

JABATAN KERJA RAYA MALAYSIA

**PEMBINAAN BANGUNAN TAMBAHAN PROGRAM PENDIDIKAN KHAS  
INTEGRASI (PPKI) DI SK. BUKIT KETERI, PERLIS (RBA0089)**

**SCHEDULE OF PRICE**

Kami seperti nama syarikat di bawah mengesahkan tawaran harga yang tersenarai di dalam senarai kuantiti ini adalah sama sepertimana di dalam Borang Tender yang dihasilkan di dalam sistem dan sebarang percanggahan akan menyebabkan tawaran kami ditolak.

- A. Nama Syarikat: **Nama Petender**
- B. CIDB/UPKJ/PUKONSA No.: **No.Pendaftaran Petender**
- C. Harga Tawaran: **Harga Tawaran Petender**
- D. No. Siri Tender: **JKR/F/PS/4/2024 (T)**
- E. Tarikh Cipta Senarai Kuantiti: **11/4/2024**

Senarai kuantiti ini dikeluarkan oleh UKUR BAHAN. Sebarang pertanyaan boleh berhubung dengan pegawai yang menyediakan tender dan maklumat pegawai untuk dihubungi boleh didapati di laman iklan.

# **JABATAN KERJA RAYA MALAYSIA**

## **PEMBINAAN BANGUNAN TAMBAHAN PROGRAM PENDIDIKAN KHAS INTEGRASI (PPKI) DI SK. BUKIT KETERI, PERLIS (RBA0089)**

### **SCHEDULE OF PRICE**

No. Tender: JKR/F/PS/4/2024 (T)

RINGKASAN TENDER

**PEMBINAAN BANGUNAN TAMBAHAN PROGRAM PENDIDIKAN KHAS INTEGRASI (PPKI) DI  
SK. BUKIT KETERI, PERLIS (RBA0089)**

| ITEM                            | DESCRIPTION                                                   | PAGE NO. | AMOUNT(RM) |
|---------------------------------|---------------------------------------------------------------|----------|------------|
| 1.0                             | KEHENDAK PERMULAAN & SYARAT-SYARAT AM                         | A1/13    |            |
| 2.0                             | KERJA-KERJA ASAS                                              | P2/1     |            |
| 3.0                             | KERJA BANGUNAN TAMBAHAN (TIDAK TERMASUK PERKHIDMATAN DALAMAN) | P3/1     |            |
| 4.0                             | PERKHIDMATAN DALAMAN                                          | P4/4     |            |
| 5.0                             | KERJA BUMBUNG                                                 | P5/1     |            |
| 6.0                             | KERJA LUAR BANGUNAN                                           | P6/14    |            |
| 7.0                             | WANG PERUNTUKAN SEMENTARA                                     | P7/1     |            |
| 8.0                             | WANG KOS PRIMA                                                | P8/1     |            |
| Jumlah di bawa ke Borang Tender |                                                               |          | -          |

RT/1

| ITEM                                                                                                           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p><b>A</b></p> <p><b>1.0</b></p> <p>1.1</p> <p>1.2</p> <p>1.3</p> <p>1.4</p> <p>1.5</p> <p>1.6</p> <p>1.7</p> | <p><b>GENERAL INFORMATION TO BILL OF QUANTITIES</b></p> <p><b>GENERAL</b></p> <p>The Works contained in the Contract shall include the provision of all labour, materials, constructional plant, temporary or permanent works as required in the Contract.</p> <p>The Bill of Quantities shall be read in conjunction with the Conditions of Contract, the Specification and the Drawings in the Contract Documents.</p> <p>The items as set out in Bill of Quantities shall apply to the whole of the works contained in the Contract and the Contractor shall allow for compliance with the same and for any cost incurred in connection therewith.</p> <p>Headings are not comprehensive and do not necessarily reflect or modify the meaning of the items in the B.Q. The exact nature and extent of the work to be carried out shall be ascertained by reference to the Contract as a whole, in particular the Conditions of Contract, the Specification and the Drawings It shall be read together with the relevant "Method of Payment".</p> <p>The amounts inserted by the Contractor for such items shall be deemed to apply to the whole of the Works carried out under this Contract.</p> <p>Each Item shall be individually price. Bulk pricing for sections, trades, groups or pages of items shall not be allowed and no subsequent claims for loss or expenses and/or profit shall be entertained for failure to comply with this clause.</p> <p>The rates and prices inserted in the Bill of Quantities shall include cost of the works described, all risk, liabilities and obligations set forth or implied in the Contract Document and shall be deemed to include the following, unless expressly stated otherwise:</p> <ul style="list-style-type: none"> <li>(a) the provision of labour an all costs in connection therewith;</li> <li>(b) the supply of materials, goods, equipment and storage thereof including delivery to site and all costs in connection therewith;</li> <li>(c) taking delivery of materials, goods and equipment necessary for the Works and including those supplied by others, loading and unloading, storage and all costs in connection therewith;</li> <li>(d) the usage of plant and machineries and all costs in connection therewith;</li> <li>(e) the fixing, erecting and installing or placing in position of materials, goods and equipment including around obstruction, tolerances, penetration, working space, over-breaks etc. and all costs in connection therewith;</li> <li>(f) the provision of all temporary works and all costs in connection therewith unless separately provided for in the Bill of Quantities;</li> </ul> |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| ITEM       | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|            | <p>(g) the phasing requirements of the Works including the effect on the programming of the Works of all traffic and drainage diversions, special structural requirements, earthwork restrictions, alterations to services and street lighting (executed under the Contract or in conjunction with it) and all other requirements of the Contract and all costs in connection therewith;</p> <p>(h) all cost of testing to show proof of compliance with the Specification on materials and workmanship inclusive of samples of materials and submission of tests results. Should the frequency of testing and sampling not specified, then it shall be in accordance with the relevant Malaysian/British Standards and Codes of Practice. Where there is no such relevant Standards and Codes of Practice for reference, it shall then be as instructed by the S.O.;</p> <p>(i) all royalties and dues which the Contractor may be required to pay;</p> <p>(j) wastage</p> <p>(k) establishment charges, overheads and profit;</p> <p>(l) whatsoever method of construction the Contractor may adopt.</p> |
| 1.8        | Where any priced item in the B.Q. but has not been executed on site by the Contractor, the cost of such priced item shall accordingly be deducted from the Contract Sum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1.9        | All items priced shall be deemed to include compliance with the provisions of contract, statutes, regulation, by-laws or any order or directive issued by public authority or public service company and other related legislation currently in force.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1.10       | Notwithstanding the above clauses, the S.O. reserves the right to request from the Contractor the detailed breakdown of the pricing for items or rates in the B.Q. for his perusal. The detailed breakdown pricing may be used as a basis for the administration of the Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>2.0</b> | <b>MEASUREMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2.1        | Quantities in the Bills of Quantities are measured in accordance with the Malaysia Standard Method of Measurement of Building Works (2nd Edition Metric 2000). Where departure have been made from the standards mentioned, the method adopted in the Bills shall be adhered to for the purposes of ascertaining the value of all variations and measurements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>3.0</b> | <b>UNPRICED ITEMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.1        | Where any item is left unpriced, it shall be deemed that the cost of such item has been allowed for elsewhere within this document. No subsequent claims arising out of expense and/or loss incurred against such unpriced item shall be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| ITEM       | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>4.0</b> | <b>GENERAL ATTENDANCE FOR NOMINATED SUB-CONTRACTORS AND NOMINATED SUPPLIERS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4.1        | <p>Attendance and facilities for Nominated Sub-contractors and nominated suppliers</p> <p>(a) in the case of works or services executed : for allowing the use of existing working space, access, temporary roads, erected scaffolding, sanitary, welfare and other facilities existing on Site and the provision of protection, water, electricity for lighting and clearing away rubbish and debris arising from the works;</p> <p>(b) in the case of goods, materials or services supplied: for taking delivery, unloading, storing, protection and returning crates, cartons and packing materials, all as specified in the specification.</p> |
| <b>5.0</b> | <b>PHASING SEQUENCE OF OPERATIONS AND METHODS OF CONSTRUCTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5.1        | <p>The rates and prices shall, unless otherwise stated, include for the costs of compliance with any restrictions imposed on the programming of the Works by the Government and Local Authorities and other relevant authorities dealing with phasing sequence of operations, method of construction, safety and health and liaison and access.</p>                                                                                                                                                                                                                                                                                                |
| <b>6.0</b> | <b>TRIALS, SAMPLES, TESTS AND INSPECTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6.1        | <p>The rates and prices shall include for a testing laboratory or an accredited laboratory</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>7.0</b> | <b>EXISTING SERVICES AND MAINS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 7.1        | <p>The Contractor shall include in his rates and prices for taking measures to locate the actual position provide support and full protection of existing services and mains and other equipment and machineries during the progress of the Works. The Contractor shall inform the S.O. of all arrangement with all Statutory and Public Utility Authorities.</p>                                                                                                                                                                                                                                                                                  |
| <b>8.0</b> | <b>WORK UNDER WATER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 8.1        | <p>The rates shall include any costs arising from and in connection with the execution of work under water wherever required unless otherwise stated.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| ITEM                | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
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| <b>9.0</b>          | <b>PHRASEOLOGY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| 9.1                 | Differences in the method of billing and in phraseology used in various parts of the Bill of Quantities and/or Schedule of Rates shall not to be a basis of any claim for an increase in the rates and prices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| <b>10.0</b>         | <b>PROVISIONAL SUMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| 10.1                | All provisional sums included in the Bill of Quantities are intended to be approximate indications only of the amounts to be expended in respect of the work described and may be omitted entirely or substantially varied without entitling the Contractor to any claim for compensation. No part of the Contractor's overhead, expenses or profit should be included in these sums when the bill is priced unless items for profit and attendance are specifically allowed for.                                                                                                                                                                                                                |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| <b>11.0</b>         | <b>CURRENCY OF PAYMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| 11.1                | Pricing of the Contract shall be in Malaysian Ringgit to two decimal place. Payment to the Contractor under the Contract shall be in Malaysian Ringgit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| <b>12.0</b>         | <b>TEMPORARY DIVERSION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| 12.1                | Work in connection with the temporary diversion and relocation of existing overhead and underground services, whether detailed in the Contract or not shall be covered by the appropriate Lump Sum Items in Bill No. 1 : Preliminaries and General Conditions unless separately measured in other parts of the Bill of Quantities.                                                                                                                                                                                                                                                                                                                                                               |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| <b>13.0</b>         | <b>ABBREVIATIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| 13.1                | <p>The following abbreviations or symbols are generally used in the Contract Document and shall be read as follows:</p> <table> <tr> <td>a) mm :</td><td>Millimetre</td></tr> <tr> <td>b) m :</td><td>Metre</td></tr> <tr> <td>c) m<sup>2</sup> :</td><td>square metre</td></tr> <tr> <td>d) m<sup>3</sup> :</td><td>cubic metre</td></tr> <tr> <td>e) kg :</td><td>kilogramme</td></tr> <tr> <td>f) tonne</td><td>metric ton</td></tr> <tr> <td>g) No.</td><td>Number</td></tr> <tr> <td>h) L.S.</td><td>Lump Sum</td></tr> <tr> <td>i) P.C. Sum</td><td>Prime Cost Sum</td></tr> <tr> <td>j) P.S.</td><td>Provisional Sum</td></tr> <tr> <td>k) RM</td><td>Ringgit Malaysia</td></tr> </table> | a) mm : | Millimetre | b) m : | Metre | c) m <sup>2</sup> : | square metre | d) m <sup>3</sup> : | cubic metre | e) kg : | kilogramme | f) tonne | metric ton | g) No. | Number | h) L.S. | Lump Sum | i) P.C. Sum | Prime Cost Sum | j) P.S. | Provisional Sum | k) RM | Ringgit Malaysia |
| a) mm :             | Millimetre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| b) m :              | Metre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| c) m <sup>2</sup> : | square metre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| d) m <sup>3</sup> : | cubic metre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| e) kg :             | kilogramme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| f) tonne            | metric ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| g) No.              | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| h) L.S.             | Lump Sum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| i) P.C. Sum         | Prime Cost Sum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| j) P.S.             | Provisional Sum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
| k) RM               | Ringgit Malaysia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |            |        |       |                     |              |                     |             |         |            |          |            |        |        |         |          |             |                |         |                 |       |                  |

