



NETWORK AND ASSET MAINTENANCE SPECIFICATION

Supply, Deliver and Maintain Mobile Lights for Rental for Ore Line October Shutdown

Circulation Restricted To:

Transnet Rail Infrastructure Manager

Transnet and Relevant Third Parties

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1 GENERAL REQUIREMENTS

This section of the specification lays out the requirements and scope of work for the procurement of *Supply, Deliver and Maintain Mobile Lights for Rental for Ore Line October Shutdown*.

1.1 PURPOSE

The purpose of this procurement event is to secure reliable suppliers for the Ore Line for:

- The rental of hydraulic tower lights, headlamps and battery-operated lights.
- The lights should be maintained and moved as necessary for the area required to be covered by the ballast offloading and ballast stockpile / loading sites.
- The lights should be maintained and moved as necessary for the area required to cover the rail and component replacement sites.
- The lights should be maintained and moved as necessary for the area required to be covered by the sleeper offloading and sleeper stockpile / loading sites.
- The lights should be maintained and moved as necessary for the area required to be covered by the culvert replacement and formation rehabilitation sites.
- Ensuring sufficient lighting for Perway to execute their tasks successfully.

1.2 SCOPE OF WORK

The scope of the work consists of the Supply, delivery and maintenance of mobile Lights for Rental for Ore Line October Shutdown as seen in Table 1 and Table 2. The scope includes ensuring the supply of power is continuous through the refuelling for all lighting units. The successful tender shall:

1. Supply A total of 170 Hydraulic Tower Lighting units for rental:

- Ballast offloading sites, ballast stockpile sites and rail and rail component replacement sites for the October 2026 Ore Line Maintenance shutdown.
- Establishment and de-establishment of the tower lighting plants.
- Lights should be able to cover approximately 250m facing each other and at the appropriate angle ensuring adequate lighting across the area

2. Supply A total of 100 Battery-Operated Lighting units for rental:

- The ballast offloading site to ensure the opposite side of the track is well lit.
- The lights should be 12,000 lumens (turbo mode) or 6,500 lumens (standard), 360-degree horizontal and 180-degree vertical remote-controlled rotation, magnetic base and IP66/IK10 rated, Or similar. The lights should be able to magnetically mount to a ballast wagon.

- Each light should have an extra battery bank to allow for lighting throughout the nightshift work.
 - The batteries should be charged during the dayshift and prepared for the following nightshift.
3. Supply A total of 60 Headlamps with batteries:
- Ensuring sufficient lighting on the opposite side of the track for the safety of the personnel working on the ballast train
 - The headlamps should come with sufficient batteries to be able to last entire nightshifts for a period of at least 10 nights
4. Provide Drivers and Operators including the following:
- LDVs for the movement and maintenance of the lights for adequate lighting per area for the required maintenance to be conducted.
 - The refuelling, maintaining and managing the movement of the lights to ensure the correct areas have adequate lighting for the required maintenance to be conducted.
5. Supply, Deliver and Refuel Diesel for:
- The hydraulic tower lights to ensure a continuous supply of power to the lights while in operation.
6. Supply and Deliver Diesel Trailers / Canisters with pumps for rental for:
- Managing the refuelling of the hydraulic tower lights to ensure a continuous supply of power to the lights while in operation.
7. Supply and Deliver Diesel for:
- Refuelling, by the tenderer, of the hydraulic tower lights to ensure a continuous supply of power to the lights while in operation.
 - The amount of diesel supplied shall be at least the minimum required to ensure continuous operation at night.
8. Supply Battery Operated Flood Lights (or Similar) for rental:
- To ensure the opposite side of the track is well lit where the tower lights cannot be placed. This is specific to the ballast offloading site
 - The lights should be able to magnetically mount to the ballast wagon and provide sufficient lighting.

- The lights should be 12,000 lumens (turbo mode) or 6,500 lumens (standard), 360-degree horizontal and 180-degree vertical remote-controlled rotation, magnetic base and IP66/IK10 rated, Or similar.

9. Supply Head lamps with batteries for:

- Ensuring adequate lighting for ballast offloading to aid the battery-operated.
- Sufficient batteries to cover 10 Nights of use.
- Ensure safety of personnel working on the ballast train

10. Site Specific Requirements:

- The following tables are to be used to complement all the preceding requirements.
- The lighting may be required as and where necessary in the vicinity for other maintenance than explicitly stipulated on the Sishen Saldanha Railway line.

Table 1: Site Specific Requirement, Scope of work and Location Detail

Requirement	Scope	Location / GPS Coordinates (Stations)
Nonstationary Lighting Ballast offloading: ✓ Loop 8 – Loop 9 Stationary Lighting Ballast Stockpiles Areas ✓ Loop 8 or Loop 9	Ensure tower lighting units are managed as set out in section 1.2 of this specification, per ballast offloading site to cover a minimum of 3km of lighting per area per night. 10 LDV teams (Driver and operator) shall manage the offloading area. <u>The day shift to prepare for the following shift.</u> The 10 teams in total will manage the stockpile area lighting which should be monitored during the night shift.	Salkor Yard ✓ -32.950130909925015, 18.04476780987137 Loop 2 / Kreefbaai: ✓ -32.22062715037418, 18.337068591523717 Loop 4 / Knersvlakte: ✓ -31.593163470969508, 18.47685435924536 Loop 5 / Saggiesberg: ✓ -31.329203389097955, 18.776468725073997 Loop 7 / De Kop ✓ -30.59241822160114, 19.353887579546786 Loop 8 / Sous: ✓ -30.441613520946163, 19.6002257750067 Loop 9 / Commissionerspan: ✓ -30.229604512654042, 19.859369875544463 Loop 10 / Halfweg: ✓ -30.011325972896373, 20.133581281433933
Nonstationary Lighting Ballast offloading: ✓ Loop 12 – Loop 13 ✓ Loop 13 – Loop 12 Stationary Lighting Ballast Stockpiles Areas ✓ Loop 12 and Loop 13	Ensure tower lighting units are managed as set out in section 1.2 of the accompanying specification, per ballast offloading site to cover a minimum of 5km of lighting per area per night. 16 LDV teams (Driver and operator) shall manage the offloading area. <u>The day shift to prepare for the following shift.</u> The 16 teams in total will manage the stockpile area lighting which should be monitored during the night shift.	
Stationary Lighting Ballast Stockpiles Areas ✓ Loop 2, Loop 7, Loop 16, Loop 17, Loop 18 and Loop 19	1 LDV team (Driver and operator) to be available per site to manage the lighting for ballast stockpile areas to ensure adequate lighting and manage as per requirements set out in Table 1.	

Nonstationary Lighting Rail Offloading / Replacement ✓ Loop 18 to L19	6 LDV team (Driver and operator) to be available on site to manage the lighting between Loop 18 and loop 19 for rail offloading / replacement to ensure adequate lighting and manage as per requirements set out in Table 1.	Loop 11 / Dagab: ✓ -29.777446203951, 20.373377225142974 Loop 12 / Kolke: ✓ -29.512924933852233, 20.784991372399247 Loop 13 / Kenhardt: ✓ -29.3003822065423, 21.047737080391936 Loop 14 / Rugseer: ✓ -29.15140755596265, 21.346368512667066 Loop 15 / Oorkruis: ✓ -28.94025850707349, 21.684167262047932 Loop 16 / Rooilyf: ✓ -28.744973486557225, 21.981705162892634 Loop 17 / Witpan: ✓ -28.485911947017836, 22.29169145337237 Loop 18 / Vrolik: ✓ -28.146264547783755, 22.635637716324087 Loop 19 / Langberg: ✓ -27.95807619916475, 22.8714985380022
Stationary Lighting Turnout replacement ✓ Salkor Yard in Saldanha	2 LDV teams (Driver and operator) to be available on site to manage the lighting at Salkor Yard for turnout replacement to ensure adequate lighting and manage as per requirements set out in Table 1.	
Nonstationary Lighting Sleeper Stockpile Areas ✓ Loop 14, Loop 15 and Loop 16	2 LDV team (Driver and operator) to be available per site to manage the lighting for Sleeper stockpile areas to ensure adequate lighting for loading and offloading of sleepers and manage as per requirements set out in Table 1.	
Stationary Lighting Culvert replacements ✓ Loop 17 – Loop 18 (3 sites) ✓ Loop 10 Formation Rehabilitation ✓ Loop 4 and Loop 5	1 LDV team (Driver and operator) to be available per site to manage the lighting for culvert replacement and formation rehabilitation areas to ensure adequate as per requirements set out in Table 1.	

