Point will be awarded for every year of experience in MV PILC jointing.
3	Number of years of experience in MV Outdoor cable termination	2		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 Point will be allocated for every year of experience in MV Outdoor cable termination
4	Number of years of experience in MV Indoor cable termination	2		Give a list of projects including a description of the scope, Name and contact number for the Project manager. 1 point will be allocated for every year of experience in MV Indoor cable termination
	Minimum score	6		To meet the minimum requirements for this sections, a tender submission have to obtain the minimum score of 6 points.

## Site verification stage (Jointer)

Only tenderers that have met the minimum criteria specified in the Document review stage shall be subjected to an on-site verification. The site verification exercise shall be performed at contract award stage. During the site verification, all tools and equipment, inspection and calibration records shall be verified. Work shall only be issued to those contractors that have successfully completed the site verification stage.

# The technical evaluation of stage two (The installation and splicing/testing of fiber optic duct cables)

**Note: Full compliance is mandatory to Annexures (A/B schedules for NRS-088).**

TENDER TECHNICAL EVALUATION																																																																																																																																																																																																																																																																											
Contractor Name: <span style="border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span>						Rev3																																																																																																																																																																																																																																																																					
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<p>✓ Contractors will be scored accordingly under item-1 (criteria 1.1 to 1.13) for the Technical tools he possesses. Full points awarded for Contractor's proof of compliance sent with Tender Return (e.g Asset Register with serial number where applicable etc). Half points awarded for hiring of tools, 0 points awarded for none compliance.</p> <p>✓ In item-2, criteria 2.1 &amp; 2.2 : Full points awarded for providing Organogram, Qualifications and CV's of staff that have related experience on FoC project, 0 points awarded for none compliance.</p> <p>✓ In item-3, criteria 3.1 : 5 points awarded per project submitted (Project name, value and signed off completion certificate), 0 points awarded for none compliance.</p> <p>✓ Should the Contractor produce proof lesser than the criteria stated, then <b>half the points</b> will be awarded i.e. <b>Partially</b> Compliant. if the Contractor do not have any proof as per criteria listed, then <b>zero points</b> will be awarded i.e. <b>Not</b> Compliant.</p> <p>✓ Populate the relevant score for Contractor compliance in the below stated column headings i.e. Fully Comply, Partially Comply or Not Comply</p>																																																																																																																																																																																																																																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">NOTE: Scored as per Contractor's proof of compliance sent with Tender Return (e.g Asset Register with serial number where applicable etc)</th> <th>Score out of:</th> <th colspan="3" style="text-align: center;">please score below where relevant</th> <th></th> <th>POINTS in TOTAL</th> <th>TOTAL POINTS SCORED</th> </tr> <tr> <th></th> <th></th> <th></th> <th>FULLY COMPLY</th> <th>PARTIALLY COMPLY</th> <th>NOT COMPLY</th> <th>SCORE</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><b>item-1</b></td> <td><b>Technical Tools, equipment and other technical compliance</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>1.1</td> <td>Method for testing of HPDE Pipe installation (State Method)</td> <td style="text-align: center;">6</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.2</td> <td>Method for marking As-built drawing, and significant points e.g. Manholes</td> <td style="text-align: center;">2</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.3</td> <td>HDPE Pipe Sealing Equipment (State Method)</td> <td style="text-align: center;">2</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.4</td> <td>Fibre Optic Duct Installation Equipment (State Method)</td> <td style="text-align: center;">4</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.5</td> <td>Equipment for cutting and cleaning FO cable</td> <td style="text-align: center;">2</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.6</td> <td>Method for capture and disposal of FO waste.</td> <td style="text-align: center;">2</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.7</td> <td>Fibre Optic Splicing Equipment</td> <td style="text-align: center;">4</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.8</td> <td>Duct and ODF Labeling Equipment</td> <td style="text-align: center;">2</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.9</td> <td>Fibre Optic Testing Equipment (LSPM, OTDR), calibrated as per 240-70732888</td> <td style="text-align: center;">4</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.10</td> <td>HDPE Pipe data sheets submitted, meeting D-DT-8081</td> <td style="text-align: center;">4</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.11</td> <td>ODF data sheets submitted, meeting 240-70733995</td> <td style="text-align: center;">4</td> <td></td> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.12</td> <td>Fibre Duct Cable (24/48 core SM HDD) data sheets submitted, meeting NRS-088</td> <td style="text-align: center;">2</td> <td></td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>1.13</td> <td>Annexures (A/B schedules for NRS-088) completed</td> <td style="text-align: center;">2</td> <td></td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>TOTAL item-1</b></td> <td style="text-align: center;"><b>40</b></td> <td colspan="3"></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>item-2</b></td> <td><b>Resource Availability : Staff - 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