| ITEM                           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <p><b>14.0</b></p> <p>14.1</p> | <p><b>SCOPE OF WORKS</b></p> <p>The works included under this Contract comprises :</p> <ul style="list-style-type: none"> <li>a. Kehendak Permulaan Dan Syarat-Syarat Am</li> <li>b. Kerja-kerja Asas (<i>Pad Footing</i>)</li> <li>c. Kerja-kerja Bangunan (Tidak Termasuk Perkhidmatan Dalaman)</li> <li>d. Perkhidmatan Dalaman</li> <li>e. Kerja-kerja Bumbung</li> <li>f. Kerja-kerja Luar Bangunan</li> <li>g. Wang Kos Prima</li> <li>h. Wang Peruntukan Sementara</li> </ul> |
| <p><b>15.0</b></p> <p>15.1</p> | <p><b>LOCATION OF SITE</b></p> <p>The site for the proposed Works is located at <b>SK BUKIT KETERI, PERLIS (RBA0089)</b></p>                                                                                                                                                                                                                                                                                                                                                         |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AMOUNT (RM) |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|      | <b>Project Signboard</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
| A    | The Contractor shall provide, erect and maintaining a project signboard as specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |
|      | <b>Site Survey and Setting Out</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |
| B    | The Contractor shall employ a licensed surveyor to carry out site surveys before commencement and setting out of the Works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |
|      | <b>Temporary Diversion And Relocation Of Existing Overhead And Underground Services</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |
| C    | The Contractor shall enquire from the various authorities and make arrangements for the disconnection, removal, relocations and reconnection of services and pay all necessary cost and fees in connection therewith and make good all damage as specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |
|      | <b>Construction Plan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
| D    | The Contractor shall submit to the S.O. for this approval the following as specified : <ul style="list-style-type: none"> <li>a) Programme of Works</li> <li>b) Method Statements</li> <li>c) Contractor's Organisation Chart</li> <li>d) Schedules</li> <li>e) <del>Quality Assurance Plan for Works Contract worth RM10 Million and above</del> <ul style="list-style-type: none"> <li>i) <del>Provided a quality Assurance Team full time on Site for Institution, administration and maintainance of the Quality Assurance Plan and the preparation and submission of all Quality Assurance Reports as specified, throughtout the duration of the contract.</del></li> <li>ii) <del>The Contractor shall appoint a suitably qualified and experienced person to act solely as a Quality Assurance Officer full time on site to lead Quality Assurance Team. (Refer addendum to specification for worth RM 10 million and above).</del></li> </ul> </li> </ul> |             |
|      | <b>Contractor's Plant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| E    | The Contractor shall provide, erect, keep insured, maintain and remove on completion all requisite scaffolding, hoist, cranage, ladder, staging, tarpaulins, et cetera (excluding piling and pile testing equipment), as necessary for the execution of the Works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |
|      | <b>TO COLLECTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                  | AMOUNT (RM) |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|      | <b>Temporary Water And Power Supplies For The Works</b>                                                                                                                                                                                                                                                      |             |
| A    | The Contractor shall provide adequate power and water supplies for the execution of the works including paying all associated costs and fees as specified.                                                                                                                                                   |             |
|      | <b>Site Security</b>                                                                                                                                                                                                                                                                                         |             |
| B    | The Contractor shall provide all necessary personnel and lightning for the security of the site at all times until completion of the Whole Works as specified.                                                                                                                                               |             |
|      | <b>Temporary Access And Maintainance Of Existing Roads</b>                                                                                                                                                                                                                                                   |             |
| C    | The Contractor shall provide and maintain all necessary temporary roads, culverts, tracks, bridges, etc cetera for access to and within the Site as specified.                                                                                                                                               |             |
| D    | The Contractor shall maintain all access including existing roads, bridges, drains, culverts, roadside furniture, and all other appurtenances and services on such roads throughout the construction period. The contractor shall make good any above mentioned item damaged by any work carried out by him. |             |
| E    | The Contractor shall locate the actual position and provide support and full protection of existing services and mains during the progress of the Works. The Contractor shall inform the S.O. of all arrangements with the various authorities.                                                              |             |
|      | <b>Control Of Workmen, Plant And Machinery At Site</b>                                                                                                                                                                                                                                                       |             |
| F    | The Contractor shall ensure the safety, health and welfare at work of all his workmen as specified.                                                                                                                                                                                                          |             |
|      | <b>Contractor's Temporary Accommodation And Facilities For Workmen Living On Site</b>                                                                                                                                                                                                                        |             |
| G    | The Contractor shall provide and maintain all temporary accommodation and facilities including temporary lighting, plumbing, water storage, sanitary and sewerage for his labour and staff living on site as specified.                                                                                      |             |
|      | <b>Contractor's Office And Storage</b>                                                                                                                                                                                                                                                                       |             |
| H    | The Contractor shall provide and maintain Contractor's office and storage on Site in position as approved by S.O. and as specified.                                                                                                                                                                          |             |
| J    | <b>Traffic Management Plant</b>                                                                                                                                                                                                                                                                              |             |
|      | The Contractor shall provide and maintain adequate traffic safety and control including signages, warning lights and flagmen as necessary.                                                                                                                                                                   |             |
|      | <b>TO COLLECTION</b>                                                                                                                                                                                                                                                                                         |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                              | AMOUNT (RM) |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|      | <b>Care And Protection Of Materials And Works</b>                                                                                                                                                                                                                                                                        |             |
| A    | The Contractor shall provide and maintain everything necessary for proper protection of materials and works from any damage by weather.                                                                                                                                                                                  |             |
|      | <b>Shop Drawings, Sample And Mock-ups</b>                                                                                                                                                                                                                                                                                |             |
| B    | The Contractor shall submit relevant shop drawings, samples of materials or                                                                                                                                                                                                                                              |             |
|      | <b>Progress Photographs</b>                                                                                                                                                                                                                                                                                              |             |
| C    | The Contractor shall take progress photographs and submit to the S.O. as specified.                                                                                                                                                                                                                                      |             |
|      | <b>Material Testing Laboratory And Staff</b>                                                                                                                                                                                                                                                                             |             |
| D    | The Contractor shall provide/erect a testing laboratory within the site or rent a premise or propose an accredited laboratory approved by SIRIM as specified. The Laboratory shall be equipped with the necessary equipment required to carry out the tests as identified in APPENDIX A/4 (List of Laboratory Equipment) |             |
|      | <b>Office Accommodation For S.O</b>                                                                                                                                                                                                                                                                                      |             |
| E    | The Contractor shall provide and maintain a site office or relocatable site office or rent a premise for the use of the JKR supervisory staff which shall meet the requirement of the JKR design as specified.                                                                                                           |             |
|      | <b>Telephone S.O.</b>                                                                                                                                                                                                                                                                                                    |             |
| F    | <del>The Contractor shall provide a permanent telephone at the S.O.'s site office for the sole use of the S.O. and his representative as specified.</del>                                                                                                                                                                |             |
|      | <b>Survey Instrument And Personnel</b>                                                                                                                                                                                                                                                                                   |             |
| G    | The Contractor shall provide all such instrument, equipment and survey personnel as specified throughout the duration of the original Contract Period until 6 months after the issuance of the Certificate of Practical completion as per SO required.                                                                   |             |
|      | <b>TO COLLECTION</b>                                                                                                                                                                                                                                                                                                     |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                               | AMOUNT (RM) |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|      | <b>Site Items for S.O./Office Equipment And Facilities</b>                                                                                                                                                                                                                                                                                                |             |
| A    | The Contractor shall provide all Personal Protective Equipment required for the use of the S.O. and his supervisory staff complete as specified and complying with DOSH requirement. (APPENDIX A/1A)                                                                                                                                                      |             |
| B    | The contractor shall provide suitable types of fire extinguishers as specified.                                                                                                                                                                                                                                                                           |             |
| C    | <del>The Contractor shall provide the equipment and facilities as listed as specified in APPENDIX A/2 for the use of the S.O., his representatives and staff throughout the duration of the original Contract Period.</del>                                                                                                                               |             |
| D    | <del>The contractor shall provide suitable transportation service by means of vehicle(s) including licensed and competent driver(s) as specified in APPENDIX A/3 throughout the duration of the original Contract Period.</del>                                                                                                                           |             |
|      | <b>Safe Working Area</b>                                                                                                                                                                                                                                                                                                                                  |             |
| E    | The contractor shall supply, erect, maintain and remove on completion of the Works, scaffolding and working platform with safety nettings, catch platforms, safety barricades, fencing, railing, screen wire netting and toe board, guardrails or board fences and sufficient illuminations, all as specified.                                            |             |
| F    | The Contractor shall supply, erect, maintain and remove on completion of the Works, adequate, protective and security hoarding, scaffolding and working platform with safety nettings and such other safety measures necessary to ensure the safety of the workers, personnel, public and others at or within the vicinity of the Site, all as specified. |             |
|      | <b>Safety, Health and Welfare</b>                                                                                                                                                                                                                                                                                                                         |             |
| G    | The contractor shall ensure the safety, health and welfare at work site as specified including but not limited to :<br><br>a) Provision of First Aid Kit<br><br>b) Pest control including keeping the site clean and dry to prevent breeding of mosquitoes, rodents, insects and vermin of any kind.<br><br>c) Fogging at regular intervals.              |             |
| H    | The Contractor shall employ a Site Safety Supervisor (SSS) register with DOSH to be stationed a minimum of 15 hours a week at the site for the entire duration of the construction period.                                                                                                                                                                |             |
|      | <b>TO COLLECTION</b>                                                                                                                                                                                                                                                                                                                                      |             |

