



KENYA-TANZANIA POWER INTERCONNECTION PROJECT

MINUTES OF THE PRE-BID MEETING AND SITE VISITS

17TH - 19TH AUGUST 2015

KETRACO Offices, Capitol Hill Square, Upper hill, Nairobi, Kenya

ATTENDANCE

| Name: | Designation: |
|----------------------------|--|
| 1. Dr. (Eng.) John Mativo | Chief Manager, Planning & Development, KETRACO |
| 2. Eng. Khalid James | Joint Project Coordinator (JPC), TANESCO |
| 3. Peter Njihia | Manager, Supply Chain Management, KETRACO |
| 4. Eng. Jasson J.O. Katule | Ag. Senior Manager Procurement, TANESCO |
| 5. Caroline Kiara | Senior Supply Chain Officer, KETRACO |
| 6. Eng. Lewanga Tesha | Engineer, TANESCO |
| 7. David D. Mrema | Engineer, TANESCO |
| 8. Ruth Mburu | Civil Engineer, KETRACO |
| 9. Lorena Simba | Civil Engineer, KETRACO |
| 10. Kennedy Njoroge | Electrical Engineer, KETRACO |
| 11. Jonathan Waweru | Legal Officer, KETRACO |
| 12. Benson Ntauti | Surveyor, KETRACO |

AGENDA

| Activity: | Responsible: |
|---------------------------------------|--|
| 1 Arrival and Registration | All Bidders |
| 2 Welcoming Remarks and Introductions | Chief Manager Planning & Development, KETRACO/JPC, TANESCO |
| 3 Briefing on Tendering Process | Procurement KETRACO/TANESCO |
| 4 Briefing on Transmission Line Lots | KETRACO/TANESCO |
| 5 Visit to the Project Sites | KETRACO/TANESCO |

| MINUTES | |
|----------------|---|
| 1.0 | Introductions Dr. John Mativo, acknowledged presence of bidders and introduced the KETRACO and TANESCO team present. |
| 2.0 | Remarks by Chair and Co-Chair |
| 2.1 | Remarks by Chair, Dr. John Mativo |
| 2.1.1 | Bidders present were asked to state their names and e-mail addresses clearly on the circulated sheets. This information was to be used for all clarifications/addenda issued by KETRACO/TANESCO. This will be in addition to the e-mail addresses of the bidders who have bought the bidding documents. |
| 2.1.2 | Bidders were encouraged to form partnerships with local subcontractors as is the requirement in the bidding document and Kenyan law under NCA (National Construction Authority) regulations. This requirement is also recognized by Tanzania Law under Public Procurement Act (2011) and its regulations under GN. No. 446 of 2013. |
| 2.1.3 | Bidders were reminded to go through all the requirements stipulated in the bidding document for full compliance in order to win one or more contracts |
| 2.1.4 | Bidders were assured that the way-leave would be provided by the clients in the respective countries. Way-leave compensations and land acquisitions would be the responsibility of the clients as is specified in the bidding document. |
| 2.2 | Remarks by Co-Chair, Eng. Khalid James |
| 2.2.1 | Bidders were advised that as per the qualifications information indicated in the bidding document, contractors with poor performance track records in any project (completed or ongoing) within East Africa should not bid for the contracts in the project. |
| 2.2.2 | Bidders were informed to submit their requests for clarifications in writing including editable documents of the same. |
| 2.2.3 | Bidders were reminded to fill appropriately the bid forms before submitting the same along with the bid documents. |
| 2.2.4 | Bidders were informed that the pre-bid minutes and site visit notes would be shared with the financiers, all bidders and other project stakeholders after the site visits are over |
| 3.0 | Briefing on Tendering Process by Eng. Jasson Katule and Mr. Peter Njihia |
| 3.1 | Bidders were reminded that the bid submission and opening date is 29 th September |

| 3.2 | 2015, not later than 10.00 a.m. East Africa Time Bidders were reminded to submit valid bid securities along with the bid documents in accordance with the requirements indicated in the bidding documents. | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|-----------------|----------|---------------|------------|--------------|---|-----------------|------------|-------------|------------------------------------|---------|-------------|-----------------|--|-------------|-------------------------------------|---------|------------|-------|--------|--|
| 4.0 | <p>Briefing on Transmission Line Lots by David Mrema and Ruth Mburu</p> <p>4.1 Bidders were briefed on the scope of the project including description of works to be carried out. The interconnector is a 400kV HVAC line of approximate total length of 510km divided into four lots from Isinya 400/220kV Substation to Singida 220kV Substation as listed below:</p> <ul style="list-style-type: none"> ➤ Kenya portion: <ul style="list-style-type: none"> ○ Lot K1: Isinya 400/220kV Substation –Kenya/Tanzania Border(Namanga) (approximately 96km) ➤ Tanzania portion: <ul style="list-style-type: none"> ○ Lot T3: Tanzania/Kenya Border (Namanga) – New Arusha 400kV Substation (approximately 114km) ○ Lot T2: New Arusha 400kV substation – Babati (approximately 150km) ○ Lot T1: Babati – Singida (approximately 150km) <p>The planned itinerary below was confirmed at the meeting:</p> <table border="1" data-bbox="320 1032 1394 1283"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Location</th> <th>Leading Party</th> </tr> </thead> <tbody> <tr> <td>18.08.2015</td> <td>09.00 -16.00</td> <td>Site Visit Isinya –Namanga – Arusha Section</td> <td>KETRACO/TANESCO</td> </tr> <tr> <td rowspan="3">19.08.2015</td> <td>09.00-12.00</td> <td>Site Visit Arusha – Babati Section</td> <td>TANESCO</td> </tr> <tr> <td>13.00-14.00</td> <td>Break at Babati</td> <td></td> </tr> <tr> <td>14.00-17.00</td> <td>Site Visit Babati – Singida Section</td> <td>TANESCO</td> </tr> <tr> <td>20.08.2015</td> <td>09.00</td> <td>Return</td> <td></td> </tr> </tbody> </table> <p>4.2</p> | Date | Time | Location | Leading Party | 18.08.2015 | 09.00 -16.00 | Site Visit Isinya –Namanga – Arusha Section | KETRACO/TANESCO | 19.08.2015 | 09.00-12.00 | Site Visit Arusha – Babati Section | TANESCO | 13.00-14.00 | Break at Babati | | 14.00-17.00 | Site Visit Babati – Singida Section | TANESCO | 20.08.2015 | 09.00 | Return | |
| Date | Time | Location | Leading Party | | | | | | | | | | | | | | | | | | | | |
| 18.08.2015 | 09.00 -16.00 | Site Visit Isinya –Namanga – Arusha Section | KETRACO/TANESCO | | | | | | | | | | | | | | | | | | | | |
| 19.08.2015 | 09.00-12.00 | Site Visit Arusha – Babati Section | TANESCO | | | | | | | | | | | | | | | | | | | | |
| | 13.00-14.00 | Break at Babati | | | | | | | | | | | | | | | | | | | | | |
| | 14.00-17.00 | Site Visit Babati – Singida Section | TANESCO | | | | | | | | | | | | | | | | | | | | |
| 20.08.2015 | 09.00 | Return | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | <p>Closing Remarks by Eng. Khalid James</p> <p>Eng. Khalid thanked the bidders for attending the Pre- Bid meeting and asked that they participate in the site visits. He also emphasized that bidders should keep time during site visits and bids submission.</p> | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | <p>Visit to the Project Sites</p> <p>6.1 Site Visit Isinya –Namanga – Arusha Section (Lot K1, Lot T3)</p> <p>6.1.1 Bidders were shown the off-take point at Isinya 400/220kV substation.</p> <p>6.1.2 Bidders were informed that the transmission line corridor was mostly parallel; approximately 500-600m; from the Nairobi – Namanga highway.</p> <p>6.1.3 Bidders were shown the two road crossing points and the point where the line would cross over a 132kV transmission line.</p> <p>There would be two terminal towers – one on each side of the boarder. The last</p> | | | | | | | | | | | | | | | | | | | | | | |

