

**THE PROVISION OF THE PORT ROAD UPGRADE AND REHABILITATION PHASE 1: UPGRADE AND REHABILITATION OF URANIA, NEWARK, AND VENTURA CONCRETE ROADS WITHIN THE PORT OF RICHARDS BAY FOR A PERIOD OF 18 MONTHS**

**CONTRACT NUMBER: TNPA/2025/06/0004/99874/RFP**

| No.                                  | Reference  | Date Received | Clarification Required                                                                                                                                                 | TNPA Response                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLARIFICATION MEETING QUERIES</b> |            |               |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                |
| 01                                   | Commercial | 02/09/2025    | Please provide the BOQ in Excel format for pricing purposes.                                                                                                           | <p><b>The BOQ was uploaded on the 02/02/2025 to assist with the pricing. However, the BOQ submitted with the tender is required to be completed on the original copy uploaded on e-Tenders by hand and not typed-out.</b></p> <p><b>Refer to the National Treasury e-Tender Publication Portal at <a href="http://www.etenders.gov.za">www.etenders.gov.za</a> for a copy to download.</b></p> |
| 02                                   | Commercial | 09/09/2025    | With reference to the above-mentioned tender, I would like to request an extension of time on the closing date which is currently the 30 <sup>th</sup> September 2025. | <p><b>After careful consideration, we regret we are unable to accommodate an extension at this time. The current timelines have been set to ensure alignment with our internal project schedules.</b></p> <p><b>We encourage you to submit your response within the stipulated timeframe and reach out should you require any clarification during the submission process.</b></p>             |

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| No. | Reference  | Date Received | Clarification Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TNPA Response                                                                                                                                                                                                                                                                                                                                                                                            |
|-----|------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03  | Commercial | 09/09/2025    | <p>Please may you kindly upload the drawings for Newark Road.</p> <p>Urania &amp; Ventura is only available on the website and on E-tenders.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p><b>Newark Road drawings are uploaded there are two folders named:</b></p> <div>  1006614-000-TRN-0049 - Package 1 submission - Part 1 of 2.zi </div> <div>  1006614-000-TRN-0049 - Package 1 submission - Part 2 of 2.zi </div> |
| 04  | Commercial | 09/09/2025    | <p>We respectfully request an extension of the closing date.</p> <p>Motivation for Request:</p> <p>1.The scope of works includes specialist rehabilitation processes within a live port environment, requiring additional time to coordinate supplier and subcontractor inputs (especially for long-lead materials and traffic management measures).</p> <p>2.Finalising a compliant submission, including all functionality elements (programme, SHEQ documentation, risk management, etc.), requires additional time to ensure accuracy and completeness.</p> <p>Granting this extension will enable us to submit a fully</p> | <b>Refer #2.</b>                                                                                                                                                                                                                                                                                                                                                                                         |

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| No. | Reference  | Date Received | Clarification Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TNPA Response                                                                                                                                                                        |
|-----|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |            |               | compliant, competitive, and technically robust tender, aligned with TNPA's requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                      |
| 05  | Commercial | 09/09/2025    | Information well received and much appreciated, however the uploaded BOQ is in PDF and we are requesting for Excel copy which is editable and usually issued after briefing for the purposes of pricing without arithmetic errors.                                                                                                                                                                                                                                                                                                                         | <p><b>Please go through the documents uploaded carefully. The excel version is uploaded.</b></p>  |
| 06  | Commercial | 12/09/2025    | <p><b>T2.2-03 Evaluation Schedule: Programme:</b></p> <p><u>It states:</u></p> <p>The Tenderer details the programme for evaluation and attaches it to this schedule. In addition, the Tenderer is to provide an electronic copy of the programme in Primavera or Microsoft Project. (NB: Transnet system only accept PDF documents, so document MUST all be in PDF).</p> <p><u>Question:</u></p> <p>Please confirm that the Tenderer will only submit a PDF copy of the programme as part of the submission and not an "native file/electronic" copy.</p> | <p><b>The Tenderer will only submit a PDF copy of the programme as part of the submission and not an "native file/electronic" copy.</b></p>                                          |