| ITEM                     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AMOUNT (RM)       |                                        |                          |                    |                      |                    |  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------|--------------------------|--------------------|----------------------|--------------------|--|
|                          | <b>Safety, Health and Welfare (Sambungan)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                        |                          |                    |                      |                    |  |
| A                        | The Contractor shall submit 5 copies of Safety and Health Plan (S-Plan) as required in APPENDIX A/5 as specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                                        |                          |                    |                      |                    |  |
| B                        | The contractor shall submit 5 copies of monthly Safety and Health Report as required in APPENDIX A/6 as specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                        |                          |                    |                      |                    |  |
| C                        | The Contractor shall provide and maintain adequate traffic safety and control including signages, warning lights and flagmen as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                        |                          |                    |                      |                    |  |
|                          | <b>Keeping The Site Tidy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                                        |                          |                    |                      |                    |  |
| D                        | The Contractor shall make every effort to keep site in the reasonable clean and tidy condition for the duration of works as specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                        |                          |                    |                      |                    |  |
|                          | <b>Coordination Of Mechanical And Electrical (M&amp;E) Services</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                        |                          |                    |                      |                    |  |
| E                        | <del>The Contractor shall be responsible for coordinating the implementation of all M &amp; E works as specified and appoint M &amp; E Services Coordinator Based on project cost as follows :-</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                        |                          |                    |                      |                    |  |
|                          | <table><tr><td>Project Cost (RM)</td><td>Minimum Requirement Of M&amp;E Coordinator</td></tr><tr><td>Between 10 to 50 million</td><td>1 Engineer &amp; 1 COW</td></tr><tr><td>More than 50 million</td><td>1 Engineer &amp; 2 COW</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Project Cost (RM) | Minimum Requirement Of M&E Coordinator | Between 10 to 50 million | 1 Engineer & 1 COW | More than 50 million | 1 Engineer & 2 COW |  |
| Project Cost (RM)        | Minimum Requirement Of M&E Coordinator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                        |                          |                    |                      |                    |  |
| Between 10 to 50 million | 1 Engineer & 1 COW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                        |                          |                    |                      |                    |  |
| More than 50 million     | 1 Engineer & 2 COW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                        |                          |                    |                      |                    |  |
|                          | <b>As Build Drawings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                        |                          |                    |                      |                    |  |
| F                        | Pursuant to the terms of the contract, the Contractor shall provide approved As-built drawings as follows:<br><br>1. Four (4) sets of As-built drawings as actually constructed pertaining to the Works including all services and facilities systems and all supporting documents such as Operation and Maintenance Manual, Testing and Commissioning Certificates.<br><br>2. Four (4) sets of Digital Copies in AutoCAD (.dwg) format to be stored in compact discs or removable storage.<br><br>3. Four (4) sets of Digital Copies in Acrobat (.pdf) format to be stored in compact discs or removable storage.<br><br>The As-built drawings shall be submitted by the Contractor to the satisfaction of the S.O as to allow for a complete understanding of the Works as they were actually built. |                   |                                        |                          |                    |                      |                    |  |
|                          | <b>TO COLLECTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                                        |                          |                    |                      |                    |  |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AMOUNT (RM) |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|      | <p><b>Clearing, Cleaning And Making Good on Completion</b></p> <p>A The Contractor shall clear and clean the Works including existing roads, drains bounding the site of any debris, earth, et cetera, and making good all damages upon completion as specified.</p> <p><b>Form of Contract</b></p> <p>B The Contractor shall refer to the standard form of contract for further information. The contractor may price here for all the expense involved in complying with the terms of these Clauses, otherwise such expenses are deemed to be included elsewhere.</p> <p><b><u>Clause No. 13</u></b></p> <p>C <b>Performance Bond</b></p> <p>For due observance and performance of this contract the Contractor shall have to provide:</p> <p>Performance bond in the form of an approved Bank or Insurance Guarantee equal to five percent (5%) of the contract sum to be deposited with the Government as a condition precedent to the commencement of any work under this contract.</p> <p>The performance Bond shall remain valid and effective for the duration as specified in the Contract.</p> <p><b><u>Clause No. 15</u></b></p> <p>D Insurance Against Personal injuries and Damage to Property</p> <p><b><u>Clause No. 16</u></b></p> <p>E Indemnities to Government in Respect of Claim by Workmen</p> <p><b><u>Clause No. 17</u></b></p> <p>F Employees' Social Security Act, 1969</p> <p><b><u>Clause No. 18</u></b></p> <p>G Insurance of Works</p> |             |
|      | <b>TO COLLECTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AMOUNT (RM) |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|      | <p><b>Form of Contract (Cont'd)</b></p> <p><b><u>Clause No. 22</u></b></p> <p>A Design, Sub-clause No. 22.2 - Design Guarantee Bond Design Guarantee Bond substantially in the form of Bank Guarantee for Design Guarantee Bond (PWD DGB 1/2011) appended in the Tender Document.</p> <p><b><u>Clause No. 35</u></b></p> <p>B Materials, Goods and Workmanship - Opening up of work for inspection or testing of material or goods.</p> <p><b><u>Clause No. 59 - Site Agent And Assistants</u></b></p> <p>C The Contractor shall keep constantky on the site for full duration of the Contract a competent, efficient, suitably qualified, experienced and good character Site Agent and his assistants in each trade as may be necessary, who must capable of receiving instruction in Bahasa Malaysia and in default it shall be responsibility of the contractor to provide replacement for them and all wages and other expenses in connection with the employment of such replacement site agent and assistants. Any direction, explanation or instructions given to such site agent by the S.O. shall be deemed to have been given to the Contractor under this contract. Provide all necessary superintending order.</p> |             |
|      | <b>TO COLLECTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |

| ITEM                                      | DESCRIPTION                                                                                                                                                                                                                    | AMOUNT (RM) |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                                           | <p><b>BIL.1.0 : KEHENDAK PERMULAAN &amp; SYARAT-SYARAT AM</b></p> <p><b><u>COLLECTION :-</u></b></p> <p>Page A1/6</p> <p>Page A1/7</p> <p>Page A1/8</p> <p>Page A1/9</p> <p>Page A1/10</p> <p>Page A1/11</p> <p>Page A1/12</p> |             |
| <b>JUMLAH DI BAWA KE RINGKASAN TENDER</b> |                                                                                                                                                                                                                                |             |

## APPENDIX A1/A

## LIST OF ESTIMATED QUANTITY FOR S.O'S PERSONAL PROTECTIVE EQUIPMENT (PPE)

| No. | Items                                                 | Cost of Projects |                        |                           |              |
|-----|-------------------------------------------------------|------------------|------------------------|---------------------------|--------------|
|     |                                                       | < RM 5 Mil.      | RM 5 Mil. – RM 20 Mil. | > RM 20 Mil. – RM 50 Mil. | > RM 50 Mil. |
| 1.  | Safety Boots                                          | 5 pairs          | 10 pairs               | 15 pairs                  | 20 pairs     |
| 2.  | Safety Helmets                                        | 5 pcs            | 10 pcs                 | 15 pcs                    | 20 pcs       |
| 3.  | Full Body Harness (for working at height) If required | If required      | If required            | If required               | If required  |
| 4.  | Protective gloves                                     | If required      | If required            | If required               | If required  |
| 5.  | Safety Goggles                                        | If required      | If required            | If required               | If required  |
| 6.  | Safety Jackets of reflective type                     | If required      | If required            | If required               | If required  |
| 7.  | Ear plugs and muffs                                   | If required      | If required            | If required               | If required  |
| 8.  | Dust masks                                            | If required      | If required            | If required               | If required  |
| 9.  | Head lamp                                             | If required      | If required            | If required               | If required  |
| 10. | ..... (insert other item if required)                 |                  |                        |                           |              |
|     |                                                       |                  |                        |                           |              |
|     |                                                       |                  |                        |                           |              |
|     |                                                       |                  |                        |                           |              |

\* The Contractor shall provide necessary space/ furniture for storage

**LIST OF S.O'S FACILITIES AND EQUIPMENT**

1. Safety Shoes - 5 pairs
2. Safety Helmets - 5 pieces
3. Safety Jackets -
4. Head Lamp -
5. Protective Glove -
6. A fully air-conditioned site office
7. A prayer room including ablution taps within the site office
8. All office furniture and equipment such as tables, chairs, cabinets, plan chest and racks, pin-up board for the office and meeting room in sufficient quantity and quality.
9. Light fittings, water and electricity supply
10. ~~Toilet facilities consisting of W.C., urinal, shower and wash basins, solely for the use of S.O. and his staff.~~

**APPENDIX A/3**

**APPENDIX A/4**

**REQUIREMENT OF SAFETY AND HEALTH PLAN (S-PLAN)**

1. Project introduction and scope of Works associated with OSH;
2. Contractor's authorised and updated OSH policy;
3. Contractor's organisation chart and Safety and Health Committee (SHC) chart which shall describing the staff involved including list of duties and responsibilities.
4. Communication, consultation and involvement of each member of the contractor's project team as shown in the team (c), including their relationship, interfacings and cooperation of workmen for successful implementation of the project. The planning shall taking account control of any OSH related complaints, advise, OSH programmed and awareness, SHC meeting's schedule, and solving OSH related issues;
5. Contractor's authorised update sompliance list on OSH legislation and other OSH related issues;
6. List of prohibited foods and drinks including drugs and medicines;
7. List of Personal Protective Equipment at works;
8. Schedule of OSH Trainings and Programmed to all workmen including sub-contractor;
9. Emergency Response Plan;
10. Safe work system on temporary electrical installation works;
11. Safe Operational Procedures;
12. Format of incident investigation report;
13. Format of daily reporting on incident statistic;
14. Chemical safety data sheet or material safety data sheet;
15. Health precaution on workmen: Medical Report (Health Surveillance), Noiseprevention;
16. Sanitation for workmen;
17. Safety signage and traffic control;
18. Hazard identification, Risk Assessment and Risk Control (HIRARC)

### REQUIREMENT OF SAFETY AND HEALTH REPORT

1. Related OSH Programme;
2. Incident statistic from daily notification of any accidents, near misses, lost time injuries, death and ill health with action taken; in accordance with OSH (Notification of Accident, Dangerous Occurrence, Occupational Poisoning and Occupational Disease) Regulations 2004. The contractor shall be held solely responsible for all incidents arising from any negligence in this respect;
3. Related OSH issues on complaints, Non-compliance, damages and actions taken;
4. Status on S-Plan and HIRARAC;
5. List of workmen permit, CIDB Green Card, tools and machineries;
6. Traffic and other related safety control.

## APPENDIX A/7

TABLE A2 : ENVIRONMENTAL QUALITY STANDARDS TO BE COMPLIED WITH BY THE CONTRACTOR

| Aspects                | Parameter                                                                    | JKR EMS Set Target                                                                                 | Environment Quality (Sewage) Regulations, 2009                                                                 |            | National Water Quality Standards (NWQS) |                      |
|------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------|----------------------|
|                        |                                                                              |                                                                                                    | Standard A                                                                                                     | Standard B | Class IIA                               | Class IIB            |
| Soil                   | Soil loss                                                                    | Minimum earthwork<br>Phase construction ≤ 6 berms/benches for slopes (≤ 6m per berm) Reuse topsoil |                                                                                                                |            |                                         |                      |
| Water <sup>1,2</sup>   | Turbidity                                                                    | ≤ 200 NTU                                                                                          | -                                                                                                              | -          | ≤ 50 NTU                                |                      |
|                        | Suspended Solid                                                              | ≤ 100 mg/l                                                                                         | ≤ 50 mg/l                                                                                                      | ≤ 100 mg/l | ≤ 50 mg/l                               |                      |
|                        | Biochemical Oxygen Demand <sub>5</sub> @ 20°C (BOD) <sub>5</sub>             | ≤ 50 mg/l                                                                                          | ≤ 20 mg/l                                                                                                      | ≤ 50 mg/l  | ≤ 3 mg/l                                |                      |
|                        | Chemical Oxygen Demand (COD)                                                 | ≤ 100 mg/l                                                                                         | ≤ 120 mg/l                                                                                                     | ≤ 200 mg/l | ≤ 25 mg/l                               |                      |
|                        | pH                                                                           | 5.5 – 9                                                                                            | 6 – 9                                                                                                          | 5.5 – 9    | 6-9                                     |                      |
|                        | E-Coli                                                                       | ≤ 400 counts / 100 ml                                                                              | -                                                                                                              | -          | ≤100 counts/ 100ml                      | ≤400 counts / 100 ml |
|                        | Dissolved Oxygen (DO)                                                        | ≥ 4 mg/l                                                                                           | -                                                                                                              | -          | 5-7 mg/l                                |                      |
|                        | Oil and Grease                                                               | ≤ 10 mg/l                                                                                          | ≤ 5 mg/l                                                                                                       | ≤ 10mg/l   | ≤ 40 µg /l, N                           |                      |
|                        | Ammoniacal Nitrogen (river)                                                  | -                                                                                                  | ≤ 10 mg/l                                                                                                      | ≤ 20mg/l   | ≤ 0.3 mg /l                             |                      |
| Air <sup>3</sup>       | Total Suspended Particulate (TSP) (24hr)<br>Particulate Matter (PM10) (24hr) |                                                                                                    | ≤260 µg/m <sup>3</sup> /day<br>≤150 µg/m <sup>3</sup> /day                                                     |            |                                         |                      |
| Noise <sup>4</sup>     | Equivalent Noise Level (L <sub>eq</sub> ), L <sub>10</sub> , L <sub>90</sub> |                                                                                                    | Receiving Land Use (residential)                                                                               |            |                                         |                      |
|                        |                                                                              |                                                                                                    | Day time (7.00 am – 7.00 pm )<br>L <sub>90</sub> ≤ 60 dBA; L <sub>10</sub> ≤75 dBA; L <sub>max</sub> ≤ 90 dBA; |            |                                         |                      |
|                        |                                                                              |                                                                                                    | Evening (7.00 pm – 10.00 pm)<br>L <sub>90</sub> ≤55 dBA; L <sub>10</sub> ≤70 dBA; L <sub>max</sub> ≤ 85 dBA;   |            |                                         |                      |
|                        |                                                                              |                                                                                                    | Night time (10.00 pm – 7.00 am)<br>Noise Sensitive Areas : L <sub>Aeq</sub> ≤40 dBA                            |            |                                         |                      |
|                        |                                                                              |                                                                                                    | Suburban Areas : L <sub>Aeq</sub> ≤ 45 dBA<br>Urban Areas : L <sub>Aeq</sub> ≤ 50 dBA                          |            |                                         |                      |
| Vibration <sup>5</sup> | Vertical Vibration Peak Velocity (mm/s)                                      |                                                                                                    | Not more than 3 mm/s at receiver location or across real property boundary.                                    |            |                                         |                      |

## Reference:

1) 2nd Schedule (Regulation 7), Environmental Quality (Sewage) Regulations 2009, Environmental Quality Act 1974.

(i) Standard A: For location with downstream water intake

(ii) Standard B: For location with no downstream water intake

2) National Water Quality Standards for Malaysia

(i) Class IIA: Water Supply II – conventional treatment required

a) Fishery II – sensitive aquatic species

(ii) Class IIB: Recreational use with body contact

3) Recommended Malaysian Guidelines on Ambient Air Quality

4) Schedule 1 & Schedule 6, Planning Guidelines for Environmental Noise Limits & Control, (DOE, 2004)

5) Planning Guidelines for Vibration Limits and Control of the Environment (DOE, 2004)

Note: N - No visible floatable materials or debris or no objectionable odour, or no objectionable taste

| BIL.                               | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 2.0                                | KERJA - KERJA ASAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |     |            |             |
| 2.1                                | Kerja Asas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |            |             |
|                                    | <b>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan Lukisan seperti dalam senarai lukisan dan Spesifikasi yang berkaitan.</b>                                                                                                                                                                                                                                                                                                            |      |     |            |             |
| A                                  | Membina dan menyiapkan keseluruhan struktur asas pad (pad footing), tiang tunggal (column stump), termasuk korekan dan <i>shoring</i> , pemasangan besi tetulang, papan acuan, lean concrete, memadat konkrit serta kerja-kerja lain yang berkaitan. Kontraktor perlu membuat ujian Pengesahan Proba sebelum pembinaan asas pad. Kerja yang dilaksanakan hendaklah mengikut Spesifikasi JKR dan kelulusan Pegawai Penguasa (PP) serta semua kerja yang diperlukan merujuk kepada senarai lukisan berkaitan. | LS   |     |            |             |
| B                                  | <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br><br>.....<br><br>.....                                                                                                                                                                                                                                                                                             | LS   |     |            |             |
| JUMLAH DI BAWA KE RINGKASAN TENDER |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |            |             |

| BIL.                                      | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                     | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| <b>3.0</b>                                | <b>KERJA BANGUNAN TAMBAHAN (TIDAK TERMASUK PERKHIDMATAN DALAMAN)</b>                                                                                                                                                                                                                                                                                                              |      |     |            |             |
| <b>3.1</b>                                | <b>Kerja Membina Bangunan</b>                                                                                                                                                                                                                                                                                                                                                     |      |     |            |             |
|                                           | <b>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan Lukisan seperti dalam senarai lukisan dan Spesifikasi yang berkaitan.</b>                                                                                                                                                                                  |      |     |            |             |
| A                                         | Membina dan menyiapkan keseluruhan blok bangunan tambahan dan lain-lain kerja berkaitan yang disertakan dalam dokumen tender ini berdasarkan spesifikasi dan senarai lukisan berkaitan.                                                                                                                                                                                           | LS   |     |            |             |
| <b>3.2</b>                                | <b>Tangki SPAH</b>                                                                                                                                                                                                                                                                                                                                                                |      |     |            |             |
| B                                         | Kerja-kerja membina Tangki SPAH berketinggian 1200mm , dengan 560mm diameter 'Cylinder Rain Harvesting Tank' berkapasiti 300 liter jenis FRP dengan platform alas konkrit (concrete plinth) berukuran 800 x 800 x 600mm (H) termasuk segala peralatan kelengkapan mengikut Spesifikasi Piawai dan senarai lukisan berkaitan.                                                      | LS   |     |            |             |
| <b>3.3</b>                                | <b>Rawatan Pencegahan Anai-Anai</b>                                                                                                                                                                                                                                                                                                                                               |      |     |            |             |
|                                           | <b>Keseluruhan kerja rawatan anai-anai hendaklah dijalankan oleh syarikat kawalan anai-anai yang diluluskan oleh Pegawai Penguasa (PP).</b>                                                                                                                                                                                                                                       |      |     |            |             |
| C                                         | Kerja-kerja menyembur racun pencegah anai-anai berserta jaminan 2 tahun selepas CPC secara empat (4) peringkat untuk bangunan dan kaki lima termasuk struktur asas pad (pad footing), tiang tunggal (colump stump), rasuk tanah (ground beams), papak tanah (ground floor slabs), <i>Apron</i> dan lain-lain struktur mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan. | LS   |     |            |             |
| <b>3.4</b>                                | <b>Damp Proof Membrane (DPM)</b>                                                                                                                                                                                                                                                                                                                                                  |      |     |            |             |
| D                                         | Membekal dan memasang lapisan membran kalis lembap, diletakkan di atas 'lean concrete' diikat dengan baik pada sambungan dan kedap dengan 'pressure adhesive tapes' termasuk semua perlindungan yang diperlukan untuk mengelakkan tusukan (measured nett-no allowance made for laps).                                                                                             | LS   |     |            |             |
| E                                         | <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>.....                                                                                                                                                                           | LS   |     |            |             |
| <b>JUMLAH DI BAWA KE RINGKASAN TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                   |      |     |            |             |

