

Maintenance of ethekwin owned Rail Sidings as and when required in Isipingo area for 36 months

BILL OF QUANTITIES**SECTION 1 PRELIMINARY AND GENERAL****PART AA PRELIMINARIES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.AA.[1.1]	Initial supply of plant, equipment and transport	sum	1		
2	PS.AA.[1.2]	Contractors superintendence including transport and communication	months	36		
3	PS.AA.[1.3]	Provision for C.L.O. as per engineers insturction (Proof of hours worked to be attached to claim)	PC Sum	180000	1.00	180,000.00
4	PS.AA.[1.4]	Provision of flagmen incl. flags or portable STOP and GO/RV signs and safety jackets.	months	36		
5	PS.AA.[1.5]	Accomodation of traffic as per the Southern African Development Community Roads Traffic Manual Vol 2 and in accordance with RTI	months	36		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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PART AH OCCUPATIONAL HEALTH and SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AH.14.1	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations. Included in this item is the supply of all personal protective equipment (PPE) required to perform works i.e uniform, safety shoes, safety vest, gloves, etc.	sum	1		
2	AH.14.2	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations. Included in this item is the supply of all personal protective equipment (PPE) required to perform works i.e uniform, safety shoes, safety vest, gloves, etc.	months	36		
3	AH.14.3	Submission of the Health and Safety File (to be approved by Department Health and Safety officer before execution of works).	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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SECTION 2 MAINTENANCE**PART NB RAILWAY SIDINGS (TRACKWORK)**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	8.3.10.g PS.NB.8.3.10.g	General maintenance requirement	months	36		
2	8.3.10.h PS.NB.8.3.10.h	Monthly service	months	36		
3	8.3.10.i	Monthly submission of documentation	months	36		
4	8.3.10.j	Measurement of turnouts (annually)	no	3		

TOTAL CARRIED TO SECTION 2 SUMMARY: MAINTENANCE

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SECTION 3 UPGRADE AND REPAIRS**PART NB RAILWAY SIDINGS (TRACKWORK)**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Supply, deliver and stockpile trackwork</u>				
1	8.3.1.a	Supply 48kg/m rail (Class A)	m	900		
2	8.3.1.b.i	Supply 2.1m timber sleeper	no	30		
3	8.3.1.b.ii	Supply new P2 complete with fastenings	no.	75		
4	8.3.1.b.iii	Supply refurbished concrete sleeper	no.	30		
5	8.3.1.e.i	Supply turnout complete 1:8	RateOnly	0		RATE ONLY
6	8.3.1.e.ii	Supply turnout complete 1:9	RateOnly	0		RATE ONLY
7	8.3.1.e.iii	Supply turnout complete 1:12	RateOnly	0		RATE ONLY
8	8.3.1.f	Supply crossing timbers	no.	300		
9	8.3.1.i	Supply and replace stopblock complete	no.	3		
10	8.3.1.k	Supply hand tumbler complete	no.	7.5		
11	8.3.1.l	Supply counter weight	no.	7.5		
12	8.3.1.m	Supply counter weight arm	no.	7.5		
13	8.3.1.n	Supply kick over lever	no.	7.5		
14	8.3.1.g	Supply joints plates	no.	75		
15	8.3.1.h	Supply joint bolts and nuts	no.	300		
16	8.3.1.o	Supply guage clip for concrete sleepers	no.	300		
17	8.3.1.p	Supply pandrol springs	no.	90		
18	8.3.1.q	Supply heel blocks complete	no.	6		
19	8.3.1.r	Supply heel bolts and nut	no.	24		
20	8.3.1.s	Supply crossing bolts and nuts	no.	300		
21	8.3.1.t	Supply coach screws B type	no.	2100		
22	8.3.1.u	Supply soleplates	no.	450		
23	8.3.1.v	Supply pull rod,front rod,back rod	no.	22.5		
24	8.3.1.w	Supply stock and switch complete	RateOnly	0		RATE ONLY
25	8.3.1.x	Supply switch blade	RateOnly	0		RATE ONLY
26	8.3.1.y	Supply rail crossing	RateOnly	0		RATE ONLY
27	8.3.1.z	Supply stock and guard complete	RateOnly	0		RATE ONLY
		<u>Load from stockpile(jacobs) transport to Isipingo</u>				
28	8.3.11.a	48kg/m rail	m	1800		
29	8.3.11.b	Pandrol concrete sleepers	no.	750		

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Part Continued **PART** NB RAILWAY SIDINGS (TRACKWORK)

Item	Clause	Description	Unit	Quantity	Rate	Amount
30	8.3.11.c	48kg/m crossings	RateOnly	0		RATE ONLY
31	8.3.11.d	48kg/m stock and guard	RateOnly	0		RATE ONLY
32	8.3.11.e	48kg/m stock and switch	RateOnly	0		RATE ONLY
33	8.3.11.f	48kg/m lead and closure rails	RateOnly	0		RATE ONLY
34	8.3.11.g	Set steel sleepers	no.	4.5		
35	8.3.11.h	Crossing timbers	no.	82.5		
36	8.3.11.i	Stopblocks	no.	1.5		
		<u>Load from stockpile(Daval depot) transport to Isipingo</u>				
37	8.3.11.j	Joints plates	no.	375		
38	8.3.11.k	Joints bolts and nuts	no.	1500		
39	8.3.11.l	Soleplates	no.	300		
40	8.3.11.m	Coachscrews	no.	900		
41	8.3.11.n	knuckle type tumbler	no.	1.5		
42	8.3.11.o	Pull,front,back rod	no.	12		
43	8.3.11.p	Pandrol springs	no.	3750		
44	8.3.11.q	GPI's	no.	3750		
45	8.3.11.r	HDPE pads	no.	1875		
		<u>Lay or install trackwork</u>				
46	8.3.2.e	Weld rail joints	no.	255		
		<u>Ballasting</u>				
47	8.3.3.a	Provide and distribute ballast	m3	675		
48	8.3.3.b	Lift and pack trackwork and box in	m	3000		
49	8.3.3.c	Extra over for turnouts, special slips, crossings or stopblock	no.	150		
50	8.3.3.d	Fill between tracks	m3	7.5		
		<u>Rerail and resleeper</u>				
51	8.3.8.a.i	Replace timber sleeper with pandrol concrete sleeper	no.	1125		
52	8.3.8.a.ii	Replace crossing timber	no.	157.5		
53	8.3.8.b	Rerail	m	3600		
54	8.3.8.c	Destress existing LWR track	m	1800		
55	8.3.8.d	Construct turnout crossing alongside track and slew into position	RateOnly	0		RATE ONLY

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Item	Clause	Description	Unit	Quantity	Rate	Amount
56	8.3.8.e	Drill fishplate holes or cut rails	no.	75		
57	8.3.8.f	Remove old track signs	no.	30		
		<u>Reballast</u>				
58	8.3.9.a	Repack and box in existing trackwork	m	112.5		
59	8.3.9.b	Remove and screen existing ballast	m3	1500		
60	8.3.9.c	Dispose of soil resulting from reballasting	m3	675		
		<u>Subdries-provide deliver, stockpile and install</u>				
61	8.3.10.a	Rail lubricators	no.	10		
62	8.3.10.b	Clearance markers	no.	22.5		
63	8.3.10.c	Track signs	no.	15		
64	8.3.10.d	Guard rails, cattle guards and similar accessories	RateOnly	0		RATE ONLY
65	8.3.10.e	Insulating block joints	RateOnly	0		RATE ONLY
66	8.3.10.f	Track bonding	no.	22.5		
		<u>Opening and closing level crossing to below of rail</u>				
67	8.3.13.a	Asphalt surface	RateOnly	0		RATE ONLY
68	8.3.13.b	Crossing blocks	RateOnly	0		RATE ONLY
		<u>Replace from stockpile</u>				
69	8.3.2.k	Hand tumbler complete	no.	22.5		
70	8.3.2.l	Counter weight	no.	22.5		
71	8.3.2.m	Counter weight arm	no.	22.5		
72	8.3.2.n	Kick over lever	no.	22.5		
73	8.3.2.g	Joint plates	no.	150		
74	8.3.2.h	Joint bolts and nuts	no.	150		
75	8.3.2.o	Gauge clip for concrete sleepers	no.	300		
76	8.3.2.p	Pandrol springs	no.	3750		
77	8.3.2.q	Heel blocks complete	no.	15		
78	8.3.2.r	Heel bolts and nut	no.	30		
79	8.3.2.s	Crossing bolts and nuts	no.	30		
80	8.3.2.t	Coach screws B type	no.	2100		
81	8.3.2.u	Soleplates	no.	450		
82	8.3.2.v	Rods(pull,front or back)	no.	22.5		

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Part Continued PART NB RAILWAY SIDINGS (TRACKWORK)

Item	Clause	Description	Unit	Quantity	Rate	Amount
83	8.3.2.w	Stock and switch complete	RateOnly	0		RATE ONLY
84	8.3.2.x	Switch blade	RateOnly	0		RATE ONLY
85	8.3.2.y	Rail crossing	RateOnly	0		RATE ONLY
86	8.3.2.z	Stock and guard complete	no.	9		

TOTAL CARRIED TO SECTION 3 SUMMARY: UPGRADE AND REPAIRS

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Maintenance of ethekweni owned Rail Sidings as and when required in Isipingo area for 36 months

SUMMARY OF BILL OF QUANTITIES

Section

1	PRELIMINARY AND GENERAL		R	_____
	AA PRELIMINARIES	R	_____	
	AH OCCUPATIONAL HEALTH and SAFETY	R	_____	
2	MAINTENANCE		R	_____
	NB RAILWAY SIDINGS (TRACKWORK)	R	_____	
3	UPGRADE AND REPAIRS		R	_____
	NB RAILWAY SIDINGS (TRACKWORK)	R	_____	
SUB TOTAL				R _____
ADD VAT (15%) - (only if a registered VAT Vendor)				R _____
TOTAL CARRIED TO FORM OF TENDER				R _____