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| No. | Reference  | Date Received | Clarification Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TNPA Response                                                                               |
|-----|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|     |            |               | Not all the drawings for Newark Road have been uploaded. Please urgently issue the outstanding drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>All the outstanding drawings have been uploaded and are now available on the portal.</b> |
| 07  | 15/09/2025 | Technical     | <p>The RFP Documents refers to the following, but we can't seem to find them in the documents that we downloaded.</p> <p>a) Transnet Integrated Management System (TIMS) Policy Commitment Statement.</p> <p>b) Transnet Standard Operating Procedure for Construction Environmental Management (SOP CEMP) 009-TCC-CLO-SUS-11386 Rev 1.0.</p> <p>c) Transnet Contractor Environmental and Sustainability Specification Guidelines (CESS) TRNIMS-GRP-GDL-014.4 Rev 3.0.</p> <p>d) DFFE Environmental Maintenance Management Plan for the Maintenance Activities Port of Richards Bay.</p> | <b>Documents have been uploaded onto the portal 16/09/2025.</b>                             |

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|-----|------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08  | 15/09/2025 | Technical     | <p>Kindly advise if the below item is a flanged pipe</p> <p>4.1.1.2 Grade B steel, t = 6 mm. Coated with heavy duty fusion bonded epoxy.</p> <p>4.1.1.2.1 300 mm dia m 400</p> | <p><b>Yes, the Grade B steel, t=6mm pipe should be a flanged. The note should read "Grade B steel, t = 6 mm, including flanges on both ends with corresponding gaskets . Coated with heavy duty fusion bonded epoxy."</b></p> <p><b>Bolts shall be galvanized mild steel, diameter as per the table below.</b></p> <p><b>The table below, adopted from SANS 1123:2017, gives the bolt sizes as per pipe diameter.</b></p> |
|     |            |               |                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                           |

