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Date: 5 February 2025 Direct Line: 27 (0) 12 844 800

Email: ProcurementHO03@sanral.co.za Website: www.nra.co.za

BUILDING SOUTH AFRICA THROUGH BETTER ROADS

Dear Tenderers

PROVISION OF ELETRICAL ROUTINE MAINTENANCE FOR ELECTRICAL LIGHTING INFRASTRUCTURE: PACKAGE 1 CITY OF TSHWANE -
NRA:2024/1354

PROVISION OF ELETRICAL ROUTINE MAINTENANCE FOR ELECTRICAL LIGHTING INFRASTRUCTURE: PACKAGE 2 CITY OF JOHANNESBURG-
NRA 2024/1355

PROVISION OF ELETRICAL ROUTINE MAINTENANCE FOR ELECTRICAL LIGHTING INFRASTRUCTURE: PACKAGE 3 CITY OF EKURHULENI -
NRA 2024/1356

QUESTION AND ANSWER

CLOSING DATE: 24 FEBRUARY 2025

CLOSING TIME: 12:00 PM

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	REFERENCE	QUESTION	SANRAL ANSWER
1		Is the Professional Indemnity required for this tender?	No, tenderers are required to submit public liability insurance
2		How many contractors will be appointed for each project?	Each project requires one main contractor.
3		Is there site visit compulsory?	No.
4		**Under form B6, are we required to submit CVs of the proposed team**?	No, the B6 form must be used to demonstrate teams experience, bidders must ensure the form is duly completed.
5		In terms of the resources can the same construction manager & contract manger be appointed on two projects?	No each construction manager/contract manager must have its construction manager.
6		Which experience is required?	Electrical projects/work must be demonstrated as experience.
7		Are alternative personnels required now or after award?	The alternative personnel are required award.
8		Is this tender for Construction or Consulting? based on the resources required.	This tender is for the appointment of the main Contractor.
9		Which form is A15	Form A15 replaced with Form B7 on the BOQ
10		Is L4 type LED not applicable	L4 Not applicable

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12		**LIFE CYCLE COSTS – TYPE A1 LIGHTING CATEGORY (L1-A Simulation)** Costs are to be shown for 1 km of A1 Lighting with median (maximum traffic of >900 vehicles per hour per lane at night) to SANS 10098 and shall comply with Ln=>2.0cd/m² , Uo =>0,4 , Ul =>0,7 , TI =<15% for a road width of 42m. Mounted on parapet in centre median. On the previous tender, definite parameters were given for the lighting designs which are not mentioned in this document. This includes the points shown below Road width 42m How many lanes? Lane width? How many emergency lanes? Width? Mounting Height Not mentioned Arrangement Not mentioned Luminaire Type Not mentioned (Is it Type L1 225W as specified in BOQ) Spacing Not mentioned As this is a maintenance contract & the height & spacing of the poles are already determined, the above factors contribute to ensuring a compliant design. It is possible that other manufacturers that have not been dealing with SANRAL & do not fully comprehend the requirements may try to submit a lighting design at lesser spacing than already exists in order to comply or use a luminaire with a higher wattage that has not been approved by SANRAL	Refer to the circulated Form B7 and excel spreadsheet for life cycle cost.

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		The width of the road & the number of lanes is very necessary as this can affect not only the Ul (longitudinal uniformity ratio) but the Uo (overall uniformity ratio) as well. The mounting height of the existing poles is usually about 20m high for the typical L1-A simulation spaced at 50-55m apart Life Cycle Cost was previously done on an Exel spreadsheet to ensure that all submissions are the same (previous spread sheet attached	

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13		LIFE CYCLE COSTS – TYPE A1 LIGHTING CATEGORY (L2 Simulation) Costs are to be shown for 1 km of A2 Lighting without median (maximum traffic of >600 vehicles per hour per lane at night) to SANS 10098 and shall comply with Ln=>1.5cd/m² , Uo =>0,4, Ul =>0,7, TI =<20% for a road width of 14.0m. On the previous tender, definite parameters were given for the lighting designs which are not mentioned in this document. This includes the points shown below Road width 14m How many lanes? Lane width? How many emergency lanes? Width? Mounting Height Not mentioned Arrangement Not mentioned Luminaire Type Not mentioned (Is it Type L2 150W as specified in BOQ) Spacing Not mentioned **As this is a maintenance contract & the height & spacing of the poles are already determined, the above factors contribute to ensuring a compliant design.** It is possible that other manufacturers that have not been dealing with SANRAL & do not fully comprehend the requirements may try to submit a lighting design at lesser spacing than already exists in order to comply or use a luminaire with a higher wattage that has not been approved by SANRAL	Refer to the circulated Form B7 and excel spreadsheet for life cycle cost.