| BIL.                 | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 4.0                  | <b>PERKHIDMATAN DALAMAN</b><br><br><b><u>PLUMBING AND MECHANICAL ENGINEERING INSTALLATIONS</u></b><br><br><b>NOTE : The whole works are to be carried out in approved manner by the S.O and in conjunction with relevant drawing as per list of drawing &amp; specification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |            |             |
| 4.1                  | <b>COLD WATER INSTALLATION; PIPEWORKS</b><br><br>The cold water supply installation shall be install in accordance with related M&E Engineer Drawing and all other relevent drawing and to the local Authorities requirement<br><br>All visible pipeworks shall be painted with approved paint<br><br>All pipes passing through RC floor slab, walls, beams, etc, shall include pipe sleeve one diameters large with and including all necessary extra reinforcement and shall be sealed with approved fire resisting material and shall be watertight finished.<br><br>The contractor shall be responsible to liaise with the authorities for inspection, approval of complete works, connection of permanent supply and pay all fees related to the installation.<br><br>Note:<br>Notwithstanding the Standard Method of Measurement the following items are being measured on a descriptive lump sum and enumerated<br><br>Testing and commissioning, approval from local authority and contruction drawing for all is measured and to be priced as a whole under this bill.<br><br><b>COLD WATER SYSTEM, INTERNALLY</b><br><br><b>Polypropylene Random Co-Polymer (PP-R) pipes and fittings as specified</b> |      |     |            |             |
| A                    | To supply, deliver and install internal cold water reticulation pipework for gravity system (PP-R PN10) from storage tank to sanitary appliances including riser, droppers, branch pipes, fitting, stop cock (chrome plated) complete with necessary connectors and accessories. Connection to each sanitary fixture should come with an individual check valve. Refer drawing <b>No. PPKI / BKT3 / JKR / MEK / ICW - 01 to PPKI / BKT3 / JKR / MEK / ICW - 06</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LOT  |     |            |             |
| B                    | From and including first stopcock from incoming mains to water storage tanks to sanitary appliances and scour and overflow pipes from water storage tanks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ITEM |     |            |             |
| <b>TO COLLECTION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |            |             |

| BIL.                 | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                            | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
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| 4.0                  | <b>PERKHIDMATAN DALAMAN</b><br><br><b>NOTE : The whole works are to be carried out in approved manner by the S.O and in conjunction with relevant drawing as per list of drawing &amp; specification</b>                                                                                                                                                                                                 |      |     |            |             |
| 4.2                  | <b>STORAGE WATER TANK</b><br><br>High Desity Polythylene (HDPE) water tank as specified complete with all accessories and fitting of approved manufacturer to JBA approval, hoisted and placed in position at approximately 7000mm above ground level in accordance to manufacturer's instruction all as per drawing <b>No. PPKI / BKT3 / JKR / MEK / ICW - 01 to PPKI / BKT3 / JKR / MEK / ICW - 06</b> |      |     |            |             |
| A                    | i. Tandas Lelaki & Tandas Perempuan ( 800 gallons)<br><br><b>SANITARY INSTALLATION PIPEWORK</b>                                                                                                                                                                                                                                                                                                          | NOS  | 2   |            |             |
| B                    | All pipes and fittings as shown in the Mechanical drawing <b>No. PPKI / BKT3 / JKR / MEK / SAN - 01 to PPKI / BKT3 / JKR / MEK / SAN - 07</b> and accordance with manufacturers intruction and SIRIM approval.<br><br><b>MISCELLANEOUS</b>                                                                                                                                                               | ITEM |     |            |             |
| C                    | Piping, fittings & drain pipe to the nearest drain, pressure gauges, accessories, etc.                                                                                                                                                                                                                                                                                                                   | LOT  |     |            |             |
| D                    | Painting and all civil works necessary to complete installation of the above system include coring of floor, wall, hacking, digging, drilling, cart away debris, etc. and making good to S.O satisfaction.<br><br><b>TESTING &amp; COMMISIONING</b><br><br>Soil, Waste and Cold Water Installation<br><br><b>Cold Water Installation</b>                                                                 | LOT  |     |            |             |
| E                    | On complete of the plumbing installation test all cold water piping and make good any defect and leave the whole in perfect working order to the entire satisfaction of the Superintending Officer<br><br><b>Sanitary Installation</b>                                                                                                                                                                   | ITEM |     |            |             |
| F                    | On completion of the sanitary installation test all appliances and fitting, make good any defect and leave the whole in perfect working order to approval of the Superintending Officer                                                                                                                                                                                                                  | ITEM |     |            |             |
| <b>TO COLLECTION</b> |                                                                                                                                                                                                                                                                                                                                                                                                          |      |     |            |             |

| BIL. | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNIT                                                            | QTY | KADAR (RM) | JUMLAH (RM) |
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| 4.0  | <p><b>PERKHIDMATAN DALAMAN</b></p> <p><b>NOTE : The whole works are to be carried out in approved manner by the S.O and in conjunction with relevant drawing as per list of drawing &amp; specification</b></p> <p><b>APPROVAL FROM LOCAL WATER AUTHORITY</b></p> <p>A Submission fees for drawing approval by Local Water Authority.</p> <p>B All other fees pertaining to Local Water Authority requirements regarding Internal Cold Water Plumbing System Approval.</p> <p><b>DRAWINGS</b></p> <p>C To provide of four (4) sets of construction drawings and to be endorsed by Competent Plumber (Registered with SPAN/JBA/Local Authority) before start work, original catalog of materials with approval from Local Authority and sample board set for the specified internal cold water and sanitary plumbing works.</p> <p>D Supply of one (1) set as-built drawings in interdediate and in CD (CAD Release Latest Edition)</p> <p>E Supply of four (4) sets operation and maintenance Manual for the specified cold water plumbing, sanitary and rainwater harvesting system work.</p> <p>F <u>Any other item not included above but describe/shown in the specification or drawings which deemed to be necessary for due completion of the works:-</u></p> <p>.....</p> <p>.....</p> | <p>ITEM</p> <p>ITEM</p> <p>LS</p> <p>LS</p> <p>LS</p> <p>LS</p> |     |            |             |
|      | TO COLLECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |     |            |             |

| BIL.                               | PERIHAL KERJA                                                                                                                   | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 4.0                                | <div>PERKHIDMATAN DALAMAN</div> <div><div>COLLECTION :-</div><div>Page P4/1</div><div>Page P4/2</div><div>Page P4/3</div></div> |      |     |            |             |
| JUMLAH DI BAWA KE RINGKASAN TENDER |                                                                                                                                 |      |     |            |             |

| BIL.                                      | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
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| 5.0                                       | <b><u>KERJA BUMBUNG</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |            |             |
| 5.1                                       | <b>Merekabentuk, membekal dan Memasang Kerangka Bumbung Keluli (Prefabricated Cold Formed Steel Roof Trusses)</b><br><br><b>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan Lukisan seperti dalam senarai lukisan dan Spesifikasi yang berkaitan.</b>                                                                                                                                                                                                                                                                                                                                           |      |     |            |             |
| A                                         | Merekabentuk, membekal, memasang dan menyiapkan kerangka bumbung jenis logam (Prefabricated Cold Formed Steel Roof Trusses) jenis Hot Dipped Zinc Coated untuk blok bangunan tambahan dan menyediakan lukisan struktur untuk kerangka bumbung berdasarkan lukisan arkitek dan lain-lain lukisan. Kerja-kerja merekabentuk perlu mengambilkira keperluan beban sistem mekanikal dan elektrik dan lain-lain keperluan yang berkaitan. Kerja-kerja merekabentuk struktur mestilah terdiri dari pembekal yang telah disenaraikan di dalam Senarai Pembekal Sistem Kekuda Bumbung dan semua lukisan perlu ditandatangani dan dicop oleh Jurutera Profesional Bertauliah. | LS   |     |            |             |
| B                                         | Membekal dan memasang kemas bumbung jenis Concrete Tiles Roof termasuk aksesori perabung, satu lapisan fire retardant aluminium reflective foil double sided, chicken wire mesh dan lapisan rockwool (rujuk pengeluar) mengikut spesifikasi JKR dengan kelulusan Arkitek dan Pegawai Penguasa (PP).                                                                                                                                                                                                                                                                                                                                                                 | LS   |     |            |             |
| C                                         | Bon Jaminan Rekabentuk (pihak kontraktor perlu mengemukakan Bon Jaminan Rekabentuk yang bernilai 5% daripada nilai rekabentuk selama 5 tahun (Rujuk Klaus 22.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LS   |     |            |             |
| D                                         | <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>.....                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LS   |     |            |             |
| <b>JUMLAH DI BAWA KE RINGKASAN TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     |            |             |

| BIL.                 | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNIT | QTY  | KADAR (RM) | JUMLAH (RM) |
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| 6.0                  | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |            |             |
| 6.1                  | <b><u>Penyediaan Tapak, Kerja-Kerja Tanah Dan Pemotongan Pokok</u></b><br><br><p>Nota : Kontraktor dikehendaki memeriksa tapak sebelum mengemukakan tendernya untuk mengetahui dan memastikan sendiri jenis dan tahap kerja dan keadaan tapak yang boleh menjejaskan kerja kontrak kerana tiada bayaran tambahan akibat kekurangan pengetahuan akan dipertimbangkan.</p> <p>Adalah menjadi tanggungjawab petender untuk berpuas hati bahawa maklumat yang diberikan di sini untuk penyediaan tapak dan kerja tanah adalah mencukupi dan betul</p> <p>Kontraktor dikehendaki menyemak tahap platform dan menghasilkan lukisan survey yang disahkan oleh juruukur berlesen</p> <p>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan Lukisan seperti dalam senarai lukisan dan Spesifikasi yang berkaitan.</p> <p><b><u>Pembersihan Tapak dan Pengorekan</u></b></p> <p>A Membersih kawasan keseluruhan tapak pembinaan dengan memotong, dan mengalihkan semua lebihan bahan yang dikorek di luar tapak ke tempat pembuangan Kontraktor sendiri dan mengorek untuk mendapatkan tahap pembentukan, memuatkan dan mengangkut bahan yang dikorek untuk kawasan pengisian sementara di dalam tapak.</p> <p><b><u>Kerja-kerja Tanah</u></b></p> <p>B Mengisi tanah import (suitable material) yang diluluskan oleh Pegawai Penguasa (PP), diperoleh daripada sumber kontraktor sendiri, diratakan dan dipadatkan sehingga ke aras pembentukan.</p> <p>C Menguji keseluruhan untuk menentukan tahap pemadatan termasuk semua ujian yang diperlukan untuk mencapai pemadatan darjah yang diperlukan dan semua ujian makmal atau insitu yang diperlukan semasa kerja tanah seperti yang diarahkan oleh Pegawai Penguasa (PP) mengikut spesifikasi.</p> | LS   |      |            |             |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | M3   | 2377 |            |             |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LS   |      |            |             |
| <b>TO COLLECTION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |            |             |

