

**BILL OF QUANTITIES**  
**CONTRACT No: SIC10006CIDB**  
**TURNOUT SLEEPER REPLACEMENT: DBN,EMG AND ISO**

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL
<b>1</b>	<b>Preparatory Work</b>				
<b>1.1</b>	<b>Measurement of sleepers (Infra-bolt process)</b>				
1.1.1	Any 1:9 turnout complete (100m of sleepers).	Turnout	35		
1.1.2	Any 1:12 turnout complete (135m of sleepers).	Turnout	41		
1.1.3	Any 1:7 diamond crossing complete (290m of sleepers).	Diamond	1		
1.1.4	Any damaged sleeper on 1:9 or 1:12 turnout or 1:7 diamond crossing	Metre	1500		
<b>1.2</b>	<b>Repair Turnout Geometry (Infra-bolt process)</b>				
1.2.1	Any 1:9 turnout complete (100m sleepers)	Turnout	35		
1.2.2	Any 1:12 turnout complete (135m of sleepers)	Turnout	41		
1.2.3	Any 1:7 diamond crossing complete (290m of sleepers)	Diamond	1		
<b>2.0</b>	<b>Replacement of sleepers (Infra-bolt process)</b>				
2.1	Any 1:9 turnout complete (100m of sleepers). (Contractor-supply-Contractor-install)	Turnout	1		
2.2	Any 1:12 turnout complete (135m of sleepers). (Contractor-supply-Contractor-install)	Turnout	1		
2.3	Any 1:7 diamond crossing complete (290m of sleepers). (Contractor-supply-Contractor-install)	Diamond	1		
2.4	Any damaged sleeper on 1:9 or 1:12 turnout or 1:7 diamond crossing. (Contractor-supply-Contractor-install)	Metre	10		
2.5	Unit rate for correction to actual meters of sleeper per turnout (Clause 1 PS) (Contractor-supply-Contractor-install) Provisional	Metre	10		
2.6	Any 1:9 turnout complete (100m of sleepers). (TFR-supply-Contractor-install)	Turnout	35		
2.7	Any 1:12 turnout complete (135m of sleepers). (TFR-supply-Contractor-install)	Turnout	41		
2.8	Any 1:7 diamond crossing complete (290m of sleepers). (TFR-supply-Contractor-install)	Diamond	1		
2.9	Any damaged sleeper on 1:9 or 1:12 turnout or 1:7 diamond crossing. (TFR-supply-Contractor-install)	Metre	1500		
2.10	Unit rate for correction to actual meters of sleeper per turnout (Clause 1 PS) (TFR-supply-Contractor-install) Provisional	Metre	2500		
2.11	Compensation Rate for reduced occupation time to below 10 hours (e.g. Metro Lines)	Operation -Hour	200		
<b>A3.00</b>	<b>Establishment per Depot Area (Incl. Associated Pre-inspection) - NO TFR WAGONS PROVIDED</b>				
A3.01	Replacement within Bellville depot area	sum	Rate Only		
A3.02	Replacement within Bloemfontein depot area	sum	Rate Only		
A3.03	Replacement within Port Elizabeth depot area	sum	Rate Only		
A3.04	Replacement within Kimberley depot area	sum	Rate Only		
A3.05	Replacement within Krugersdorp depot area	sum	Rate Only		
A3.06	Replacement within Isando Central depot area	sum	3		
A3.08	Replacement within Koedoespoort depot area	sum	Rate Only		
A3.09	Replacement within Nelspruit depot area	sum	Rate Only		
A3.10	Replacement within Pietersburg depot area	sum	Rate Only		
A3.11	Replacement within Heidelberg depot area	sum	Rate Only		
A3.12	Replacement within Ladysmith depot area	sum	Rate Only		
A3.13	Replacement within Durban depot area	sum	3		
A3.14	Replacement within Empangeni depot area	sum	3		
A3.15	Replacement Ore line (between Saldanha and Erts)	sum	Rate Only		
A3.16	Replacement within Ermelo depot area	sum	Rate Only		
A3.17	Moving the Contractor's camp complete by road	km	5000		