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		The width of the road & the number of lanes is very necessary as this can affect not only the Ul (longitudinal uniformity ratio) but the Uo (overall uniformity ratio) as well. The mounting height of the existing poles is usually about 10m high for the typical L2 simulation spaced at 40-45m apart Life Cycle Cost was previously done on an Exel spreadsheet to ensure that all submissions are the same (previous spread sheet attached**).**	

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14		**LIFE CYCLE COSTS – TYPE A1 LIGHTING CATEGORY (L2 Simulation)** Costs are to be shown for 1 km of A2 Lighting without median (maximum traffic of >600 vehicles per hour per lane at night) to SANS 10098 and shall comply with Ln=>1.5cd/m² , Uo =>0,4, Ul =>0,7, TI =<20% for a road width of 14.0m. On the previous tender, definite parameters were given for the lighting designs which are not mentioned in this document. This includes the points shown below Road width 14m How many lanes? Lane width? How many emergency lanes? Width? Mounting Height Not mentioned Arrangement Not mentioned Luminaire Type Not mentioned (Is it Type L2 150W as specified in BOQ) Spacing Not mentioned As this is a maintenance contract & the height & spacing of the poles are already determined, the above factors contribute to ensuring a compliant design. It is possible that other manufacturers that have not been dealing with SANRAL & do not fully comprehend the requirements may try to submit a lighting design at lesser spacing than already exists in order to comply or use a luminaire with a higher wattage that has not been approved by SANRAL	Refer to **circulated** **F**orm B7 and excel spreadsheet for life cycle cost.

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		The width of the road & the number of lanes is very necessary as this can affect not only the Ul (longitudinal uniformity ratio) but the Uo (overall uniformity ratio) as well. The mounting height of the existing poles is usually about 10m high for the typical L2 simulation spaced at 40-45m apart Life Cycle Cost was previously done on an Exel spreadsheet to ensure that all submissions are the same (previous spread sheet attached).	

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15		On page 44 under Part D Contract Participation Goals (CPG) , what is the percentage required for subcontracting is 35% or 25%?	**The minimum percentage for subcontracting is 30%.**
16		What is the Employer looking for in terms of the Asset Maintenance Management System (AMMS) tool, the document is not clear what is the expectation of this AMMS tool.	It is a maintenance tool that the contractor needs to develop when maintaining the assets similar to computerized maintenance management system CMMS.
17		C3.2.1.1.3 on Book 3 you are indicating that we must make provision of quote for the following: **1.** Bakkies **2.** Housing for engineers and site personnel How many engineers are required and how many bakkies are required? How do we price the items?	Tenderers not to include bakkie (4x2) for supervision team. Supervisory staff that needs to be accommodated are 4 personnel
18		On page 44, Accommodation of traffic, how many lane closures you expecting to have in one day. If I can just have a clarity on that?	The lane closures will be determined by the maintenance program refer to asset list that needs to be maintained per package. The contract rate shall include full compensation for complying with SARTSM.
19		Cause C3.2.1.7 on page 124 Security guards how many unit guards are required The one unit is equals to 60 cards. However, in your BOQ it states that the one unit is equals to 20 cards. Now the question is one unit is it's 20 cards or one unit? Is it 60 cards?	**The number guards required is 20 guards as per the BOQ**, however the number may change and the quantities will be discussed with the recommended tenderer.

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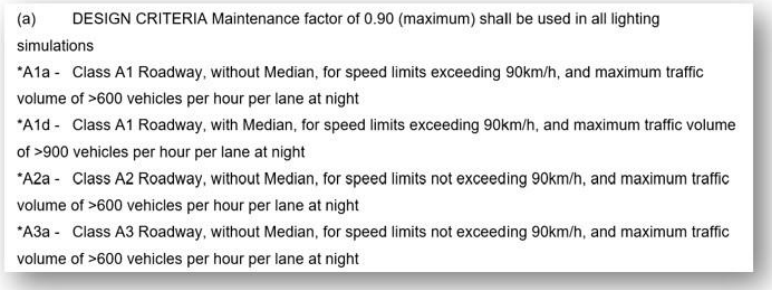
20		**Subcontracting to Targeted Enterprises**: The contract document specifies that a minimum of 30% must subcontracted to a Targeted Enterprise. Where should this requirement be indicated in the returnable schedules? Alternatively, is this only necessary once a tenderer has been awarded a position on the panel/considered for a project once on the panel?	Subcontracting requirements (if applicable) will become a condition of contract. This process will be concluded with the appointed tenderer during the mobilization phase. Further refer to question and answer number number 15.
21		To submit accurate simulation reports with reference to below snippet from the attached FORMS document "FORM B7 : LIGHTING DESIGN PROPOSAL AND LIFE CYCLE COST" we need more information than just the lighting criteria for each simulation. We need additional information such as QTY of luminiares per pole, Pole spacing, Mast or pole MH, Max spigot length, Maximum spigot raking angle, offset from edge of road, calculation surface type, mounting surface description  (a) DESIGN CRITERIA Maintenance factor of 0.90 (maximum) shall be used in all lighting simulations *A1a - Class A1 Roadway, without Median, for speed limits exceeding 90km/h, and maximum traffic volume of >600 vehicles per hour per lane at night *A1d - Class A1 Roadway, with Median, for speed limits exceeding 90km/h, and maximum traffic volume of >900 vehicles per hour per lane at night *A2a - Class A2 Roadway, without Median, for speed limits not exceeding 90km/h, and maximum traffic volume of >600 vehicles per hour per lane at night *A3a - Class A3 Roadway, without Median, for speed limits not exceeding 90km/h, and maximum traffic volume of >600 vehicles per hour per lane at night	Refer to circulated Form B7 and excel spreadsheet for life cycle cost.

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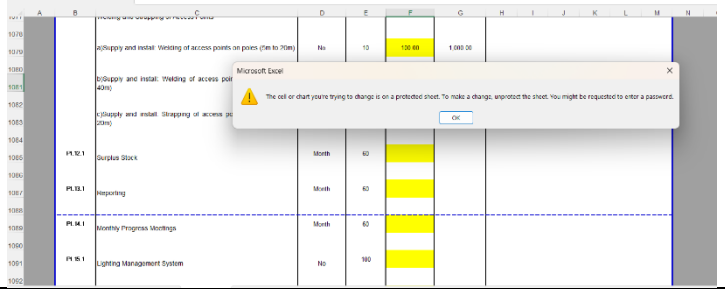
22		In the online meeting there was to be an amendment / addendum to the lighting designs, Form B7 Can you possibly assist me with that as I can't seem to find it in the new document	Refer to circulated Form B7 and excel spreadsheet for life cycle cost.
23		Please assist with the with clarification for Form B7, Design criteria for the L1, L2, L3 & L4 is not attached with the document -	Refer to revised form B7 and excel spreadsheet for life cycle cost.
24		Please be advised that the pricing cells from line **1081 to line 1095 are locked on all three BOQs. See attached print screen.** 	**The BOQ has unlocked, re down the BOQ from the website.**

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25		with reference to below snippet from the attached FORMS document “FORM B7 : LIGHTING DESIGN PROPOSAL AND LIFE CYCLE COST” we need more information than just the lighting criteria for each simulation. We need additional information such as QTY of luminiares per pole, Pole spacing, Mast or pole MH, Max spigot length, Maximum spigot raking angle, offset from edge of road, calculation surface type, mounting surface description, number of lanes, width of lanes, width of EMG lanes etc.	Refer to circulated Form B7 and excel spreadsheet for life cycle cost.
26		Could you please clarify whether "similar" refers strictly to lighting projects, or if it encompasses any work within the engineering space	Any work within electrical engineering space.

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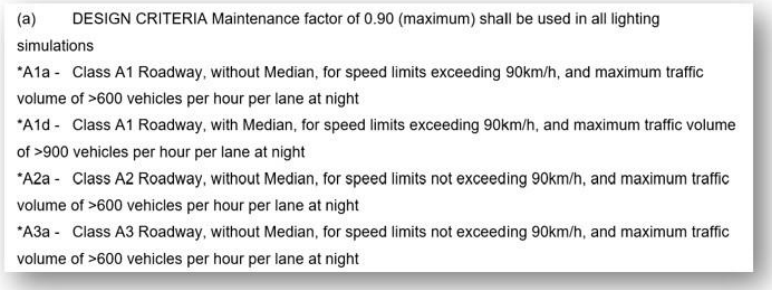
27		To submit accurate simulation reports with reference to below snippet from the attached FORMS document "FORM B7 : LIGHTING DESIGN PROPOSAL AND LIFE CYCLE COST" we need more information than just the lighting criteria for each simulation. We need additional information such as QTY of luminiares per pole, Pole spacing, Mast or pole MH, Max spigot length, Maximum spigot raking angle, offset from edge of road, calculation surface type, mounting surface description, number of lanes, width of lanes, width of EMG lanes etc.  (a) DESIGN CRITERIA Maintenance factor of 0.90 (maximum) shall be used in all lighting simulations *A1a - Class A1 Roadway, without Median, for speed limits exceeding 90km/h, and maximum traffic volume of >600 vehicles per hour per lane at night *A1d - Class A1 Roadway, with Median, for speed limits exceeding 90km/h, and maximum traffic volume of >900 vehicles per hour per lane at night *A2a - Class A2 Roadway, without Median, for speed limits not exceeding 90km/h, and maximum traffic volume of >600 vehicles per hour per lane at night *A3a - Class A3 Roadway, without Median, for speed limits not exceeding 90km/h, and maximum traffic volume of >600 vehicles per hour per lane at night	Refer to the circulated Form B7 and excel spreadsheet for life cycle cost.
28		Please assist with the with clarification for Form B7, Design criteria for the L1, L2, L3 & L4 is not attached with the document -	Refer to the circulated Form B7 and excel spreadsheet for life cycle cost.

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29		Please confirm the correct Contract Numbers: • SANRAL CONTRACT NO: X.002-206-2025/9 – Package 1 • SANRAL CONTRACT NO: X.002-206-2025/9 – Package 2 • SANRAL CONTRACT NO: X.002-208-2025/9 – Package 3	The contract number as follows: • **X.002-206-2025/9 – Package 1 City of Tshwane** • **X.002-207-2025/9 – Package 2 City Johannesburg** • **X.002-208-2025/9 – Package 3 City of Ekurhuleni** Where they are discrepancies on each package, refer above for clarity.
30		Please confirm that the correct pricing schedules are attached to the correct tender package documents, currently: a. For Tender NRA:2024/1354, Package 1, the pricing schedule indicates that it is Package 3 pricing schedule, is this correct? b. For Tender NRA:2024/1356, Package 3, the pricing schedule indicates that it is Package 1 pricing schedule, is this correct?	Refer to question and answer 23. Each package has its own BOQ. Furthermore, refer to question and answer no 28 above.