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TNPA Response  |   |       |          |                |     |   |   |   |    |           |                    |        |  |             |  |       |          |  |  |    |    |   |   |                |   |  |     |                |   |    |      |    |    |    |   |     |   |    |    |    |      |    |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |  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--|----|-----|-----|-------|-----|----|-----|---|-----|----|----|-----|-----|-------|-----|----|-----|---|-----|----|----|-----|--|
|                   |                    |               | <p><b>SANS 1123:2017</b><br/>Edition 3.4</p> <p><b>Table 2 500/3 — Steel plate flanges for welding</b><br/>Working pressure (NP) : 2 500 kPa</p> <p>Dimensions in millimetres</p> <table><tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th></tr><tr><th>Nom. size</th><th>Pipe outside diam.</th><th colspan="2">Flange</th><th colspan="2">Raised face</th><th>Bolts</th><th colspan="3">Drilling</th></tr><tr><th>DN</th><th>OD</th><th>D</th><th>b</th><th>d<sub>3</sub></th><th>f</th><th></th><th>No.</th><th>d<sub>1</sub></th><th>d</th></tr><tr><td>10</td><td>17,2</td><td>90</td><td>12</td><td>40</td><td>2</td><td>M12</td><td>4</td><td>14</td><td>60</td></tr><tr><td>15</td><td>21,3</td><td>95</td><td>14</td><td>45</td><td>2</td><td>M12</td><td>4</td><td>14</td><td>65</td></tr><tr><td>20</td><td>26,9</td><td>105</td><td>14</td><td>58</td><td>2</td><td>M12</td><td>4</td><td>14</td><td>75</td></tr><tr><td>25</td><td>33,7</td><td>115</td><td>16</td><td>68</td><td>2</td><td>M12</td><td>4</td><td>14</td><td>85</td></tr><tr><td>32</td><td>42,4</td><td>140</td><td>18</td><td>78</td><td>2</td><td>M16</td><td>4</td><td>18</td><td>100</td></tr><tr><td>40</td><td>48,3</td><td>150</td><td>20</td><td>88</td><td>3</td><td>M16</td><td>4</td><td>18</td><td>110</td></tr><tr><td>50</td><td>60,3</td><td>165</td><td>20</td><td>102</td><td>3</td><td>M16</td><td>4</td><td>18</td><td>125</td></tr><tr><td>65</td><td>76,1</td><td>185</td><td>22</td><td>122</td><td>3</td><td>M16</td><td>8</td><td>18</td><td>145</td></tr><tr><td>80</td><td>88,9</td><td>200</td><td>22</td><td>138</td><td>3</td><td>M16</td><td>8</td><td>18</td><td>160</td></tr><tr><td>100</td><td>114,3</td><td>235</td><td>25</td><td>162</td><td>3</td><td>M20</td><td>8</td><td>22</td><td>190</td></tr><tr><td>125<sup>1)</sup></td><td>139,7</td><td>270</td><td>28</td><td>188</td><td>3</td><td>M24</td><td>8</td><td>26</td><td>220</td></tr><tr><td>150</td><td>168,3</td><td>300</td><td>30</td><td>218</td><td>3</td><td>M24</td><td>8</td><td>26</td><td>250</td></tr><tr><td>175<sup>1)</sup></td><td>193,7</td><td>330</td><td>25</td><td>248</td><td>3</td><td>M24</td><td>12</td><td>26</td><td>280</td></tr><tr><td>200</td><td>219,1</td><td>360</td><td>28</td><td>278</td><td>3</td><td>M24</td><td>12</td><td>26</td><td>310</td></tr><tr><td>225<sup>1)</sup></td><td>244,5</td><td>395</td><td>30</td><td>306</td><td>3</td><td>M24</td><td>12</td><td>26</td><td>340</td></tr><tr><td>250</td><td>273,0</td><td>425</td><td>30</td><td>335</td><td>3</td><td>M24</td><td>12</td><td>26</td><td>370</td></tr><tr><td>300</td><td>323,9</td><td>485</td><td>32</td><td>395</td><td>4</td><td>M24</td><td>16</td><td>26</td><td>430</td></tr><tr><td>350</td><td>355,6</td><td>555</td><td>35</td><td>450</td><td>4</td><td>M30</td><td>16</td><td>33</td><td>490</td></tr><tr><td>400</td><td>406,4</td><td>620</td><td>40</td><td>505</td><td>4</td><td>M30</td><td>16</td><td>33</td><td>550</td></tr><tr><td>450</td><td>457,0</td><td>670</td><td>45</td><td>555</td><td>4</td><td>M30</td><td>20</td><td>33</td><td>600</td></tr><tr><td>500</td><td>508,0</td><td>730</td><td>50</td><td>615</td><td>4</td><td>M30</td><td>20</td><td>33</td><td>660</td></tr><tr><td>550</td><td>559,0</td><td>785</td><td>55</td><td>670</td><td>5</td><td>M36</td><td>20</td><td>39</td><td>710</td></tr><tr><td>600</td><td>610,0</td><td>845</td><td>60</td><td>720</td><td>5</td><td>M36</td><td>20</td><td>39</td><td>770</td></tr></table> <p>1) Non-preferred size.</p> | 1              | 2 | 3     | 4        | 5              | 6   | 7 | 8 | 9 | 10 | Nom. size | Pipe outside diam. | Flange |  | Raised face |  | Bolts | Drilling |  |  | DN | OD | D | b | d <sub>3</sub> | f |  | No. | d <sub>1</sub> | d | 10 | 17,2 | 90 | 12 | 40 | 2 | M12 | 4 | 14 | 60 | 15 | 21,3 | 95 | 14 | 45 | 2 | M12 | 4 | 14 | 65 | 20 | 26,9 | 105 | 14 | 58 | 2 | M12 | 4 | 14 | 75 | 25 | 33,7 | 115 | 16 | 68 | 2 | M12 | 4 | 14 | 85 | 32 | 42,4 | 140 | 18 | 78 | 2 | M16 | 4 | 18 | 100 | 40 | 48,3 | 150 | 20 | 88 | 3 | M16 | 4 | 18 | 110 | 50 | 60,3 | 165 | 20 | 102 | 3 | M16 | 4 | 18 | 125 | 65 | 76,1 | 185 | 22 | 122 | 3 | M16 | 8 | 18 | 145 | 80 | 88,9 | 200 | 22 | 138 | 3 | M16 | 8 | 18 | 160 | 100 | 114,3 | 235 | 25 | 162 | 3 | M20 | 8 | 22 | 190 | 125 <sup>1)</sup> | 139,7 | 270 | 28 | 188 | 3 | M24 | 8 | 26 | 220 | 150 | 168,3 | 300 | 30 | 218 | 3 | M24 | 8 | 26 | 250 | 175 <sup>1)</sup> | 193,7 | 330 | 25 | 248 | 3 | M24 | 12 | 26 | 280 | 200 | 219,1 | 360 | 28 | 278 | 3 | M24 | 12 | 26 | 310 | 225 <sup>1)</sup> | 244,5 | 395 | 30 | 306 | 3 | M24 | 12 | 26 | 340 | 250 | 273,0 | 425 | 30 | 335 | 3 | M24 | 12 | 26 | 370 | 300 | 323,9 | 485 | 32 | 395 | 4 | M24 | 16 | 26 | 430 | 350 | 355,6 | 555 | 35 | 450 | 4 | M30 | 16 | 33 | 490 | 400 | 406,4 | 620 | 40 | 505 | 4 | M30 | 16 | 33 | 550 | 450 | 457,0 | 670 | 45 | 555 | 4 | M30 | 20 | 33 | 600 | 500 | 508,0 | 730 | 50 | 615 | 4 | M30 | 20 | 33 | 660 | 550 | 559,0 | 785 | 55 | 670 | 5 | M36 | 20 | 39 | 710 | 600 | 610,0 | 845 | 60 | 720 | 5 | M36 | 20 | 39 | 770 |  |
