

| COCHIN PORT AUTHORITY   |  |                      |        |                                    |   |                        |   |
|---|--|----------------------|--------|------------------------------------|---|------------------------|---|
| <a href="http://www.tenderwizard.com/COPT">www.tenderwizard.com/COPT</a>  |  |                      |        |                                    |   |                        |   |
| Tender No: T9/T-2011/2024-C Date: 07-06-2024 - PRICE BID  |  |                      |        |                                    |   |                        |   |
| Name of Wok : "CONDUCTING GEOTECHNICAL INVESTIGATIONS FOR THE PROPOSED PASSENGER JETTIES AND ASSOCIATED LANDSIDE FACILITIES AT ANDROTH, KADMATH AND KALPENI ISLANDS IN LAKSHADWEEP" |  |                      |        |                                    |   |                        |   |
| SCHEDULE - II - SCHEDULE OF QUANTITIES TO BE DONE ON CONTRACT   |  |                      |        |                                    |   |                        |   |
| Name and address of the Bidder  |  |                      |        |                                    |   |                        |   |
| Sl. No.   | Sub- heads and items of Work   | Approximate Quantity | Unit   | Departmental rates (Rs) in figures | Departmental rates (Rs) in words                      | Amount (Rs) in figures | Amount (Rs) in words  |
| <b>PART A - ANDROTH ISLAND</b>  |  |                      |        |                                    |   |                        |   |
| <b>Field Investigations – Taking bore hole data</b>   |  |                      |        |                                    |   |                        |   |
| 1   | Moving jack up platform/ pontoons/ barges with equipments and accessories from one location to another, fixing and setting up the equipment at the location including mobilisation, cost of materials, consumables, labour etc., complete in Marine condition  | 18                   | nos.   | 33750.00                           | Rupees Thirty Three Thousand Seven Hundred Fifty Only | 607500.00              | Rupees Six Lakh Seven Thousand Five Hundred Only                |
| 2   | Moving pontoons/ barges with equipments and accessories from one location to another, fixing and setting up the equipment at the location including mobilisation, cost of materials, consumables, labour etc., complete in Land  | 4                    | nos.   | 10250.00                           | Rupees Ten Thousand Two Hundred Fifty Only            | 41000.00               | Rupees Forty One Thousand Only                                  |
| 3   | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from bed/ ground level to (-)15m depth in Marine condition. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost. | 195                  | metres | 7250.00                            | Rupees Seven Thousand Two Hundred Fifty Only          | 1413750.00             | Rupees Fourteen Lakh Thirteen Thousand Seven Hundred Fifty Only |

| Sl. No. | Sub- heads and items of Work  | Approximate Quantity | Unit   | Departmental rates (Rs) in figures | Departmental rates (Rs) in words                    | Amount (Rs) in figures | Amount (Rs) in words  |
|---------|---|----------------------|--------|------------------------------------|---|------------------------|---|
| 4       | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from bed/ ground level to (-)15m depth in Land. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost.  | 68                   | metres | 2833.00                            | Rupees Two Thousand Eight Hundred Thirty Three Only | 192644.00              | Rupees One Lakh Ninety Two Thousand Six Hundred Forty Four Only |
| 5       | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from (-)15m to (-)25m depth in Marine condition. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost. | 30                   | metres | 9250.00                            | Rupees Nine Thousand Two Hundred Fifty Only         | 277500.00              | Rupees Two Lakh Seventy Seven Thousand Five Hundred Only        |
| 6       | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from (-)15m to (-)25m depth in Land. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost.             | 40                   | metres | 4667.00                            | Rupees Four Thousand Six Hundred Sixty Seven Only   | 186680.00              | Rupees One Lakh Eighty Six Thousand Six Hundred Eighty Only     |
| 7       | Collect and preserve disturbed samples from marine bore holes as per specifications, hand over them to the department / at place as pointed out by the Engineer-in-Charge in well sealed condition or transport to the approved laboratory.   | 57                   | nos.   | 500.00                             | Rupees Five Hundred Only                            | 28500.00               | Rupees Twenty Eight Thousand Five Hundred Only                  |

