

**BASIC LINE COST BREAKDOWN
SUMMARY SHEET**

Project Title:
Project Number:
Estimate Date
Prepared by:
Line length
Line Voltage

| | |
|---|------------|
| 400kV Garona-Aries Line- Compact Crossrope Design | |
| TBA | |
| 30-Jul-06 | |
| S Natesan | |
| 110.00 | kilometers |
| 400 | kV |

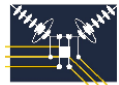
Escalated to date: 30-Jul-06

| Item | | Base Cost | Access factor | Esc. factor | Length factor | Totals | Cost/km | % |
|------------------------------|---------------------------------------|------------|---------------|-------------|---------------|------------|---------|-------|
| P&G | % Constr cost: 19% | 13,661,279 | 1.00 | N/A | 1 | 13,661,279 | 124,193 | 9.8% |
| Access & Environmental Rehab | % Constr cost: 7% | 5,052,802 | 1.03 | N/A | 1 | 5,191,754 | 45,935 | 3.7% |
| Minor Works | % Constr cost: 4% | 2,949,052 | 1.00 | N/A | 1 | 2,949,052 | 26,810 | 2.1% |
| Foundations | | 7,454,930 | 1.03 | 1.036 | 1 | 7,934,748 | 67,772 | 5.7% |
| Tower supply | 256 towers | 26,763,921 | 1.00 | 1.032 | 1 | 27,613,418 | 243,308 | 19.8% |
| Tower erection | | 4,203,337 | 1.03 | 1.032 | 1 | 4,456,013 | 38,212 | 3.2% |
| Stringing and Tower D | 3 bundle | 7,747,582 | 1.03 | 1.255 | 1 | 9,991,908 | 70,433 | 7.2% |
| Hardware | | 5,227,771 | 1.00 | 1.220 | 1 | 6,376,536 | 57,969 | 4.6% |
| Insulators | | 2,733,344 | 1.00 | 1.163 | 1 | 3,180,141 | 28,910 | 2.3% |
| Conductor | Tern Un-greased @ R 42.91 /m | 31,432,500 | 1.00 | 1.351 | 1.03 | 43,750,306 | 397,730 | 31.4% |
| Earthwire No.1 | 192.7 Un-greased @ R 10.45 /m | 1,100,000 | 1.00 | 1.045 | 1.03 | 1,183,730 | 10,761 | 0.9% |
| Earthwire No.2 | OPGW(48 core Un-greased @ R 104.48 /m | 11,000,000 | 1.00 | 1.045 | 1.03 | 11,837,299 | 107,612 | 8.5% |
| Transport | | 801,992 | 1.00 | 1.294 | 1 | 1,038,127 | 9,438 | 0.7% |
| Other Costs: | | | | | | 0 | 0 | 0.0% |

Print Details

| | | |
|------------------------|---|------------------|
| Total Steel tonnage | = | 1725 tons |
| | = | 6.7 tons / tower |
| | = | 15.7 tons / km |
| Cost of dressed towers | = | R 436,171 / km |

| | Cost/km | 100% |
|-----------------------|-------------|----------|
| Construction contract | R71,798,171 | R652,711 |
| Material Supply | R67,366,138 | R612,419 |
| Other | R0 | R0 |



TRANS-AFRICA PROJECTS

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| | | | | |
|---------------|---------------------------------|----------------------|--------------------|------|
| Basic Cost/km | BASIC LINE COST | R139,164,310 | R 1,265,130 | |
| | TAP DESIGN & PM FEES | R 3,431,862 | | 2.5% |
| | T&S Disbursements: | R 290,759 | | |
| | Site Supervision: | R 2,845,980 | | |
| Total Cost/km | TOTAL COST | R 145,732,911 | R 1,324,845 | |