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|-------|--|
| 6.1.4 | contractor to finish would be responsible of stringing between these two towers. Site |
| 6.1.5 | Bidders were shown the offtake point at Namanga near Tanzania/Kenya Border where Lot T3 will start or end (Terminal Tower). |
| 6.1.6 | There would be two terminal towers – one on each side of the border. The last contractor to finish would be responsible for stringing the conductors between these two terminal towers |
| 6.1.7 | Bidders were informed that the transmission line corridor is mostly located approximately 400-7000m from the centre of the Namanga-Arusha highway and further informed that the line also passes through both the Wild life animals reserve area and mountains/hills. |
| 6.1.8 | Bidders were shown two road crossing points that the first point the line crosses the Namanga-Arusha highway and the second point where the line would cross the Arusha-Babati highway to the terminal point within the vicinity of the New Arusha 400kV substation. |
| | Site Visit: Arusha – Babati & Babati– Singida Sections (Lot T2, Lot T1) |
| 6.2 | |
| 6.2.1 | Bidders were shown the off-take point at New Arusha 400 kV Substation vicinity at Lemgru where Lot T2 will start or end (Terminal Tower) |
| 6.2.2 | Bidders were informed that the transmission line corridor is mostly located parallel to the existing Arusha-Singida 220 kV Transmission Line; approximately more than 200 m from the centre of the Arusha-Babati highway and further informed that the line also crosses the highway at least at five (5) points and passes through the Wild life animals reserve area at the vicinity of the Minjingu Phosphate Mining Factory. |
| 6.2.3 | Bidders were also shown the point) within the vicinity of the Babati 220 kV substation at Kiru Six road where Lot T2 will start or end (terminal point) |
| 6.2.4 | Bidders were shown the offtake point at the existing Babati 220 kV Substation vicinity at Kiru Six road where Lot T1 will start or end (Common Terminal Tower as Lot T2) |
| 6.2.5 | Bidders were informed that the transmission line corridor is mostly located parallel to the existing Arusha-Singida 220 kV Transmission Line; approximately more than 200 m from the centre of the Babati-Singida highway and further informed that the line also crosses the highway at least at eight (8) points. |
| 6.2.6 | Bidders were also shown the point) within the vicinity of the Singida 220 kV substation at which Lot T1 will start or end (terminal point) |

SIGNATURE



Eng. Khalid James

Date

28-August 2015

ANNEXES

Annex 1: Angle point coordinates of lot K1

System Settings: Northern Hemisphere - Degrees - ARC1960 - UTM37S

| No. | Name | E | N | Chain (M) |
|-----|---------------|------------|-------------|-----------|
| 0 | ISINYATT400KV | 258270.756 | 9803726.934 | 0.000 |
| 1 | KT1 | 257381.411 | 9797515.117 | 6275.158 |
| 2 | KT2 | 257522.628 | 9795548.853 | 8246.487 |
| 3 | KT3 | 253596.867 | 9792940.009 | 12960.047 |
| 4 | KT4 | 252684.541 | 9785510.033 | 20445.826 |
| 5 | KT5 | 254007.739 | 9779367.379 | 26729.381 |
| 6 | KT6 | 254749.945 | 9775813.401 | 30360.032 |
| 7 | KT7 | 254209.431 | 9774089.457 | 32166.724 |
| 8 | KT8 | 254345.496 | 9771471.014 | 34788.701 |
| 9 | KT9 | 253114.606 | 9770290.303 | 36494.329 |
| 10 | KT10 | 253132.489 | 9764256.703 | 42527.956 |
| 11 | KT12 | 253636.649 | 9761835.692 | 45000.904 |
| 12 | KT13 | 254808.742 | 9758995.361 | 48073.570 |

| | | | | |
|----|-----------|------------|-------------|-----------|
| 13 | KT14 | 254962.363 | 9758795.065 | 48325.995 |
| 14 | KT15 | 255968.658 | 9756189.396 | 51119.226 |
| 15 | KT16 | 260808.557 | 9747059.246 | 61452.874 |
| 16 | KT17 | 262406.003 | 9723355.339 | 85210.546 |
| 17 | KT BORDER | 258523.204 | 9715839.555 | 93670.046 |

Annex 2: Coordinates of lot T1

Route length = 150,229m

| S/No. | Northing (m) | Easting (m) | Description |
|-------|--------------|-------------|-----------------------------|
| | 9464714 | 694640 | Singida S/S, Start of Lot 1 |
| 1 | 9464613 | 695113 | B70A |
| 2 | 9464530 | 696142 | B69A |
| 3 | 9464053 | 697816 | B68A |
| 4 | 9463630 | 698637 | B67 |
| 5 | 9463869 | 700266 | B65A |
| 6 | 9463445 | 702627 | B64A |
| 7 | 9462605 | 704414 | B63 |
| 8 | 9462695 | 705847 | B62 |
| 9 | 9462816 | 706074 | B61A |
| 10 | 9468038 | 713492 | B60A |
| 11 | 9473623 | 716950 | B58B |
| 12 | 9474539 | 717533 | B58A |
| 13 | 9475280 | 717987 | B57A |
| 14 | 9477618 | 725990 | B55A |
| 15 | 9478133 | 728600 | B55 |
| 16 | 9478771 | 730939 | B53B |
| 17 | 9479518 | 731579 | B53A |
| 18 | 9480844 | 733108 | B52A |