| 1                 | 2                  | 3             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| Nom. size         | Pipe outside diam. | Flange        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Raised face    |   | Bolts | Drilling |                |     |   |   |   |    |           |                    |        |  |             |  |       |          |  |  |    |    |   |   |                |   |  |     |                |   |    |      |    |    |    |   |     |   |    |    |    |      |    |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| DN                | OD                 | D             | b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | d <sub>3</sub> | f |       | No.      | d <sub>1</sub> | d   |   |   |   |    |           |                    |        |  |             |  |       |          |  |  |    |    |   |   |                |   |  |     |                |   |    |      |    |    |    |   |     |   |    |    |    |      |    |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 10                | 17,2               | 90            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 15                | 21,3               | 95            | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 20                | 26,9               | 105           | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 25                | 33,7               | 115           | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 32                | 42,4               | 140           | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 40                | 48,3               | 150           | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 50                | 60,3               | 165           | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 65                | 76,1               | 185           | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 80                | 88,9               | 200           | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 100               | 114,3              | 235           | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 125 <sup>1)</sup> | 139,7              | 270           | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 150               | 168,3              | 300           | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 175 <sup>1)</sup> | 193,7              | 330           | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 200               | 219,1              | 360           | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 225 <sup>1)</sup> | 244,5              | 395           | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 250               | 273,0              | 425           | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 300               | 323,9              | 485           | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 350               | 355,6              | 555           | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 400               | 406,4              | 620           | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 450               | 457,0              | 670           | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 500               | 508,0              | 730           | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 615            | 4 | M30   | 20       | 33             | 660 |   |   |   |    |           |                    |        |  |             |  |       |          |  |  |    |    |   |   |                |   |  |     |                |   |    |      |    |    |    |   |     |   |    |    |    |      |    |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 550               | 559,0              | 785           | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 670            | 5 | M36   | 20       | 39             | 710 |   |   |   |    |           |                    |        |  |             |  |       |          |  |  |    |    |   |   |                |   |  |     |                |   |    |      |    |    |    |   |     |   |    |    |    |      |    |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
| 600               | 610,0              | 845           | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |
|                   |                    |               | <p>3.8.3 <u>Flanges and Accessories.</u> Each flanged pipe and fitting shall be supplied complete with one set of bolts and nuts and one insertion piece of the appropriate diameter and made of a material that is suitable for the maximum test pressure. The drilling of steel and CI flanges shall conform to the requirements of SABS 1123 or BS 4504 : Part 1, as applicable, appropriate to the class of pipe specified, except that a) in the case of flanges for hydrant and air valve matching tees, the drilling shall conform to the drilling of the valve supplied, and</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |   |       |          |                |     |   |   |   |    |           |                    |        |  |             |  |       |          |  |  |    |    |   |   |                |   |  |     |                |   |    |      |    |    |    |   |     |   |    |    |    |      |    |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |    |    |      |     |    |    |   |     |   |    |     |    |      |     |    |    |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |    |      |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |   |    |     |     |       |     |    |     |   |     |   |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |                   |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |     |       |     |    |     |   |     |    |    |     |  |