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL
<b>B3.00</b>	<b>OPTION : Establishment per Depot Area (Incl. Associated Pre-inspection) - TFR WAGONS PROVIDED</b>				
<b>B3.01</b>	Replacement within Bellville depot area	sum	Rate Only		
<b>B3.02</b>	Replacement within Bloemfontein depot area	sum	Rate Only		
<b>B3.03</b>	Replacement within Port Elizabeth depot area	sum	Rate Only		
<b>B3.04</b>	Replacement within Kimberley depot area	sum	Rate Only		
<b>B3.05</b>	Replacement within Krugersdorp depot area	sum	Rate Only		
<b>B3.06</b>	Replacement within Isando Central depot area	sum	3		
<b>B3.08</b>	Replacement within Koedoespoort depot area	sum	Rate Only		
<b>B3.09</b>	Replacement within Nelspruit depot area	sum	Rate Only		
<b>B3.10</b>	Replacement within Pietersburg depot area	sum	Rate Only		
<b>B3.11</b>	Replacement within Heidelberg depot area	sum	Rate Only		
<b>B3.12</b>	Replacement within Ladysmith depot area	sum	Rate Only		
<b>B3.13</b>	Replacement within Durban depot area	sum	3		
<b>B3.14</b>	Replacement within Empangeni depot area	sum	3		
<b>B3.15</b>	Replacement Ore line (between Saldanha and Erts)	sum	Rate Only		
<b>B3.16</b>	Replacement within Ermelo depot area	sum	Rate Only		
<b>4.00</b>	<b>Categories of Site Restriction</b>				
<b>4.01</b>	Work site situated in-between multiple railway lines	work site	50		
<b>4.02</b>	No service road access to site	work site	50		
<b>4.03</b>	Formation level of work site on embankment of 1 meter or higher	work site	50		
<b>4.04</b>	Formation level of work site in cutting of 1 meter or deeper	work site	50		
<b>5.00</b>	<b>Standing Time</b>	day	40		
<b>6.00</b>	<b>Work after hours</b>				
<b>6.10</b>	<b>Normal Overtime (Outside normal working hours and on Saturdays)</b>				
<b>6.11</b>	Labourers	man hour	1200		
<b>6.12</b>	Unskilled	man hour	660		
<b>6.13</b>	Skilled	man hour	450		
<b>6.14</b>	Driver Operator	man hour	180		
<b>6.15</b>	Artisan	man hour	120		
<b>6.16</b>	Supervisor	man hour	60		
<b>6.20</b>	<b>Sunday Time (Including work on Public Paid Holidays)</b>				
<b>6.21</b>	Labourers	man hour	1800		
<b>6.22</b>	Unskilled	man hour	800		
<b>6.23</b>	Skilled	man hour	500		
<b>6.24</b>	Driver Operator	man hour	250		
<b>6.25</b>	Artisan	man hour	180		
<b>6.26</b>	Supervisor	man hour	70		

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL
<b>7.00</b>	<b>Day Labour (NOT Applicable to provision of Flagmen)</b>				
7.01	Labourers	man hour	1300		
7.02	Unskilled	man hour	4000		
7.03	Skilled	man hour	800		
7.04	Driver Operator	man hour	360		
7.05	Artisan	man hour	20		
7.06	Supervisor	man hour	15		
<b>8.00</b>	<b>Cellphone costs &gt; Talk 500 and repairs (not to be priced)</b>	sum			
<b>9.00</b>	<b>Material Handling</b>				
9.10	Road transport of Universal Sleepers (Factory to Depot area) (Provisional) (Minimum Distance for payment = 200km)	Set-km	135000		
9.20	Off-loading of Universal sleepers at depot area (Provisional)	Set	76		
9.30	Secondary Handling of new and released material between depot area delivery point and final point of installation (>500m up to 25.5km) (Provisional)	Set	90		
9.31	Extra-Over Rate for Secondary Handling for distance beyond 25.5km from point of delivery (Provisional)	Set-km	2000		
9.40	Ordering/Controlling orders, Expediting and Co-ordination of ALL material and ALL forms of transport to point of installation	Set	76		
<b>10.00</b>	<b>Ballastscreen of Turnouts (Option)</b>				
10.10	Screen 1:9 set complete (Total turnout plus 20m either side)	Set	35		
10.20	Screen 1:12 set complete (Total turnout plus 20m either side)	Set	41		
10.30	Screen 1:7 diamond complete (Total turnout plus 20m either side)	Diamond	1		
<b>11.00</b>	<b>Install standard flatsleepers (Option)</b>				
11.10	Install P2 flat sleeper (Contractor-supply-Contractor-install) Provisional	Sleeper	600		
11.20	Install PY flat sleeper.(Contractor-supply-Contractor-install) Provisional	Sleeper	600		
11.30	Install P2 flat sleeper. (TFR-supply-Contractor-install) Provisional	Sleeper	600		
11.40	Install PY flat sleeper.(TFR-supply-Contractor-install) Provisional	Sleeper	600		
<b>TOTAL</b>					

Signed

Date

"PREVIEW COPY ONLY"