| | | |
|----|---------|-------------|
| 19 | 9481434 | 734236 B51B |
| 20 | 9481590 | 734365 B51A |
| 21 | 9482757 | 737507 B50B |
| 22 | 9483827 | 740424 B50A |
| 23 | 9488588 | 746367 B49A |
| 24 | 9494127 | 747980 B47B |
| 25 | 9494205 | 748227 B47A |
| 26 | 9498161 | 752778 B45A |
| 27 | 9499736 | 758757 B44A |
| 28 | 9497109 | 766211 B40E |
| 29 | 9497494 | 767133 B40D |
| 30 | 9498214 | 767604 B40C |
| 31 | 9499419 | 768915 B40B |
| 32 | 9499800 | 769911 B40A |
| 33 | 9502653 | 773410 B39A |
| 34 | 9506034 | 778158 B38 |
| 35 | 9506916 | 780742 B37 |
| 36 | 9511387 | 783405 B34B |
| 37 | 9513269 | 783269 B34A |
| 38 | 9519160 | 784602 B33A |
| 39 | 9523205 | 783526 B32C |
| 40 | 9523473 | 783337 B32B |
| 41 | 9525511 | 782798 B32A |
| 42 | 9525883 | 782870 B31A |
| 43 | 9530500 | 783303 B30A |
| 44 | 9532301 | 784738 B27J |
| 45 | 9533107 | 785852 B27I |
| 46 | 9533354 | 786446 B27H |

| | | |
|----|---------|---|
| 47 | 9533535 | 786637 B27G |
| 48 | 9534618 | 790290 B27F |
| 49 | 9534472 | 795808 B27E |
| 50 | 9534540 | 796268 B27D |
| 51 | 9534628 | 797992 B27C |
| 52 | 9534365 | 798715 B27B |
| 53 | 9534847 | 801871 B25F; Babati, end of Lot 1 close Kiru road |

Annex 3: Coordinates of lot T2

| S/N | Northing (m) | Easting (m) | Description |
|-----|--------------|--|-------------|
| 1 | 9534847 | 801871 B25F; Babati close to Kiru road; Start of Lot 2 | |
| 2 | 9535248 | 802254 B25E | |
| 3 | 9534847 | 801871 B25C | |
| 4 | 9535248 | 802254 B25B | |
| 5 | 9538079 | 803978 B25A | |
| 6 | 9543676 | 806004 B24B | |
| 7 | 9545411 | 805662 B24A | |
| 8 | 9547427 | 807365 B23F | |
| 9 | 9553083 | 809454 B23D | |
| 10 | 9556041 | 810545 B23C | |
| 11 | 9557382 | 810983 B23B | |
| 12 | 9558822 | 810788 B23A | |
| 13 | 9561392 | 811668 B22G | |
| 14 | 9561839 | 812115 B22F | |
| 15 | 9566866 | 814102 B22E | |
| 16 | 9567218 | 814569 B22D | |
| 17 | 9569705 | 815579 B22C | |
| 18 | 9574487 | 817359 B22B | |

| | | | |
|----|--------------|------------|---------------|
| 19 | 9578755 | 818935 | B22A |
| 20 | 9583899 | 822426 | B21E |
| 21 | 9584446 | 822591 | B21D |
| 22 | 9585034 | 823199 | B21C |
| 23 | 9586841 | 824425 | B21B |
| 24 | 9588203 | 825121 | B21A |
| 25 | 9588884 | 825682 | B20C |
| 26 | 9590464 | 826731 | B20B |
| 27 | 9590836 | 827060 | B20A |
| 28 | 9593510 | 826943 | B19A |
| 29 | 9596131 | 831053 | B18B |
| 30 | 9600969 | 171918 | B17A |
| 31 | 9606672 | 175670 | B16A |
| 32 | 9607950 | 176509 | B15E |
| 33 | 9610157 | 179058 | B15C |
| 34 | 9611634 | 180784 | B15B |
| 35 | 9612914 | 182252 | B15A |
| 36 | 9617467 | 187533 | B14C |
| 37 | 9620529 | 189140 | B14B |
| 38 | 9622570 | 189357 | B14A |
| 39 | 9623651 | 193354 | B13C |
| 40 | 9624178 | 194381 | B13B; |
| 41 | 9,624,178.00 | 194,381.00 | B13B; MONDULI |
| 42 | 9,624,526.00 | 195,770.00 | B13A |
| 43 | 9,624,653.00 | 197,103.00 | B12A |
| 44 | 9,623,583.00 | 212,807.00 | B11B |
| 45 | 9,623,214.00 | 218,103.00 | B11A |
| 46 | 9,623,515.07 | 220,531.49 | B10A |

| | | | |
|----|--------------|------------|--------------------|
| 47 | 9,623,605.00 | 222,099.00 | B10 |
| 48 | 9,623,419.00 | 222,368.00 | B9 |
| 49 | 9,624,174.00 | 225,390.00 | B8 |
| 50 | 9,623,768.00 | 226,307.00 | B7 |
| 51 | 9,623,760.00 | 227,264.00 | B6 |
| 52 | 9,623,529.00 | 227,721.00 | B5 |
| 53 | 9,622,978.00 | 228,556.00 | B3B |
| 54 | 9,622,786.00 | 229,235.00 | B3A |
| 55 | 9,622,669.00 | 229,445.00 | B3 |
| 56 | 9,622,114.00 | 229,877.00 | B2 |
| 57 | 9,621,877.00 | 230,413.00 | B1 |
| 58 | 9,621,783.90 | 230,771.25 | LEMGRU S/S; ARUSHA |

Annex 4: Coordinates of lot T3

| Point | Northing | Easting | Description |
|-------|--------------|------------|-----------------------|
| 1 | 9,716,190.04 | 255,907.19 | AE13; NAMANGA, BORDER |
| 2 | 9,715,032.19 | 253,803.30 | AE14 |
| 3 | 9,714,080.90 | 249,871.75 | AE15 |
| 4 | 9,709,850.24 | 245,616.18 | AE16 |
| 5 | 9,705,107.73 | 240,846.68 | AE17 |
| 6 | 9,700,305.77 | 240,703.08 | AE18 |
| 7 | 9,695,028.50 | 243,867.15 | AE19 |
| 8 | 9,688,485.43 | 244,530.73 | AE20 |
| 9 | 9,683,524.06 | 243,906.29 | AE21 |
| 10 | 9,678,562.34 | 243,285.83 | AE22 |
| 11 | 9,673,604.56 | 242,663.00 | AE23 |
| 12 | 9,667,427.75 | 241,882.56 | AE24 |
| 13 | 9,663,371.58 | 243,256.55 | AE25 |

| | | | |
|----|--------------|------------|-------|
| 14 | 9,656,866.75 | 244,171.04 | AE26 |
| 15 | 9,655,773.54 | 243,762.03 | AE27 |
| 16 | 9,652,813.60 | 243,311.58 | AE28 |
| 17 | 9,652,102.49 | 243,105.06 | AE29 |
| 18 | 9,651,642.26 | 243,060.35 | AE30 |
| 19 | 9,650,484.47 | 242,548.36 | AE31 |
| 20 | 9,649,512.72 | 241,772.39 | AE32 |
| 21 | 9,648,481.96 | 238,736.12 | AE33 |
| 22 | 9,647,328.41 | 237,079.62 | AE34 |
| 23 | 9,645,414.05 | 235,269.22 | AE35 |
| 24 | 9,644,354.05 | 232,499.35 | AE36 |
| 25 | 9,643,768.78 | 232,051.18 | AE37 |
| 26 | 9,643,252.93 | 231,299.65 | AE38 |
| 27 | 9,641,699.15 | 230,971.09 | AE39 |
| 28 | 9,640,477.05 | 231,091.41 | AE40 |
| 29 | 9,638,828.59 | 230,443.09 | AE41 |
| 30 | 9,636,686.11 | 230,003.29 | AE42 |
| 31 | 9,635,692.65 | 229,933.57 | AE43 |
| 32 | 9,634,237.68 | 230,850.99 | AE44 |
| 33 | 9,633,063.61 | 230,533.70 | AE45 |
| 34 | 9,632,075.37 | 229,583.66 | AE45A |
| 35 | 9,631,391.93 | 229,668.14 | AE45B |
| 36 | 9,629,374.00 | 229,778.00 | AE46A |
| 37 | 9,628,794.00 | 230,008.00 | AE46B |
| 38 | 9,628,051.44 | 231,548.52 | AE47A |
| 39 | 9,627,066.85 | 231,433.66 | AE48 |
| 40 | 9,626,361.50 | 230,972.97 | AE49 |
| 41 | 9,625,708.82 | 231,009.64 | AE50 |

| | | | |
|----|--------------|------------|---------------------|
| 42 | 9,625,007.45 | 230,364.84 | AE51 |
| 43 | 9,623,168.35 | 230,185.25 | AE52 |
| 44 | 9,621,783.90 | 230,771.25 | LEMUGUR S/S; ARUSHA |