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|---------|---|----------------------|------|------------------------------------|-------------------------------------|------------------------|---|
| 8       | Collect and preserve disturbed samples from land bore holes as per specifications, hand over them to the department / at place as pointed out by the Engineer-in-Charge in well sealed condition or transport to the approved laboratory.   | 16                   | nos. | 400.00                             | Rupees Four Hundred Only            | 6400.00                | Rupees Six Thousand Four Hundred Only               |
| 9       | Recover and preserve undisturbed samples from marine bore holes with appropriate type of piston sampler, preserve and transport the samples with tubes in a well sealed and packed condition as specified and as per instructions of the Engineer-in-charge to the approved laboratory. | 99                   | nos. | 750.00                             | Rupees Seven Hundred Fifty Only     | 74250.00               | Rupees Seventy Four Thousand Two Hundred Fifty Only |
| 10      | Recover and preserve undisturbed samples from land bore holes with appropriate type of piston sampler, preserve and transport the samples with tubes in a well sealed and packed condition as specified and as per instructions of the Engineer-in-charge to the approved laboratory.   | 32                   | nos. | 600.00                             | Rupees Six Hundred Only             | 19200.00               | Rupees Nineteen Thousand Two Hundred Only           |
| 11      | Carrying out the Standard Penetration tests in marine bore holes as specified and as per the instructions of the Engineer-in-Charge including supply of all tools, plants, labour etc. complete and submit the data with a report to the department.                                    | 99                   | nos. | 650.00                             | Rupees Six Hundred Fifty Only       | 64350.00               | Rupees Sixty Four Thousand Three Hundred Fifty Only |
| 12      | Carrying out the Standard Penetration tests in land bore holes as specified and as per the instructions of the Engineer-in-Charge including supply of all tools, plants, labour etc. complete and submit the data with a report to the department.                                      | 32                   | nos. | 317.00                             | Rupees Three Hundred Seventeen Only | 10144.00               | Rupees Ten Thousand One Hundred Forty Four Only     |
| 13      | Carrying out in-situ vane shear tests in marine boreholes as per specifications and directions of the Engineer-in-charge including supply of all tools, plants, labour etc complete and submit the data with a report to the department.  | 57                   | nos. | 5000.00                            | Rupees Five Thousand Only           | 285000.00              | Rupees Two Lakh Eighty Five Thousand Only           |
| 14      | Carrying out in-situ vane shear tests in land boreholes as per specifications and directions of the Engineer-in-charge including supply of all tools, plants, labour etc complete and submit the data with a report to the department.  | 16                   | nos. | 3000.00                            | Rupees Three Thousand Only          | 48000.00               | Rupees Forty Eight Thousand Only                    |

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|---------|---|----------------------|------|------------------------------------|--|------------------------|--|
| 15      | Collect water samples from marine / land bore holes as per specifications and directions of the Engineer-in-Charge and transport the same to the approved laboratory. | 5                    | nos. | 1500.00                            | Rupees One Thousand Five Hundred Only                    | 7500.00                | Rupees Seven Thousand Five Hundred Only                  |
|         | <b>Laboratory Tests</b>   |                      |      |                                    |  |                        |  |
| 16      | Natural moisture content in the laboratory on UD samples  | 131                  | nos. | 500.00                             | Rupees Five Hundred Only                                 | 65500.00               | Rupees Sixty Five Thousand Five Hundred Only             |
| 17      | Wet and dry density at the field laboratory on UD samples   | 131                  | nos. | 500.00                             | Rupees Five Hundred Only                                 | 65500.00               | Rupees Sixty Five Thousand Five Hundred Only             |
| 18      | Specific Gravity tests on samples from each stratum   | 131                  | nos. | 500.00                             | Rupees Five Hundred Only                                 | 65500.00               | Rupees Sixty Five Thousand Five Hundred Only             |
| 19      | Particle size analysis by sieve/hydrometer analysis on samples from each stratum  | 131                  | nos. | 500.00                             | Rupees Five Hundred Only                                 | 65500.00               | Rupees Sixty Five Thousand Five Hundred Only             |
| 20      | Unconfined compression tests on selected UDS in the laboratory on UD samples  | 131                  | nos. | 650.00                             | Rupees Six Hundred Fifty Only                            | 85150.00               | Rupees Eighty Five Thousand One Hundred Fifty Only       |
| 21      | Direct shear tests on sandy samples   | 44                   | nos. | 683.00                             | Rupees Six Hundred Eighty Three Only                     | 30052.00               | Rupees Thirty Thousand Five Fifty Two Only               |
| 22      | Chemical Analysis for Sulphate content in water   | 10                   | nos. | 550.00                             | Rupees Five Hundred Fifty Only                           | 5500.00                | Rupees Five Thousand Five Hundred Only                   |
| 23      | Chemical Analysis for Sulphate content in soil  | 10                   | nos. | 550.00                             | Rupees Five Hundred Fifty Only                           | 5500.00                | Rupees Five Thousand Five Hundred Only                   |
| 24      | Chemical Analysis for Chloride content in water   | 10                   | nos. | 550.00                             | Rupees Five Hundred Fifty Only                           | 5500.00                | Rupees Five Thousand Five Hundred Only                   |
| 25      | Chemical Analysis for Organic content in soil   | 10                   | nos. | 550.00                             | Rupees Five Hundred Fifty Only                           | 5500.00                | Rupees Five Thousand Five Hundred Only                   |
| 26      | Chemical Analysis for Calcium Carbonate in soil   | 10                   | nos. | 550.00                             | Rupees Five Hundred Fifty Only                           | 5500.00                | Rupees Five Thousand Five Hundred Only                   |
| 27      | Chemical Analysis for Total salinity in water sample  | 10                   | nos. | 717.00                             | Rupees Seven Hundred Seventeen Only                      | 7170.00                | Rupees Seven Thousand One Hundred Seventy Only           |
| 28      | Chemical Analysis for pH value on soil / water samples  | 10                   | nos. | 550.00                             | Rupees Five Hundred Fifty Only                           | 5500.00                | Rupees Five Thousand Five Hundred Only                   |
| 29      | