

QUESTIONS and ANSWERS – Batch 2

Tender Ref No	ORTIA7282/2023/RFP
Tender Description	Replacement of Navigational Aids Fibre Optic Cable within a Period of 12 Months at O R Tambo International Airport

IMPORTANT: Tenderers are required to acknowledge this Q&A in their tender submission in the table for RECORD OF ADDENDA TO TENDER DOCUMENTS

FOLLOWING ARE QUESTIONS RAISED BY BIDDERS AND ACSA's RESPONSE ACCORDINGLY:

Batch 2:

Q1. Kindly advise whether there will be a standardisation of the pricing schedule?

[Answer: The pricing schedule should be followed as per the addendum.](#)

Q2. The bill of materials specifies a length of 65Km of cable required, as multiple fibre cables/sleeves/ducts can run in the same trench, could you please specify the trenching distances required?

[Answer: Refer to C3.2.4.3 on the addendum](#)

As well as the Trenching specifications (there is reference made in the tender for in C3.2.4.3 Sleeves, for a trench depth of 500mm, but no trench width is specified)

[Answer: Refer to C3.2.4.3 on the addendum](#)

Item 3.3 on the BOM specifies 65m cubed meters of excavations this translates to less than 150m of linear trench distance, this item should be replaced with trenching distances required for

[Answer: cable trench dimensions. 300m wide, 1m deep and 65km long and this works out to 19.5 cubic meters of excavation. Please refer to section C3.2.4.3 of the addendum](#)

- normal soil trenching
- Intermediate rock trenching
- Hard rock trenching
- Concrete or Tar surfaces that need to be trenched such as Aprons (excl road/runway/taxiway crossings), Aprons can be drilled instead of trenched thus causing much less disruption.

[Answer: All taxiway crossing will be hard rock at a minimum depth of 1m. All excavations apart from taxiway crossing will be done on soft soil.](#)

Q3/ 3.3 of your pricing asks for 65 cubic meters of excavating but you ask for 65km of cable. Is this correct?

Answer: Refer amended BOQ attached.

Q4. Two-way radio - specifics so that don't interfere with ACSA

Answer: Two-way Radios must be below 1Mhz

Q5. Please confirm that the type of single mode fibre cable you require is the industry standard air-blown in micro ducts variety, section C3.2.4.1 Fibre Optic Cable states that the existing cable is armoured cable. If air blown cable is to be used what type of microduct is required? the different standard micro ducts can accommodate 1, 2, 4 or 7 separate fibre cables.

Answer: The specified fibre cable is rodent proof hence micro duct are not specified in the tender.

Q6. With reference to Ducts/Sleeves. The BOQ specifies

2.5	Supply Cable sleeves 110mmx6m	Each	15
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This would equate to only 90m in length well short of the requirement, this spec is usually for Corrugated 110mm sleeve, the standard used in the industry for trenches, could you confirm if you require the 110mm Corrugated sleeve or the 110mm HDPE solid sleeve with 10mm wall thickness as specified in section C3.2.4.3 Sleeves. The solid sleeve requires costly Butt-welding equipment. Normally the corrugated sleeve is used for trenching and the solid sleeve is use for Drilling routes.

Answer: Corrugated 110mm HDPE pipe with 4x4mm inner duct required for installation and this will be installed on the grass area.

Also refer addendum for more/revised information (Scope, BOQ)

Q7. ORTIA7282/2023/RFP indicates that respondents need to quote on 2 x 24 core rodent proof cable. Would 1 x 48 core rodent proof cable be considered in place of the 2 x 24 core.

Answer: only 2x24 core rodent proof cable will be accepted.

Q8. Regarding the Termination points, could you advise if the New OPS Substation (-26.137946826252787, 28.249978076644613) is the location of the central data centre, as the network diagram page on page 57 shows the "AGL Training Room" were most of the 24 core cable run from this "training room" to the termination points around the air field as indicated in your co-ordinate table. Each pair of 24 core cable we assume will run from the data centre (A end) to the termination points around the airfield (B end). Please indicate the A end and B end locations of all terminations.

Answer. Yes the new OPS substation and AGL Training room are in the same building. The network should be a ring topology linking all substation and all ILS shelters.

Q9. Please advise if a new BOQ will be issued stating the trenching distances that need to be priced, or must we amend the BOQ ourselves to reflect the trenching distances, all manholes, ducts, joints etc based on our own high level design and our own distance measures.

Answer: The BOQ has been amended to reflected quantities however the bidder has to price based on experience. An amended BOQ from a service provider would not be accepted.

Q10. As it stands the only trenching distances stated in 3.3 of the BOQ is 65m cubed of excavations, this is well short of what will be required. Do we amend the BOQ ourselves?

Answer. See section C3.2.4.3 on the addendum, the calculations have been detailed.

Q11. The BOQ states on item 2.5 a total of 90m of 110mm sleeve required, the actual will be in thousands of meters. Do we amend the BOQ ourselves?

Answer. The cable length is not equivalent to the number of sleeves required, the 2x24 core cables will be running parallel, making up the 65km length. Whilst the length of the cable is 65km, it is a combination of 2 x 24 core cable running in parallel. 65km length translates to 11 pieces of 6m HPDE pipe and we made allowance of 35 units of HDPE pipe.

Q12. The BOQ states on item 2.9 only 1 x pig tail, the actual will be around 700 units required. Do we amend the BOQ ourselves?

Answer. The unit of measure is sum thus it allows one to price accordingly.

Q13. No 7 way micro duct is specified in the BOQ, Do we amend the BOQ ourselves?

Answer. The type of specified fibre does not require micro ducts

Q14. Please specify QTY 110mm sleeves.

Answer: Refer Addendum for revised BOQs

Q15. What will the 2yr permit amount to and will all labourers need this?

Answer: Yes, Permits are required for all that are working on site. There is a Provisional Sum in the BOQ.

End