1.3 PRICING SCHEDULES

Loop 8 - Loop 9 (Ballast offloading site and stockpile areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 20 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 20 Units	Each	20
3	De-establishment of 20 Units	Each	20
4	Rental of 1 Diesel Trailer with a Pump	Days	13
5	Rental of 10 LDV's - To work dayshift and nightshift - 8 Night shift only and 2 both shifts (12 Teams) - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV per Shift: - 12 Drivers (2 dayshift & 10 nightshift) - 12 Operators (2 dayshift & 10 nightshift)	Days	13

7	20 Head Lamps - with sufficient batteries for min. 10 nights	Days	13
8	Rental of 30 Battery-Operated Flood Lights - 2 Battery banks per light - Charge battery packs during the dayshift - Charging accessories, equipment and cables if not charged off-site	Days	13

Loop 12 - Loop 13 (Ballast offloading sites and stockpile areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 40 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 40 Units	Each	40
3	De-establishment of 40 Units	Each	40
4	Rental of 1 Diesel Trailer with a Pump	Days	13
5	Rental of 12 LDV's - To work dayshift and nightshift - 12 Night shift only and 4 both shifts (16 Teams) - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV per Shift: - 16 Drivers (4 dayshift & 12 nightshift) - 16 Operators (4 dayshift & 12 nightshift)	Days	13
7	40 Head Lamps - with sufficient batteries for min. 10 nights	Days	13
8	Rental of 70 Battery-Operated Flood Lights - 2 Battery banks per light - Charge battery packs during the dayshift - Charging accessories, equipment and cables if not charged off-site	Days	13

Loop 2 (Ballast Stockpile Areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 7 (Ballast Stockpile Areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 9 (Ballast Stockpile Areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 15 (Ballast Stockpile Areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 16 (Ballast Stockpile Areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 17 (Ballast Stockpile Areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 18 (Ballast Stockpile Areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 19 (Ballast Stockpile Areas)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 18 – Loop 19 (Rail Replacement Sites)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 12 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 12 Units	Each	12
3	De-establishment of 12 Units	Each	12
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 12 Lights running for the entire nightshift	Days	13
5	Rental of 6 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	6 Drivers & 6 Operators per LDV for nightshift	Days	13

Loop 14 – Loop 16 (Sleeper Replacement and Stockpile Sites)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 24 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 24 Units	Each	24
3	De-establishment of 24 Units	Each	24
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 24 Lights running for the entire nightshift	Days	13
5	Rental of 6 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	6 Drivers & 6 Operators per LDV for nightshift	Days	13

Salkor Yard (Turnout Replacement Site)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 8 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 8 Units	Each	8
3	De-establishment of 8 Units	Each	8
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 8 Lights running for the entire nightshift	Days	13
5	Rental of 2 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	2 Drivers & 2 Operators per LDV for nightshift	Days	13

Loop 10 (Culvert Replacement Site)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 3 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 3 Units	Each	3
3	De-establishment of 3 Units	Each	3
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 3 Lights running for the entire nightshift	Days	13
5	Rental of 1 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	1 Driver & 1 Operator per LDV for nightshift	Days	13

Loop 17 – Loop 18 (Culvert Replacement Sites)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 9 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 9 Units	Each	9
3	De-establishment of 9 Units	Each	9
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 9 Lights running for the entire nightshift	Days	13
5	Rental of 3 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	3 Drivers & 3 Operators per LDV for nightshift	Days	13

Loop 4 and Loop 5 (Formation Rehabilitation Sites)

Item No	Description of Goods /Services	Unit of Measure	Quantity
1	Rental of 6 Hydraulic Light Tower - Wet Rate (including refuelling)	Days	13
2	Establishment of 6 Units	Each	6
3	De-establishment of 6 Units	Each	6
4	Rental of 1 Diesel Trailer with a Pump - May quote for canister or similar if a trailer is not required to keep 6 Lights running for the entire nightshift	Days	13
5	Rental of 2 LDV - To work nightshift - Wet rate (including refuelling)	Days	13
6	2 Drivers & 2 Operators per LDV for nightshift	Days	13

SALKOR - ERTS (Iron Ore Line)		
Loop	Station	Nearest Town
Salkor yard	Salkor	Vredenburg/Saldanha
Loop 1	Dwarskersbos	Veldrif
Loop 2	Kreefbaai	Elandsbaai
Loop 3	Bamboesbaai	Lambertsbaai
Loop 4	Knersvlak	Vredendal/Van ryns dorp
Loop 5	Saggiesberg	Van ryns dorp
Loop 6	Kanakies	Van ryns dorp
Loop 7	Abikwa	Loerisfontein
Loop 7A	De Kop	Loerisfontein
Loop 8	Sous	Loerisfontein
Loop 9	Commisionerspan	Loerisfontein/Calvinia
Loop 10	Halfweg	Loerisfontein/Brandvlei
Loop 11	Dagab	Brandvlei
Loop 12	Kolke	Brandvlei
Loop 13	Kenhardt	Kenhardt
Loop 14	Rugseer	Kenhardt
Loop 15	Oorkruis	Kakamas/Keimos
Loop 16	Rooslyf	Grobbershoep
Loop 17	Witpan	Upington
Loop 18	Vroilik	Olifantsoek
Loop 19	Langberg	Kathu
Erts yard	Erts	Kathu