| BIL.                 | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UNIT | QTY | KADAR<br>(RM) | JUMLAH (RM) |
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| 6.0                  | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |               |             |
| 6.1                  | <b><u>Penyediaan Tapak, Kerja-Kerja Tanah Dan Pemotongan Pokok (samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan Lukisan seperti dalam senarai lukisan dan Spesifikasi yang berkaitan.<br><br><u>Pemotongan Pokok</u><br><br>A Kerja-kerja memotong, menebang dan membersihkan pokok sedia ada termasuk mencabut tunggul, akar serta lain-lain kerja berkaitan, dan membuang semua yang serupa dari tapak ke tempat pembuangan kontraktor sendiri. Kontraktor hendaklah merujuk kepada Pihak Berkuasa yang berkaitan (jika perlu) sebelum menjalankan kerja.<br><br>i) Tidak melebihi ukurliliti 2.0 meter<br><br>ii) Tidak melebihi ukurliliti 3.0 meter<br><br>B <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br><br>.....<br><br>..... |      |     |               |             |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NO   | 26  |               |             |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NO   | 4   |               |             |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LS   |     |               |             |
| <b>TO COLLECTION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |               |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                        | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
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| 6.0           | <b>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan Lukisan seperti dalam senarai lukisan dan Spesifikasi yang berkaitan.                                                                                                                   |      |     |            |             |
| 6.2           | <b><u>Sistem Retikulasi</u></b><br><br><b><u>Kerja-Kerja Pengorekan</u></b><br><br><u>Membekal dan memasang semua sistem retikulasi air yang diperlukan lengkap dengan ujian dan pentauliahan sistem termasuk semua komponen atau kerja yang diperlukan mengikut 'fix for purpose' dan mematuhi semua spesifikasi dan peraturan serta senarai lukisan berkaitan.</u> |      |     |            |             |
| A             | Mengorek lubang untuk menerima paip berdiameter 150mm; melebihi kedalaman 1.0m tetapi tidak melebihi kedalaman 2.0m untuk paip domestik jenis MSCL.                                                                                                                                                                                                                  | M    | 128 |            |             |
| B             | Mengorek lubang untuk menerima paip berdiameter 150mm; melebihi kedalaman 1.0m tetapi tidak melebihi kedalaman 2.0m untuk paip saluran BOMBA jenis MSCL.                                                                                                                                                                                                             | M    | 250 |            |             |
|               | <b><u>Kerja Paip</u></b>                                                                                                                                                                                                                                                                                                                                             |      |     |            |             |
| C             | Paip domestik '150mm diameter Mild Steel Cement Lining (MSCL) diletakkan dan disambung dalam parit termasuk semua kelengkapan yang diperlukan seperti yang diarahkan oleh Pegawai Penguasa (PP).                                                                                                                                                                     | M    | 128 |            |             |
| D             | 150mm diameter Mild Steel Cement Lining (MSCL) paip BOMBA diletakkan dan disambung dalam parit termasuk semua kelengkapan yang diperlukan seperti yang diarahkan oleh Pegawai Penguasa (PP).                                                                                                                                                                         | M    | 250 |            |             |
|               | <b><u>Fitting</u></b>                                                                                                                                                                                                                                                                                                                                                |      |     |            |             |
| E             | <i>Sluice Valve</i> berdiameter 150mm termasuk ruang dan bingkai dan semua keperluan pengecatan, pengorekan, <i>screed</i> , dan pelupusan bahan yang digali yang diperlukan.                                                                                                                                                                                        | NO   | 1   |            |             |
| F             | <i>Scour Valve</i> berdiameter 150mm termasuk ruang dan bingkai dan semua keperluan pengecatan, pengorekan, <i>screed</i> , dan pelupusan bahan yang digali yang diperlukan.                                                                                                                                                                                         | NO   | 1   |            |             |
| G             | <i>S Bend</i> berdiameter 50mm termasuk injap udara diameter 50mm dan bingkai semua keperluan pengecatan, pengorekan, <i>screed</i> dan pelupusan bahan yang digali yang diperlukan.                                                                                                                                                                                 | NO   | 1   |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                                                                                                      |      |     |            |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
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| 6.0           | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.                                                                                                                                                                                                                       |      |     |            |             |
| 6.2           | <b><u>Sistem Retikulasi (Samb.)</u></b><br><br><b><u>Pili Bomba (Fire Hydrant)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     |            |             |
| A             | Membekal dan memasang Pili Bomba 150mm diameter termasuk penyambungan ke tiang besi tuang dengan kepingan penyesuai flange, duckfoot bend dan disokong oleh blok anchor dengan semua penyambungan yang diperlukan, injap sluice 150mm termasuk chamber, mengecat hydrant dengan satu lapisan asas dan dua lapisan cat kuning berkilau, pengorekan, pengisian semula dan membuang tanah yang berlebihan dari tapak berdasarkan senarai lukisan yang berkaitan serta dengan kelulusan Pegawai Penguasa (PP). | NO   | 1   |            |             |
|               | <b><u>Penyambungan Kepada Paip Sedia Ada</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |            |             |
| B             | Menjalankan kerja penyambungan paip air sedia ada berdekatan Rumah Pam dan semua pengorekan yang diperlukan, kelengkapan paip MS, penyesuai dan aksesori yang diperlukan untuk penyambungan paip yang lengkap dan biarkan keseluruhan kerja dalam susunan kerja yang sempurna untuk kepuasan keseluruhan Pegawai Penguasa (PP) dan semuanya mengikut kehendak Pihak Berkuasa Tempatan.                                                                                                                     | ITEM |     |            |             |
|               | <b><u>Ujian (Testing)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |            |             |
| C             | Menjalankan ujian hidraulik semasa pembinaan dan setelah siap serta membaiki sebarang kecacatan yang berlaku sehingga sempurna untuk kelulusan Pegawai Penguasa (PP) dan Pihak Berkuasa Tempatan.                                                                                                                                                                                                                                                                                                          | ITEM |     |            |             |
| D             | Melaksanakan ujian tekanan air sebelum sambungan ke paip sedia ada.                                                                                                                                                                                                                                                                                                                                                                                                                                        | ITEM |     |            |             |
| E             | <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>.....                                                                                                                                                                                                                                                                                                    | LS   |     |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |     |            |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                               | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0           | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.                                                                                                                        |      |     |            |             |
| 6.3           | <b><u>Sistem Pembetulan</u></b><br><br>A Membekal dan memasang paip kotoran najis bersaiz 150mm diameter dari jenis paip tanah liat (vitrified clay pipe) saliran kotoran termasuk kerja pengorekan, penimbunan, pemadatan, kerja konkrit, papan acuan dan lain-lain kerja berkaitan mengikut senarai lukisan berkaitan dan spesifikasi piawai.                                                             | M    | 30  |            |             |
|               | B Membekal dan memasang paip kotoran najis bersaiz 225mm diameter dari jenis paip tanah liat (vitrified clay pipe) saliran kotoran termasuk kerja pengorekan, penimbunan, pemadatan, kerja konkrit, papan acuan dan lain-lain kerja berkaitan mengikut senarai lukisan berkaitan dan spesifikasi piawai.                                                                                                    | M    | 36  |            |             |
|               | <b><u>Sewerage Treatment Plant</u></b><br><br>C Kerja membina sistem pembetulan sementara semasa kerja-kerja pemeriksaan dan pembinaan/naiktaraf dilaksanakan mengikut syarat Indah Water Konsortium (IWK) serta semua kerja-kerja berkaitan berdasarkan spesifikasi, senarai lukisan, garis panduan IWK dan kelulusan Pegawai Penguasa (PP).                                                               | LS   |     |            |             |
|               | D Kerja memeriksa dan membina/menaiktaraf STP sedia ada dengan penyediaan laporan/kajian pengiraan rekabentuk bagi pematuhan syarat Indah Water Konsortium (IWK) serta semua kerja-kerja berkaitan termasuk kerja sambungan paip ke STP sedia ada, pembinaan struktur baharu mengikut rekabentuk pengeluar berdasarkan spesifikasi, senarai lukisan, garis panduan IWK dan kelulusan Pegawai Penguasa (PP). | LS   |     |            |             |
|               | <b><u>Inspection Chamber</u></b><br><br>E Membina dan menyiapkan lurang-lurang pemeriksaan (inspection chamber) dan semua kelengkapan serta kerja-kerja berkaitan mengikut senarai lukisan berkaitan, pelan sistem kumbahan, Spesifikasi Piawai, dan kelulusan Pegawai Penguasa (PP).                                                                                                                       | NO   | 6   |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |            |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                             | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0           | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.                                                                      |      |     |            |             |
| 6.3           | <b><u>Sistem Pembetulan (Samb.)</u></b><br><br><b><u>Manhole</u></b>                                                                                                                                                                                                                                                                                      |      |     |            |             |
| A             | Membekal dan membina Manhole termasuk heavy duty cover yang diluluskan oleh SPAN dan semua kelengkapan serta kerja-kerja berkaitan mengikut senarai lukisan berkaitan pelan sistem kumbahan, Spesifikasi Piawai, dan kelulusan Pegawai Penguasa (PP).                                                                                                     | NO   | 5   |            |             |
|               | <b><u>Kerja Menaiktaraf Pagar STP</u></b>                                                                                                                                                                                                                                                                                                                 |      |     |            |             |
| B             | Kerja-kerja meroboh pagar sedia ada serta membekal dan memasang pagar bata beserta rasuk konkrit bagi menggantikan pagar sedia ada serta segala kelengkapan berkaitan dengan merujuk kepada butiran pembekal, Spesifikasi JKR dan senarai lukisan yang berkaitan dengan kelulusan Pegawai Penguasa (PP).                                                  | M    | 30  |            |             |
|               | <b><u>Sambungan ke STP Sediada</u></b>                                                                                                                                                                                                                                                                                                                    |      |     |            |             |
| C             | Membolehkan penyambungan lurang sedia ada dan semua pengorekan yang diperlukan, kelengkapan paip VCP, penyambungan dan aksesori yang diperlukan untuk penyambungan lengkap paip dan biarkan keseluruhan kerja dalam susunan kerja yang sempurna untuk memuaskan kehendak keseluruhan Pegawai Penguasa (PP) dan mengikut kehendak Pihak Berkuasa Tempatan. | LS   |     |            |             |
|               | <b><u>Ujian (Testing)</u></b>                                                                                                                                                                                                                                                                                                                             |      |     |            |             |
| D             | Menjalankan ujian CCTV termasuk ujian berkaitan keseluruhan sistem pembetulan sedia ada dan baharu semasa pembinaan dan setelah siap serta membaiki sebarang kecacatan yang berlaku sehingga sempurna seperti kehendak Pegawai Penguasa (PP) dan Pihak Berkuasa Tempatan.                                                                                 | LS   |     |            |             |
| E             | <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>.....                                                                                                                                                   | LS   |     |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                                                                                           |      |     |            |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                    | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0           | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.                                                                                             |      |     |            |             |
| 6.4           | <b><u>Kawalan Hakisan Dan Kelodak (ESCP)</u></b><br><br><b><u>Longkang Tanah</u></b><br><br>A Membina dan menyiapkan longkang tanah bersaiz 300mm x 300mm dalam termasuk kerja pengorekan parit, membentuk sisi longkang dan pepadatan permukaan pengorekan mengikut kelulusan Pegawai Penguasa (PP) serta semua kerja yang diperlukan merujuk kepada senarai lukisan berkaitan. | M    | 258 |            |             |
|               | <b><u>Perangkap Kelodak</u></b><br><br>B Membina, menyenggara dan membuang selepas siap perangkap kelodak (silt trap) sementara saiz keseluruhan 16000mm (L) x 10000mm (W) x 1500mm (D) termasuk kerja-kerja lain yang berkaitan seperti di dalam senarai lukisan, Spesifikasi, dan arahan Pegawai Penguasa (PP).                                                                | NO   | 1   |            |             |
|               | <b><u>Wash Trough (Rural Area)</u></b><br><br>C Kerja-kerja membina Wash Trough serta kerja-kerja berkaitan seperti di dalam senarai lukisan, Spesifikasi, dan arahan dari Pegawai Penguasa (PP).                                                                                                                                                                                | NO   | 1   |            |             |
|               | <b><u>Water Jet</u></b><br><br>D Membekal dan menjalankan kerja-kerja pembersihan serta kerja-kerja berkaitan seperti di dalam senarai lukisan, Spesifikasi, dan arahan dari Pegawai Penguasa (PP).                                                                                                                                                                              | NO   | 1   |            |             |
|               | <b><u>Silt Fence</u></b><br><br>E Kerja-kerja membina Silt Fence serta kerja-kerja berkaitan seperti di dalam senarai lukisan, Spesifikasi, dan arahan dari Pegawai Penguasa (PP).                                                                                                                                                                                               | M    | 227 |            |             |
|               | F <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>.....                                                                                                                                                                        | LS   |     |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                                                                                                                  |      |     |            |             |

| BIL.                 | PERIHAL KERJA                                                                                                                                                                                                                                                                              | UNIT | QTY  | KADAR (RM) | JUMLAH (RM) |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------|-------------|
| 6.0                  | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.       |      |      |            |             |
| 6.5                  | <b><u>Kerja Jalan dan Dataran Kejat</u></b><br><br><b><u>Kerja-kerja Pengorekan</u></b>                                                                                                                                                                                                    |      |      |            |             |
| A                    | Kerja-kerja mengorek dan mengeluarkan bahan yang digali dari tapak sehingga kedalaman purata 510mm untuk mendapatkan lapisan subged.<br><br><b><u>Sub-Base</u></b>                                                                                                                         | M2   | 1178 |            |             |
| B                    | Membekal, menghampar, dan memadat Sub-Base setebal 150mm menggunakan pasir atau bahan lain yang setara dan diluluskan seperti yang telah ditentukan oleh Pegawai Penguasa (PP) mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan.<br><br><b><u>Road-Base</u></b>                  | M2   | 1178 |            |             |
| C                    | Membekal, menghampar, dan memadat Road-base setebal 250mm menggunakan crusher run atau bahan lain yang setara dan diluluskan seperti yang ditentukan oleh Pegawai Penguasa (PP) mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan.<br><br><b><u>Surfacing</u></b>                 | M2   | 1178 |            |             |
| D                    | Menyediakan 1 lapisan tack coat berserta 50mm tebal 'surface premix' seperti yang ditentukan sebagai 'wearing course' dan dipadatkan seperti yang ditentukan oleh Pegawai Penguasa (PP) mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan.                                        | M2   | 1178 |            |             |
| E                    | Menyediakan 1 lapisan prime coat berserta 60mm tebal 'surface premix' seperti yang ditentukan sebagai 'binder course' dan dipadatkan seperti yang ditentukan oleh Pegawai Penguasa (PP) mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan.<br><br><b><u>Papan Tanda Jalan</u></b> | M2   | 500  |            |             |
| F                    | Membekal dan memasang papan tanda jalan (road sign) dan kerja-kerja lain berkaitan sepertimana yang ditentukan oleh Pegawai Penguasa (PP) mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan.                                                                                      | LS   |      |            |             |
| <b>TO COLLECTION</b> |                                                                                                                                                                                                                                                                                            |      |      |            |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0           | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |            |             |
| 6.5           | <b><u>Kerja Jalan dan Dataran Kejat (samb.)</u></b><br><br><b><u>Kerb</u></b><br><br>A Membekal dan memasang bebendul konkrit (road kerb) dengan concrete pipe outlet termasuk kerja mengecat dan kerja-kerja lain berkaitan sepertimana ditentukan oleh Pegawai Penguasa (PP) mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan.<br><br><b><u>Garisan Jalan (Road Marking)</u></b><br><br>B Menyiapkan <i>road marking</i> untuk garisan tempat letak kenderaan, membuat garisan jalan termasuk centre line dan edge line, dan lain-lain kerja berkaitan mengikut Pelan Tapak, Spesifikasi Piawai, dan senarai lukisan berkaitan.<br><br><b><u>Kerja Pembaikan Jalan</u></b><br><br>C Kerja-kerja membaik pulih jalan sedia ada yang digunakan untuk laluan pembinaan sepertimana ditentukan oleh Pegawai Penguasa (PP) dan lain-lain kerja berkaitan mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan.<br><br><b><u>Interlocking Paver</u></b><br><br>D Kerja-kerja membekal dan memasang heavy duty interlocking paver serta kerja-kerja berkaitan sepertimana ditentukan oleh Pegawai Penguasa (PP) dan lain-lain kerja berkaitan mengikut Spesifikasi Piawai, dan senarai lukisan berkaitan.<br><br>E <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>..... | M    | 50  |            |             |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LS   |     |            |             |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LS   |     |            |             |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LS   |     |            |             |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LS   |     |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |            |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                               | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0           | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.                                                        |      |     |            |             |
| 6.6           | <b><u>Sistem Saliran</u></b><br><br><b><u>Longkang Separuh Bulat Konkrit Pratuang</u></b>                                                                                                                                                                                                                                                   |      |     |            |             |
| A             | Membekal, membina, dan menyiapkan 225mm longkang separuh bulat konkrit pra tuang termasuk pengorekan, <i>bedding</i> dan kerja-kerja lain yang berkaitan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                                                                                                     | M    | 87  |            |             |
| B             | Membekal, membina, dan menyiapkan 300mm longkang separuh bulat konkrit pra tuang berserta kerja-kerja bata, penutup konkrit pra tuang termasuk pengorekan, <i>bedding</i> dan kerja-kerja lain yang berkaitan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                                                | M    | 225 |            |             |
| C             | Kerja-kerja meroboh longkang sedia ada serta membekal, membina, dan menyiapkan 300mm longkang separuh bulat konkrit pra tuang berserta kerja-kerja bata, pemasangan scupper drain termasuk pengorekan, bedding dan kerja-kerja lain yang berkaitan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.<br><b><u>PC Drain</u></b> | M    | 45  |            |             |
| D             | Membekal, membina, dan menyiapkan 600mm ( <i>PC Block Drain</i> ) termasuk pengorekan, <i>bedding</i> dan kerja-kerja lain yang diperlukan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.<br><b><u>Sump</u></b>                                                                                                             | M    | 6   |            |             |
| E             | Membekal dan membina 600mm x 600mm takungan bata (sump) lengkap dengan MS grating termasuk pengorekan, penutup, dan kerja-kerja lain yang diperlukan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                                                                                                         | NO   | 10  |            |             |
| F             | Kerja-kerja meroboh sump sedia ada serta membekal dan membina 1200mm x 900mm takungan bata (sump) lengkap dengan MS grating termasuk pengorekan, penutup, dan kerja-kerja lain yang diperlukan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                                                               | NO   | 1   |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                                                                             |      |     |            |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                        | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0           | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi. |      |     |            |             |
| 6.6           | <b><u>Sistem Saliran (samb.)</u></b><br><br><b><u>Rubble Pitching</u></b><br><br>A Kerja-kerja membekal dan memasang Rubble Pitching serta kerja-kerja lain yang diperlukan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                           | M    | 50  |            |             |
|               | <b><u>Paip Culvert</u></b><br><br>B Membekal dan memasang 150mm diameter paip culvert termasuk pengorekan, dan kerja-kerja lain yang berkaitan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                                                        | M    | 17  |            |             |
|               | C Membekal dan memasang 450mm diameter paip culvert termasuk pengorekan, dan kerja-kerja lain yang berkaitan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                                                                                          | M    | 5   |            |             |
|               | <b><u>Penyambungan (Connection)</u></b><br><br>D Kerja-kerja penyambungan longkang baru dengan longkang sedia ada termasuk semua acuan yang diperlukan, pengorekan dan pembuangan bahan penggalian yang berlebihan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.    | ITEM |     |            |             |
|               | E <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>.....                                                                            | LS   |     |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                      |      |     |            |             |