**THE PROVISION OF THE PORT ROAD UPGRADE AND REHABILITATION PHASE 1: UPGRADE AND REHABILITATION OF URANIA, NEWARK, AND VENTURA CONCRETE ROADS WITHIN THE PORT OF RICHARDS BAY FOR A PERIOD OF 18 MONTHS**

**CONTRACT NUMBER: TNPA/2025/06/0004/99874/RFP**

| No. | Reference  | Date Received | Clarification Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TNPA Response                                                                                                                                                                                |
|-----|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09  | H&S        | 15/09/2025    | Kindly advise if a Director or Managing Director signs the Health & Safety Plan at tender stage, will this be sufficient enough?                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Firstly it is the Safety, Health &amp; Environmental Policy signed by the Chief Executive Officer.<br/>The person signing must be the 16.1.</b>                                           |
| 10  | Commercial | 16/09/2025    | Kindly advise if the presentation shared during the tender briefing can be made available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>The presentation was uploaded on the portal, 10 September 2025.</b>                                                                                                                       |
| 11  | BoQ        | 17/09/2025    | <p>Please could you clarify the following:</p> <p>On Addendum 1 amendments was made to items 71.06 of <b>SCHEDULE B : NEWARK ROAD, SCHEDULE C : VENTURA ROAD and SCHEDULE D : URANIA ROAD</b></p> <p><b>SECTION 7100: CONCRETE PAVEMENTS</b> below, is this a now a pay item as previously in the BOQ it was a heading, and it now had a unit and quantity against it?</p> <p>Do we remove the installed in new concrete item or does it remain?</p> <p>The amended attached pages do not reflect the quantity 4600.</p> <p>Please advise if this is just an amendment to the description.</p> | <p><b>Please note the quantity of dowels as shown in the table below are the total for all 3 roads (Schedules B, C and D).</b></p> <p><b>It is an amendment to the description only.</b></p> |

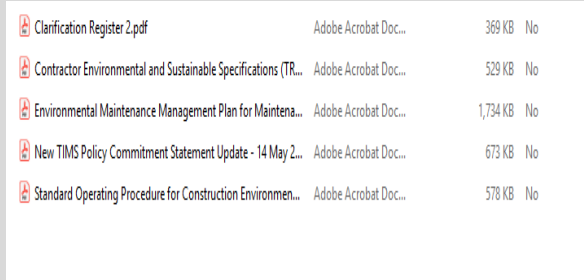
**THE PROVISION OF THE PORT ROAD UPGRADE AND REHABILITATION PHASE 1: UPGRADE AND REHABILITATION OF URANIA, NEWARK, AND VENTURA CONCRETE ROADS WITHIN THE PORT OF RICHARDS BAY FOR A PERIOD OF 18 MONTHS**

**CONTRACT NUMBER: TNPA/2025/06/0004/99874/RFP**

| No.                                                                                           | Reference                                                                          | Date Received | Clarification Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TNPA Response                                                                                                                                         |             |      |          |      |        |  |                                                                                    |   |      |  |  |                                                                                               |  |  |  |  |  |                               |  |        |       |  |  |  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|----------|------|--------|--|------------------------------------------------------------------------------------|---|------|--|--|-----------------------------------------------------------------------------------------------|--|--|--|--|--|-------------------------------|--|--------|-------|--|--|--|
|                                                                                               |                                                                                    |               | <table><tr><th>ITEM NO</th><th>DESCRIPTION</th><th>UNIT</th><th>QUANTITY</th><th>RATE</th><th>AMOUNT</th></tr><tr><td></td><td>(d) Diamond dowels with pocket formers (stainless steel), 20 mm x 114 mm x 114 mm:</td><td>m</td><td>4600</td><td></td><td></td></tr></table><br><table><tr><td>(d) Diamond dowels with pocket formers (mild steel stainless steel), 20 mm x 114 mm x 114 mm:</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>(i) Installed in new concrete</td><td></td><td>number</td><td>3 350</td><td></td><td></td></tr></table> | ITEM NO                                                                                                                                               | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |  | (d) Diamond dowels with pocket formers (stainless steel), 20 mm x 114 mm x 114 mm: | m | 4600 |  |  | (d) Diamond dowels with pocket formers (mild steel stainless steel), 20 mm x 114 mm x 114 mm: |  |  |  |  |  | (i) Installed in new concrete |  | number | 3 350 |  |  |  |
| ITEM NO                                                                                       | DESCRIPTION                                                                        | UNIT          | QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RATE                                                                                                                                                  | AMOUNT      |      |          |      |        |  |                                                                                    |   |      |  |  |                                                                                               |  |  |  |  |  |                               |  |        |       |  |  |  |
|                                                                                               | (d) Diamond dowels with pocket formers (stainless steel), 20 mm x 114 mm x 114 mm: | m             | 4600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                       |             |      |          |      |        |  |                                                                                    |   |      |  |  |                                                                                               |  |  |  |  |  |                               |  |        |       |  |  |  |
| (d) Diamond dowels with pocket formers (mild steel stainless steel), 20 mm x 114 mm x 114 mm: |                                                                                    |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                       |             |      |          |      |        |  |                                                                                    |   |      |  |  |                                                                                               |  |  |  |  |  |                               |  |        |       |  |  |  |
| (i) Installed in new concrete                                                                 |                                                                                    | number        | 3 350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                       |             |      |          |      |        |  |                                                                                    |   |      |  |  |                                                                                               |  |  |  |  |  |                               |  |        |       |  |  |  |
| 12                                                                                            | Technical                                                                          | 17/09/2025    | <p>Please confirm if the below item thickness is correct as our supplier states that this could cause structural complications.</p> <p>(d) Diamond dowels with pocket formers (mild steel), 20 mm x 114 mm x 114 mm:</p>                                                                                                                                                                                                                                                                                                                                           | <p><b>Please use the thickness as specified.</b></p> <p><b>Please also note the material has been changed from mild steel to stainless steel.</b></p> |             |      |          |      |        |  |                                                                                    |   |      |  |  |                                                                                               |  |  |  |  |  |                               |  |        |       |  |  |  |
| 13                                                                                            | Commercial                                                                         | 17/09/2025    | <p>We allocated the BoQ from the portal, but there seems to be no VAT component on the Final Summary page.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p><b>Transfer the Total Amount excluding VAT from the Final Summary Page to the Form of Offer and Acceptance.</b></p>                                |             |      |          |      |        |  |                                                                                    |   |      |  |  |                                                                                               |  |  |  |  |  |                               |  |        |       |  |  |  |

**THE PROVISION OF THE PORT ROAD UPGRADE AND REHABILITATION PHASE 1: UPGRADE AND REHABILITATION OF URANIA, NEWARK, AND VENTURA CONCRETE ROADS WITHIN THE PORT OF RICHARDS BAY FOR A PERIOD OF 18 MONTHS**

**CONTRACT NUMBER: TNPA/2025/06/0004/99874/RFP**

| No. | Reference  | Date Received | Clarification Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TNPA Response                                                                                                                                                                                                                                                                                                                                                        |
|-----|------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |            |               | Should we keep it as is or we should include VAT on the summary?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Then, calculate and add the VAT to determine the Total Final Price inclusive of VAT.</b>                                                                                                                                                                                                                                                                          |
| 14  | Commercial | 18/09/2025    | <p>With regards to the information below you mention in Clarification 2 that the documents were uploaded on the portal on 16/09/2025. I have been on the portal this morning and the only documents uploaded on the portal on 16/09/2025 were drawings.</p> <p>a) Transnet Integrated Management System (TIMS) Policy Commitment Statement.<br/> b) Transnet Standard Operating Procedure for Construction Environmental Management (SOP CEMP) 009-TCC-CLO-SUS-11386 Rev 1.0<br/> c) Transnet Contractor Environmental and Sustainability Specification Guidelines (CESS) TRN-IMS- GRP-GDL-014.4 Rev 3.0<br/> d) DFFE Environmental Maintenance Management Plan for the Maintenance Activities Port of Richards Bay.</p> <p>Also mentioned in Clarification 2 that the BOQ must be handwritten, this is an electronic submission and having had a look at the PDF version of the BOQ in the RFP document, the rate column and amount columns are too narrow to actually write in them.</p> | <p><b>Below is a screenshot of the four (4) documents that were uploaded with clarification #2.</b></p>  <p><b>The Bill of Quantities (BoQ) may be submitted electronically to ensure clarity and legibility. No changes to the item descriptions or rates are permitted.</b></p> |