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31		Please confirm the correctness of the summary page in the Excel pricing schedule documents which indicate, as these values are to be transferred to C2.2 form and Form of Offer C1.1.1. Excel Summary indicates the following: a. SECTION A - CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS b. SECTION B - ACCOMMODATION OF TRAFFIC c. SECTION C - ELECTRICAL MAINTENANCE WORKS d. SECTION D - STAKEHOLDER AND COMMUNITY LIAISON While, the summary page in BOOK 2, PART C2: PRICING DATA, C2.2 SUMMARY OF PRICING SCHEDULE indicates: a. SCHEDULE A: PRELIMINARY AND GENERAL b. SCHEDULE B: ELECTRICAL WORKS c. SCHEDULE D: STAKEHOLDER AND COMMUNITY LIAISON	Corrected SCHEDULE A: PRELIMINARY AND GENERAL SCHEDULE B: ACCOMODATION OF TRAFFIC SCHEDULE C: ELECTRICAL WORKS SCHEDULE D: STAKEHOLDER AND COMMUNITY LIAISON
32		Per T1.2 TENDER DATA, Sub-Clause C.2.3 [Check Documents], we confirm that the tender document packages are not complete, document format issues, references to documentation not made available, incorrect contract number reference, simulation criteria omissions, pay item description omissions.	Document uploaded with updated BOQ

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33		Per T1.2 TENDER DATA, Sub-Clause C.2.6 [Acknowledge addenda], at least one addenda was issued in the form of revised packages being issued. How a tenderer to acknowledge this, what form is to be used? How is it to be communicated to the Employer?	There was no addendum issued , as it was stated in the tender clarification meeting that documents had formatting issues which did not warrant an addendum.
34		Per T1.2 TENDER DATA, Sub-Clause C.2.8 [Seek clarification] and Sub-Clause C.3.2 [Issue Addenda] a. "The employer will respond to requests for clarification **received up to 8 working days** before the tender closing time" b. "The employer shall issue addenda **until 10 (ten) working days** before tender closing date." c. Will an addenda be issued after the last day permitted for clarifications? d. Should Sub-Clause C.3.2 [Issue Addenda] perhaps be amended to state **"until 5 (five) working days"** as this permits a response from the Employer after the last clarifications are received?	Addendum issued with extension

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35		Per T1.1 TENDER NOTICE AND INVITATION TO TENDER, it is stated that "Tender includes compulsory sub-contracting of a minimum of 30% of the contract value to Targeted Enterprises as defined in Part D." c. Yet per C1.2.2 CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER, Sub-Clause Part D, Contract Participation Goals (CPG), it stipulates: i. Min 30% of contract value to be sublet to Targeted Enterprises, with 1. Minimum of 10% to a maximum 15% of the Contract Value must be advertised for CIDB level 1 to 2 in the Target Area. Maximum package duration 18 months without the option to extend. 2. Minimum of 25% of Contract Value must be advertised for CIDB level 3 to 5. Maximum package duration 30 months. 3. These add up to a minimum of 35% and 30% d. Please clarify how the percentage split (10% and 25%) reaches the overall 30% minimum criteria or indicate what the amended values are to be.	Question and Answer no 15 above.

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36		Per T1.2 TENDER DATA, Sub-Clause C.3.11 [Evaluation of tender offers], a) Where under C.3.11, Stage 2 Mandatory Administration Criteria: key personnel are indicated to only comply to the following minimum criteria: i. Contract Manager has an active professional registration with Engineering Council of South Africa as Electrical Professional Engineer or Professional Technologist/ SACPCMP as Construction Manager/ Construction Project Manager. ii. Construction Manager has an active professional registration with Engineering Council of South Africa as Electrical Professional Engineer or Professional Technologist SACPCMP as Construction Manager/ Construction Project Manager. iii. Construction Health and Safety Officer (CHSO) has an active registered as CHSO with SACPCMP. iv. Targeted Group Development Coordinator has NQF5 in Electrical Engineering. v. Registered Installation Electrician has NQF5 in Electrical Engineering. b. C.3.11 does not stipulate the years of experience necessary for key personnel, thus the indication of experience does not form part of the mandatory criteria for evaluation and cannot be evaluated further. c. Furthermore the qualification requirements stipulated under Stage 2 deviate from the requirements stipulated in Stage 3: Functionality /Technical Evaluation, where: i. Contract Manager: Electrical Engineering qualification -NQF7 or higher degree	Comment noted, the evaluation remain as outlines in the document.

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		ii. Construction Manager: Electrical Engineering qualification -NQF7 or higher degree iii. Construction Health and Safety Officer: (Health and Safety National Diploma/ NQF6 or higher iv. Targeted Group Development Coordinator: Electrical Engineering qualification -NQF 6 v. Registered Installation Electrician: Electrical Engineering qualification -NQF 6 d. These Key Personnel Criteria continue to vary in: i. FORM B5 – KEY PERSONNEL EXPERIENCE ii. BOOK 3, C3.1.17 PERSONNEL REQUIREMENTS, C3.1.17.2 Minimum requirements 1. Here only 3 projects of experience is necessary e. May the personnel experience be amended to a maximum of 3 projects (as this is what is expected of the company), as it restricts bidders and personnel resources to ensure personnel have exposure to high value electrical projects with as many as five Projects with a construction value of R60 million and above (Inclusive of VAT) with a 15 year period? Perhaps amend company experience to a maximum of 5 projects	

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37		Per PART T2: RETURNABLE SCHEDULES, Form A12- PREFERENCING SCHEDULE - TENDERER'S B-BBEE VERIFICATION Please indicate where we find "Returnable Schedule Form C1" that is referenced	C1 refer to the Form of offer and Acceptance . refer to C.1.1 on Book 2.
38		Per PART T2: RETURNABLE SCHEDULES, Form A18 - TENDERER'S REGISTERED FINANCIAL SERVICE PROVIDER LETTER AND BANK DETAILS a. Please confirm if this form is to be completed as the word document does not have this form scratched out, yet this form in BOOK 1 is scratched out?	This form not applicable
39		Per PART T2: RETURNABLE SCHEDULES, Form A20 - DECLARATION OF TENDERER'S FINANCIAL SUBMISSION e. Please confirm where these references may be found: D1009, D1003, M200, M300, M400, M600, M7100, M7200, M1000? f. Are points 7 and 8 of Form A20 (No subcontracting shall be allowed unless it follows the Part D subletting process.) not in contradiction with Form B5?	Refer to Part D of the tender document and COTO standards
40		Per PART T2: RETURNABLE SCHEDULES, Form B4 - CONFIRMATION OF PROFESSIONAL INDEMNITY a. Is this form valid? b. If so, how is it meant to be applied to the Tenderer / Contractor?	Refer to question and answer no 1 above.

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41		Per PART T2: RETURNABLE SCHEDULES, Form B5, a. Is it meant to be SCHEDULE OF SPECIALIST SUBCONTRACTORS or SCHEDULE OF SUBCONTRACTING?	This form is for **SCHEDULE OF SPECIALIST SUBCONTRACTORS.**
42		Per PART T2: RETURNABLE SCHEDULES, Form B7 - LIGHTING DESIGN PROPOSAL AND LIFE CYCLE COST a. Please provide the following information: i. Revised Form B7 as indicated in the Briefing Schedule ii. Lighting Design Criteria iii. Confirmation of the Luminaire types, is it: 1. L1 = 225W 2. L2 = 150W 3. L3 = 300W iv. That we need to submit 4 luminaire options for each type? If so, will the rate in the BoQ be required to cover all costs for all four options?	**Refer to B7 Form**

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43		Per PART C1: AGREEMENTS & CONTRACT DATA, APPENDIX TO THE PARTICULAR CONDITIONS: CONTRACT PRICE ADJUSTMENT SCHEDULE, a. It is indicated that for a Contract making use of ELECTRICAL MATERIAL, P0151.1, Table 5, that for Contract Price Adjustment: i. "M" is the "Materials Index" and shall be the price index for the **"Civil Engineering Materials"** product specified in the Appendix to Tender, as published in the Statistical Release P0151.1, Table 6, of Statistics South Africa. b. And contained within C1.2.2 CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOY, Sub-Clause PC13.8, Adjustments for Changes in Cost, "M" is indicated as "Electrical Engineering Street lighting infrastructure material (excl. Bitumen)", yet still referenced P0151.1 Table 6 and not Table 5. c. Please confirm what the correct MATERIAL INDEX is to be, we would recommend Table 5 as being the most correct for the works and material being procured.	Table 5 :Mechanical and electrical engineering input price indices.

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44		Per PART C2: PRICING DATA, C2.2 PRICING SCHEDULE a. Please provide a pay item description for pay item i. ACCOMODATION OF TRAFFIC, C3.2.1.2.3 Provision of Accommodation of Traffic Month 60 ii. C3.2.1.6.4.1, EXTRA WORK AND DAYWORKS 1. s) Fault location of faults on 3.3kV cable with approved fault locator iii. C3.2.1.6.4.2 Dayworks Schedule 1. e) Locating Cable Fault * b. Please confirm that the rates for the following pay items are fixed irrespective of variances on Site and Materials Proposed or required to manufactured i. C3.2.1.6, EXTRA WORK AND DAYWORKS, C3.2.1.6.4.1 (C3.2.1.10.4.1), t) Luminaires ii. C3.2.1.4, REPLACEMENT OF EQUIPMENT AND UPGRADING 1. (C3.2.1.4.4.2) B) Replacement masts/pole complete without luminaires 2. (C3.2.1.4.4.3) Replacement complete luminaires c. Please clarify the pay item description for: i. C3.2.1.4.4.7 On site cold Galvanizing of poles 1. Is it for the whole pole? ii. Where the pay item description varies as such: 1. C3.2.1.4.4.7 Galvanizing on **link** poles	i)Pay item description provided ii) Fault location of faults with accepted fault location methods and calibrated fault locator devices**. Refer to SANS 10198-13** iii) Fault location of faults on all type and size with accepted fault location methods and calibrated fault locator devices. The unit of measurement shall be the number of hours, or parts thereof, to successfully locate a cable fault, subject to a maximum charge of 8 hours per fault, thereafter the charge shall be for the Contractor's own account.. All works and accessories required to undertake the fault finding and successfully locate the fault are all inclusive in the contract rate. **Refer to SANS 10198-13** b. i) Fixed ii) Fixed C i)Whole pole however if it happens that the contractor galvanized a portion of the pole, a rate will be determined then but wont be paid for the entire pole.

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		2. The unit of measurement shall be the number of galvanising on **link** poles at various locations. The tendered rate shall include full compensation for galvanizing **on link** poles at any location on the entire route of the site as instructed by the Engineer and shall be expended in accordance with the provisions of Sub-Clause 13.5 of the General Conditions of Contract	

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45		Per PART C3: SCOPE OF WORK, C3.1.9.3 COMPLETION TIME OF SPECIFIED ACTIVITIES AND PENALTIES, PENALTIES a. It is indicated that "As per penalty measurements, penalties can be applied for non-compliance under each category thus equating to a maximum of R 20 000.00 per month at each site." b. Yet, there are penalties in excess of R20 000, thus this maximum limit appears to be incorrect? c. The referral to "each Site" is for each Package, the entire site and not each road section contained within the Site?	The Maximum is R500 0000 per month .
46	Clause Part D on page 40 of BOOK 2 & 3, :"Min 30% of contract value to be sublet to Targeted Enterprises. Minimum of 10% to a maximum 15% of the Contract Value must be advertised for CIDB level 1 to 2 in the Target Area. Maximum package duration 18 months without the option to extend. Minimum of 25% of Contract Value must be advertised for CIDB level 3 to 5. Maximum package duration 30 months.	The minimum values of the two sub-targets (10% & 25%) do not add up arithmetically to the minimum value of the overall target of 30%, **therefore, please advise how we are to interpret this information.**	Minimum subcontracting work is 30% that the contractor needs to comply with however the contractor can subcontract more than that.