| BIL.                 | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                   | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0                  | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.                                                            |      |     |            |             |
| 6.7                  | <b><u>On Site Detention Pond (OSD) dan Pagar Chain Link</u></b>                                                                                                                                                                                                                                                                                 |      |     |            |             |
| A                    | Membina 'On Site Detention Pond' berserta pagar Chain Link dan kerja-kerja lain yang berkaitan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                                                                                                                                                                   | LS   |     |            |             |
| 6.8                  | <b><u>Laluan Berbumbung</u></b>                                                                                                                                                                                                                                                                                                                 |      |     |            |             |
| B                    | Kerja - kerja membina dan menyiapkan laluan berbumbung pejalan kaki termasuk kerangka, struktur bumbung dan kemas bumbung serta kerja-kerja lain yang berkaitan mengikut kelulusan Arkitek dan Jurutera serta arahan daripada Pegawai Penguasa (PP) berdasarkan senarai lukisan dan spesifikasi.                                                | LS   |     |            |             |
| 6.9                  | <b><u>Pagar Chain Link Untuk Blok Taska Sediada</u></b>                                                                                                                                                                                                                                                                                         |      |     |            |             |
| C                    | Meroboh pagar chain link sediada dan membina semula pagar Chain Link dan kerja-kerja lain yang berkaitan seperti yang dinyatakan dalam senarai lukisan dan spesifikasi.                                                                                                                                                                         | LS   |     |            |             |
| 6.10                 | <b><u>Pagar dan Pintu Pagar</u></b>                                                                                                                                                                                                                                                                                                             |      |     |            |             |
| D                    | Kerja-kerja meroboh pagar sedia ada serta membekal dan memasang pagar baru dari jenis "safety fencing" beserta aksesori berkaitan bagi menggantikan pagar sedia ada serta segala kelengkapan berkaitan dengan merujuk kepada butiran pembekal Spesifikasi JKR dan senarai lukisan yang berkaitan dengan kelulusan Pegawai Penguasa (PP).        | LS   |     |            |             |
| E                    | Kerja-kerja meroboh pintu pagar, membina serta membekal dan memasang pintu pagar baru dari jenis "mild steel" beserta aksesori berkaitan bagi menggantikan pagar sedia ada serta segala kelengkapan berkaitan dengan merujuk kepada butiran pembekal Spesifikasi JKR dan senarai lukisan yang berkaitan dengan kelulusan Pegawai Penguasa (PP). | LS   |     |            |             |
| F                    | Kerja-kerja membina Tiang Bollard beserta aksesori berkaitan serta segala kelengkapan berkaitan dengan merujuk kepada butiran pembekal Spesifikasi JKR dan senarai lukisan yang berkaitan dengan kelulusan Pegawai Penguasa (PP).                                                                                                               | LS   |     |            |             |
| G                    | <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>.....                                                                                                                                         | LS   |     |            |             |
| <b>TO COLLECTION</b> |                                                                                                                                                                                                                                                                                                                                                 |      |     |            |             |

| BIL.          | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0           | <b><u>KERJA-KERJA LUAR (ALL PROVISIONAL) (Samb.)</u></b><br><br>Nota : Keseluruhan kerja hendaklah dijalankan mengikut kelulusan oleh Pegawai Penguasa (PP) dan bersama-sama dengan lukisan-lukisan yang berkaitan seperti yang dinyatakan di dalam Senarai Lukisan dan Spesifikasi.                                                                                                                                                                              |      |     |            |             |
| 6.11          | <b><u>Menanam Rumput</u></b><br>A Membekal dan menanam rumput hamparan bertompok (spot turfing) dan lain-lain kerja berkaitan mengikut Pelan Tapak, Spesifikasi Piawai dan lukisan-lukisan berkaitan. Kontraktor hendaklah menjaga dan memelihara rumput-rumput yang ditanam dari kerosakan sehingga akhir Tempoh Tanggungan Kecacatan (Defect Liability Period). Segala rumput yang rosak atau mati dalam tempoh berkenaan hendaklah diganti dan ditanam semula. | M2   | 900 |            |             |
|               | B <u>Mana-mana item lain yang tidak disertakan di atas tetapi diterangkan/ditunjukkan dalam spesifikasi atau lukisan yang difikirkan perlu untuk menyiapkan kerja yang sewajarnya:-</u><br>.....<br>.....                                                                                                                                                                                                                                                         | LS   |     |            |             |
| TO COLLECTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |     |            |             |

| BIL.                               | PERIHAL KERJA                                                                                                                                                                                                                                                                               | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 6.0                                | <u>KERJA-KERJA LUAR (samb.)</u><br><br><u>COLLECTION:-</u><br><br>Page P6/1<br><br>Page P6/2<br><br>Page P6/3<br><br>Page P6/4<br><br>Page P6/5<br><br>Page P6/6<br><br>Page P6/7<br><br>Page P6/8<br><br>Page P6/9<br><br>Page P6/10<br><br>Page P6/11<br><br>Page P6/12<br><br>Page P6/13 |      |     |            |             |
| JUMLAH DI BAWA KE RINGKASAN TENDER |                                                                                                                                                                                                                                                                                             |      |     |            |             |

| BIL.                                      | PERIHAL KERJA                                                                                                                                                                                                                                                                                                                               | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 7.0                                       | <b><u>WANG PERUNTUKAN SEMENTARA</u></b><br><br>Nota : Wang Peruntukan Sementara berikut yang disediakan hendaklah dibelanjakan seperti yang diarahkan oleh Pegawai Penguasa (PP) atau ditolak keseluruhan atau sebahagiannya jika tidak dibelanjakan.                                                                                       |      |     |            |             |
| 7.1                                       | Sediakan Wang Peruntukan Sementara sebanyak RM 75,000.00 (Ringgit Malaysia : Tujuh Puluh Lima Ribu Sahaja) untuk <b>Kerja Membekal Dan Memasang Papan Tanda (Signages)</b> dibelanjakan atau ditolak keseluruhannya seperti yang diarahkan oleh Pegawai Penguasa (PP).<br>a) Keuntungan..... %<br><br>b) Layanan (Harga Pukal)              |      |     |            | 75,000.00   |
| 7.2                                       | Sediakan Wang Peruntukan Sementara sebanyak RM 100,000.00 (Ringgit Malaysia : Satu Ratus Ribu Sahaja) untuk <b>Kerja Membekal Dan Memasang Perabot Bina Dalam (Built-In Furnitures)</b> dibelanjakan atau ditolak keseluruhannya seperti yang diarahkan oleh Pegawai Penguasa (PP).<br>a) Keuntungan..... %<br><br>b) Layanan (Harga Pukal) |      |     |            | 100,000.00  |
| 7.3                                       | Sediakan Wang Peruntukan Sementara sebanyak RM 15,000.00 (Ringgit Malaysia : Lima Belas Ribu Sahaja) untuk <b>Aset Tagging</b> dibelanjakan atau ditolak keseluruhannya seperti yang diarahkan oleh Pegawai Penguasa (PP).<br>a) Keuntungan..... %<br><br>b) Layanan (Harga Pukal)                                                          |      |     |            | 15,000.00   |
| 7.4                                       | Sediakan Wang Peruntukan Sementara sebanyak RM 30,000.00 (Ringgit Malaysia : Tiga Puluh Ribu Sahaja) untuk <b>Kerja Builders Works In Connection</b> dibelanjakan atau ditolak keseluruhannya seperti yang diarahkan oleh Pegawai Penguasa (PP).<br>a) Keuntungan..... %<br><br>b) Layanan (Harga Pukal)                                    |      |     |            | 30,000.00   |
| 7.5                                       | Sediakan Wang Peruntukan Sementara sebanyak RM 50,000.00 (Ringgit Malaysia : Lima Puluh Ribu Sahaja) untuk <b>Kerja Landskap</b> dibelanjakan atau ditolak keseluruhannya seperti yang diarahkan oleh Pegawai Penguasa (PP).<br>a) Keuntungan..... %<br><br>b) Layanan (Harga Pukal)                                                        |      |     |            | 50,000.00   |
| <b>JUMLAH DI BAWA KE RINGKASAN TENDER</b> |                                                                                                                                                                                                                                                                                                                                             |      |     |            |             |

| BIL.                                      | PERIHAL KERJA                                                                                                                                                                                                                                                                          | UNIT | QTY | KADAR (RM) | JUMLAH (RM) |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------|-------------|
| 8.0                                       | <b>WANG KOS PRIMA</b><br><i>(Wang Kos Prima hendaklah dibelanjakan seperti yang diarahkan oleh Pegawai Penguasa (PP) atau ditolak secara keseluruhan atau sebahagian jika tidak diperlukan).</i>                                                                                       |      |     |            |             |
| 8.1                                       | Peruntukan Wang Kos Prima sebanyak Ringgit Malaysia :- Dua Ratus Lima Puluh Ribu Sahaja (RM 250,000.00) untuk <b>Kerja Pemasangan Elektrik</b> yang akan dijalankan oleh Sub-Kontraktor Dinamakan yang dilantik<br><br>a) Keuntungan .... %<br><br>b) Layanan (Harga Pukal)            |      |     |            | 250,000.00  |
| 8.2                                       | Peruntukan Wang Kos Prima sebanyak Ringgit Malaysia :- Enam Puluh Lima Ribu Sahaja (RM 65,000.00) untuk <b>Kerja Sistem Penyaman Dan Pengalihan Udara</b> yang akan dijalankan oleh Sub-Kontraktor Dinamakan yang dilantik<br><br>a) Keuntungan .... %<br><br>b) Layanan (Harga Pukal) |      |     |            | 65,000.00   |
| 8.3                                       | Peruntukan Wang Kos Prima sebanyak Ringgit Malaysia :- Tujuh Puluh Ribu Sahaja (RM 70,000.00) untuk <b>Kerja Sistem Pencegah Kebakaran</b> yang akan dijalankan oleh Sub-Kontraktor Dinamakan yang dilantik<br><br>a) Keuntungan .....%<br><br>b) Layanan (Harga Pukal)                |      |     |            | 70,000.00   |
| 8.4                                       | Peruntukan Wang Kos Prima sebanyak Ringgit Malaysia :- Lima Ribu Sahaja (RM 5,000.00) untuk <b>Kitchen Equipment</b> yang akan dijalankan oleh Sub-Kontraktor Dinamakan yang dilantik<br><br>a) Keuntungan.....%<br><br>b) Layanan (Harga Pukal)                                       |      |     |            | 5,000.00    |
| <b>JUMLAH DI BAWA KE RINGKASAN TENDER</b> |                                                                                                                                                                                                                                                                                        |      |     |            |             |