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| <b>No.</b> | <b>Reference</b> | <b>Date Received</b> | <b>Clarification Required</b>                                                                                                                                                                                                                                                                                                                                  | <b>TNPA Response</b>                                                                                                                                                                                                                                                                                                                                            |
|------------|------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                  |                      | Please advise if we can complete the BOQ Electronically on the Excel provided as this will allow us to submit a legible BOQ.                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                 |
| 15         | Technical        | 19/09/2025           | We have the road Cross Section joint details (A1 and A2) but not the related plan views. We have plan views for joint details A and B etc. Please could we request plan views for joint details A1, A2 etc. Basing our rates on Cross section details could heavily (and negatively) influence the pricing.                                                    | <b>The concrete joint layout drawings provide a typical jointed concrete pavement layout. Joint type A1 and A2 (and B1 and B2) differs in terms of being either planned construction or sawcut joints. The <i>Contractor's</i> approved construction methodology, equipment and production rates will influence the number of construction joints required.</b> |
| 16         | Technical        | 19/09/2025           | Regarding the above tender, we would like to enquire regarding vehicular access to the site. The works will require approximately 200m <sup>3</sup> daily concrete import. Will the subcontractor have a dedicated access point for readymix vehicles? As you are aware, there is a risk of the product hardening en-route should there be any delays to site. | <b>There is no dedicated access for construction vehicles to the Port, as all vehicles accessing the Port must go through the security checkpoint, which is the existing gates or any approved temporary security checkpoint that might be implemented during the Project in line with the approved traffic management plan.</b>                                |

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| No. | Reference | Date<br>Received | Clarification Required | TNPA Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|-----------|------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |           |                  |                        | <p>Furthermore, any delays occurring due to traffic as the truck approaches the Port from the Plant will not be the responsibility of TNPA/Employer. The <i>Contractor</i> shall take full responsibility for the <i>works</i> in all aspects of the project, which includes material delivery.</p> <p>For Port-related delays, the <i>Contractor</i> is fully responsible for traffic management during construction, hence his/her traffic management plan shall account for such deliveries.</p> <p>The <i>Contractor</i> will be required to apply for an E-permit for trucks or equipment coming to the Port for construction, so there will be no need to wait at the permit office on arrival, hence the truck will come through the security check gate to the construction site from the plant. Permits should be applied for at most 72 hours from arrival date.</p> |

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| No. | Reference  | Date Received | Clarification Required                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                | TNPA Response                                                                                                                                                                                                                                                                                                                                 |
|-----|------------|---------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17  | Key Person | 22/09/2025    | May we use one persn for two roles? Ie can the Site Agent be the Construction Manager as well, be one person. |                                                                                                                                                                                                                                                                                                                                                                                                | <b>No, one person can not perform more than one (1) role. Site agent/Resident Engineer is to oversee the technical aspect of the project, while the Construction Manager oversees general construction activities on site. The following are criteria that will be used to assess each candidate, for the purpose of contract management.</b> |
|     |            |               | <b>Resource</b>                                                                                               | <b>Qualification and experience Requirements</b>                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                               |
|     |            |               | Pr. Site Engineer or site Agent.                                                                              | <p>Site Engineer should at least have NQF level 7 in Civil engineering And shall be registered with the Engineering Council of South Africa (ECSA) as a Professional Civil Engineer.</p> <p>The Site Engineer must have a minimum of 10 years working experience in projects of a similar nature to the works, Post registration with ECSA as Pr. Engineer.</p>                                |                                                                                                                                                                                                                                                                                                                                               |
|     |            |               | Construction manager                                                                                          | <p>Construction Manager should at least have NQF level 6 in Civil engineering or construction management and shall be registered with the Engineering Council of South Africa (ECSA) as a Professional or Professional Construction Manager with SACPCMP.</p> <p>The construction manager must have a minimum of 10 years Working experience in projects of a similar nature to the works,</p> |                                                                                                                                                                                                                                                                                                                                               |

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| No. | Reference | Date Received | Clarification Required | TNPA Response                   |
|-----|-----------|---------------|------------------------|---------------------------------|
|     |           |               |                        | Post Professional registration. |