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47	PART C3: SCOPE OF WORK, Page 17 (C2-17), sub-clause 11,: "The Contractor shall be responsible for establishing, operating, maintaining, and managing an Asset Maintenance Management System (AMMS) tool. The tool shall be used by all Contractor Personnel to account for and record all Job Cards and works on site, to provide efficient and sustainable asset management, accurate and routine reporting, sustainable and routine maintenance with reduced downtime and optimised resource allocation. It shall form part of the Contractor's quality control and management system and ITIS. The AMMS shall be fully accessible to the Employer and Engineer."	a) What exactly is required? b) Is this system to operate on any particular software platform? c) If yes to b), which platform (Microsoft, Linux, Unix, etc)? d) The tool referred to, please indicate which software application you would approve (Maximo, SAP EAM, eMaint or other)? e) Must the system/s referred in Point c & d above integrate with ITIS?	Asset management tool that the contractor should use Yes Any platform that the contractor may propose Any application however the employer/ engineer should have access to it. Yes

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48	PART C3: SCOPE OF WORK, C3.2.1 ELECTRICAL PREVENTATIVE MAINTENANCE SPECIFICATION, C3.2.1.1 CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS, C3.2.1.1.3 MEASUREMENT AND PAYMENT, Page 43 (C2-43),: "Housing and office/s for the Engineer's site personnel to be fully furnished which shall include full burglar proofing, electric refrigerator, air-conditioning, work station/s including desk and chair with drawers, laptop/s, photostat facilities, scanner, cellphones with airtime (similar or equal business talk 500) to make and receive calls, including proper shower facilities, 4x2 bakkie to be used on site including fuel, 3G/Wifi internet access, etc. In addition, the offices and any living accommodation are to be separated by at least 200m."	a) Will the Contractor be required to provide both housing and office/s for the Engineer's site personnel? b) b) If yes to a), how many members of staff and where will need to be housed, and how many square meters of office facilities are to be provided? c) If required, how many cellphones, bakkies must be provided?	Only Offices no housing accommodation Supervisory staff that needs to be accommodated are 4 personnel No cellphone , 4x2 bakkie that needs to be provided by the contractor for supervisory staff.

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49	Scope of work for Item C3.2.1.2.3 Provision of Accommodation of Traffic in the Bill of Quantities (BOQ) is described, under PART C3: SCOPE OF WORK, C3.2.1 ELECTRICAL PREVENTATIVE MAINTENANCE SPECIFICATION, C3.2.1.2 ACCOMMODATION OF TRAFFIC, C3.2.1.2.3 PROCEDURES FOR THE ACCOMMODATION OF TRAFFIC. It is noted that the unit for this item in the BOQ is "Month".	a) If indeed this item is to be priced on a monthly basis, how many Provision of Accommodation of Traffic (lane closures) will be required on a daily basis? b) What is the maximum amount of simultaneous lane/road closures (attenuator trucks required) to be undertaken at any one time, as the plant & equipment required to perform a lane closure costs in the order of R1,2mil per attenuator truck? In other words, how many attenuator trucks are required per Contract? c) Is the lane closure monthly rate only applicable to preventative maintenance activities, as it is found under the scope of works and specification for item C3.2.1 ELECTRICAL PREVENTATIVE MAINTENANCE SPECIFICATION? d) If Yes to c), how are we to price for Provision of Accommodation of Traffic activities which are not part of "ELECTRICAL PREVENTATIVE MAINTENANCE", e.g. Extra works and Dayworks, Replacement and Upgrading of Equipment, etc?	a)Tenderers will be required to determine the lane closure based on the Asser list and maintenance program b)Tenderers will be required to determine the lane closure based on the Asset list and minimum work teams that is required to fulfill contractual obligation. c)No, the lane closure is applicable to all works as per C3 scope of works, eg planned, unplanned and repair works .

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50	Item C3.2.1.7.2.1 A) Provide Grade "C" security guards 2 Units/Month (1 unit = 20 guards) in the Bill of Quantities (BOQ) specifically states "1 unit = 20 guards". This item is described in part, under PART C3: SCOPE OF WORK, C3.2.1 ELECTRICAL PREVENTATIVE MAINTENANCE SPECIFICATION, C3.2.1.7 REQUIREMENTS FOR PROVISION OF SECURITY C3.2.1.7.2.1 Provide Grade “C” security guards, as "1 unit = 60 guards."	a) Please confirm whether 1 unit is equal to 60 guards (as per Scope of Works) or 1 unit is equal to 20 guards (as per BOQ)? b) Please confirm how many units are required per any 24-hour day?	The number guards required is 20 guards as per the BOQ, however the number may change and the quantities will be discussed with the recommended tenderer.

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51	It is stated in part, under PART C3: SCOPE OF WORK, C3.2.1 ELECTRICAL PREVENTATIVE MAINTENANCE SPECIFICATION, C3.2.1.8 GENERAL ELECTRICAL SPECIFICATIONS, ELECTRONIC AND MANNED SECURITY, PI.17.1 Security Guarding & Armed Response, the following: "The contractor to provide minimum two (2) armed security guards per shift to provide on-site security for assets on a 24 hour, 7 day basis. Security guards are to be appropriately trained and certified to patrol the project area. All security guards to be SASSETA trained and certified and registered with PSIRA. C2-154 154 NRA 2024/1356 PROVISION OF ELECTRICAL ROUTINE MAINTENANCE FOR ELECTRICAL LIGHTING INFRASTRUCTURE: PACKAGE 3 CITY OF EKURHULENI The security guards are to conduct intermittent patrols through and around the site and report any incidents or potential incidents to a security control room.	Please confirm that this item is an additional item over and above that of item "C3.2.1.7.2.1 A) Provide Grade "C" security guards...". Please provide clarity as to where, how and when these armed guards are to be deployed on site. Please provide further clarity as to the resources that these guards are to be equipped with.	it is not. Guards are deployed as per contractor risk assessment which will vary depending on the identified hotspot areas. Refer to PSIRA for grade C security A Grade C's main function is access control of a higher risk area and supervision of lower grade security officer. Execution of threat and crime prevention patrols and response to incidents and hotspot areas. Visiting, inspection, monitoring and patrolling sites at semi-regular intervals and not in a specific sequence, to detect the presence of unauthorized person, suspicious activities, threats or occurrences that may endanger personnel or result in damage of assets. Prevention of unauthorized removal of assets from sites.

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	The security guards are to have suitable and reliable communication means to the security company. The security company must have a 24 hour, 7 day manned control room. Response to any vandalism or irregular activities within the project area must be responded to with the appropriate armed response. The security company shall also notify the local SAPS office, SANRAL and any other authorised 3rd party of any confirmed intrusions, break-ins, and any incidents of vandalism or theft. Weekly and monthly reports are to be provided to the Client/ Engineer with event logs. Should there be electronic security systems installed within the project, the security company will be required to monitor and respond to triggered alarms. Automated SMS / e-mail alarm notifications would be sent to the security company control room from either SANRAL or 3rd party monitoring company. All on-site security staff, armed response, on-		

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	site toilet and guard hut are to be included in the rates."		

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	T1.2 TENDER DATA, Clause Number C.3.11 Evaluation of tender offers, Stage 2 Mandatory Administration Criteria: f), it describes the criteria that will be used for the "Contract Manager" as follows: "Contract Manager has an active professional registration with Engineering Council of South Africa as Electrical Professional Engineer or Professional Technologist/ SACPCMP as Construction Manager/ Construction Project Manager."	Does the wording "active professional registration with Engineering Council of South Africa as Electrical Professional Engineer or Professional Technologist/ SACPCMP as Construction Manager/ Construction Project Manager." indicate that this person is to have EITHER an active Professional Engineer registration OR an active Professional Technologist registration OR an active SACPCMP registration as Construction Manager/ Construction Project Manager for the position of either Contracts Manager or Construction Manager? The Engineering Council of South Africa also allows professional registration for professional technicians as Pr Techni (Professional Technician). Does a professional who is registered as a Pr. Techni (NQF6) ALSO qualify for the position of Contract Manager and/or Construction Manager?	Yes No

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53	FORM B7 contains information related to LIGHTING DESIGN PROPOSAL AND LIFE CYCLE COST, which is required to be completed and submitted.	Additional information is required to enable the calculation, simulation and submission of a Lighting Design Proposal and Life Cycle Cost of same, an example of which is attached below as "Lighting Design Example", as follows: a. QTY of luminiares per pole; b. Pole spacing; c. Mast or pole MH; d. Max spigot length; e. Maximum spigot raking angle; f. Offset from edge of road; g. Calculation surface type; h. Mounting surface description; i. Number of lanes; j. Width of lanes; k. Width of EMG lanes"	Refer to Form B7 and excel spreadsheet for life cycle cost.
54	NRA 2024/1354 X.002-206-2025/9 BOQ C3.2.1.2.3 Provision of Accommodation of Traffic.	The Rate cell is locked. Please unlock so we can insert the rate.	BOQ uploaded
54	NRA 2024/1355 X.002-207-2025/9 BOQ C3.2.1.2.3 Provision of Accommodation of Traffic.	The Rate cell is locked. Please unlock so we can insert the rate.	BOQ uploaded
55	NRA 2024/1356 X.002-208-2025/9 BOQ C3.2.1.2.3 Provision of Accommodation of Traffic.	The Rate cell is locked. Please unlock so we can insert the rate.	BOQ uploaded

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56	NRA 2024/1354 X.002-206-2025/9 SECTION C2.1 COTO CHAPTER 2 SECTION C2.1	The total carried to the summary page is incorrect. (Please correct carried forward and brought forward amounts by adding them in your subtotals	BOQ uploaded
57	NRA 2024/1355 X.002-207-2025/9 SECTION C2.1 COTO CHAPTER 2 SECTION C2.1	The total carried to the summary page is incorrect. (Please correct carried forward and brought forward amounts by adding them in your subtotals)	BOQ uploaded
58	NRA 2024/1356 X.002-208-2025/9 SECTION C2.1 COTO CHAPTER 2 SECTION C2.1	The total carried to the summary page is incorrect. (Please correct carried forward and brought forward amounts by adding them in your subtotals)	BOQ uploaded
59	NRA 2024/1354 X.002-206-2025/9 SECTION C3.2.1.3 PREVENTATIVE MAINTENANCE	The total carried to the summary page is incorrect. (Please correct carried forward and brought forward amounts by adding them in your subtotals)	BOQ uploaded
60	NRA 2024/1355 X.002-207-2025/9 SECTION C3.2.1.3 PREVENTATIVE MAINTENANCE	The total carried to the summary page is incorrect. (Please correct carried forward and brought forward am	BOQ uploaded
61	NRA 2024/1356 X.002-208-2025/9 SECTION C3.2.1.3 PREVENTATIVE MAINTENANCE	The total carried to the summary page is incorrect. (Please correct carried forward and brought forward amounts by adding them in your subtotals)	BOQ uploaded

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62	NRA 2024/1354 X.002-206-2025/9 BOQ SECTION 3.2.1.6 EXTRA WORK AND DAYWORK C3.2.1.6.4.1 (i) LV Cable joints, sleeves, ferrules CSA - 35 x 3 Core	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded
63	NRA 2024/1355 X.002-207-2025/9 BOQ SECTION 3.2.1.6 EXTRA WORK AND DAYWORK C3.2.1.6.4.1 (i) LV Cable joints, sleeves, ferrules CSA - 35 x 3 Core	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded
64	NRA 2024/1356 X.002-208-2025/9 BOQ SECTION 3.2.1.6 EXTRA WORK AND DAYWORK C3.2.1.6.4.1 (i) LV Cable joints, sleeves, ferrules CSA - 35 x 3 Core	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded
65	NRA 2024/1354 X.002-206-2025/9 BOQ SECTION 3.2.1.6 EXTRA WORK AND DAYWORK C3.2.1.6.4.1 (g) MV Cable joints - Transition Joint (Cu to Al)	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded

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66	NRA 2024/1354 X.002-206-2025/9 BOQ SECTION 3.2.1.6 EXTRA WORK AND DAYWORK C3.2.1.6.4.1 (g) MV Cable joints - Transition Joint (Cu to Al)	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded
67	NRA 2024/1355 X.002-207-2025/9 BOQ SECTION 3.2.1.6 EXTRA WORK AND DAYWORK C3.2.1.6.4.1 (g) MV Cable joints - Transition Joint (Cu to Al)	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded
68	NRA 2024/1356 X.002-208-2025/9 BOQ SECTION 3.2.1.6 EXTRA WORK AND DAYWORK C3.2.1.6.4.1 (g) MV Cable joints - Transition Joint (Cu to Al)	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded
69	NRA 2024/1354 X.002-206-2025/9 BOQ SECTION 3.2.1.7 REQUIREMENTS FOR PROVISION OF SECURITY PI.17.1 Security Guarding & Armed Response	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded

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70	NRA 2024/1355 X.002-207-2025/9 BOQ SECTION 3.2.1.7 REQUIREMENTS FOR PROVISION OF SECURITY PI.17.1 Security Guarding & Armed Response	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded
71	NRA 2024/1356 X.002-208-2025/9 BOQ SECTION 3.2.1.7 REQUIREMENTS FOR PROVISION OF SECURITY PI.17.1 Security Guarding & Armed Response	The amount for the item is blocked and does not pull through rate amount multiplied by qty.	BOQ uploaded
72	NRA 2024/1354 X.002-206-2025/9 BOQ C3.2.1.19 Welding and Strapping of Access Points b) Supply and install: Welding of access points on masts (20m to 40m) c)Supply and install: Welding of access points on masts (5m to 20m)	The rate cells are blocked, we cannot insert the rates.	BOQ uploaded

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73	NRA 2024/1355 X.002-207-2025/9 BOQ C3.2.1.19 Welding and Strapping of Access Points b) Supply and install: Welding of access points on masts (20m to 40m) c)Supply and install: Welding of access points on masts (5m to 20m)	The rate cells are blocked, we cannot insert the rates.	BOQ uploaded
74	NRA 2024/1356 X.002-208-2025/9 BOQ C3.2.1.19 Welding and Strapping of Access Points b) Supply and install: Welding of access points on masts (20m to 40m) c)Supply and install: Welding of access points on masts (5m to 20m)	The rate cells are blocked, we cannot insert the rates.	BOQ uploaded

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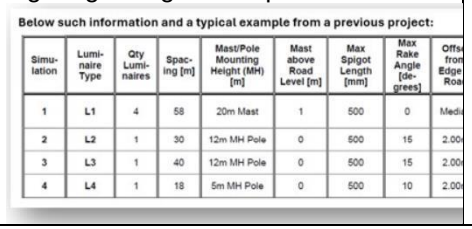
75	NRA 2024/1354 X.002-206-2025/9 NRA 2024/1355 X.002-207-2025/9 NRA 2024/1356 X.002-208-2025/9 BOQ PI.12.1 - BOQ PI.16.2 Lighting Design Example 	The rate cells are blocked, we cannot insert the rates.	BOQ uploaded

Below such information and a typical example from a previous project:

Simulation	Luminaire Type	Qty Luminaires	Spacing [m]	Mast/Pole Mounting Height (MH) [m]	Mast above Road Level [m]	Max Spigot Length [mm]	Max Rake Angle [degrees]	Offset from Edge Road
1	L1	4	58	20m Mast	1	500	0	Medi
2	L2	1	30	12m MH Pole	0	500	15	2.00
3	L3	1	40	12m MH Pole	0	500	15	2.00
4	L4	1	18	5m MH Pole	0	500	10	2.00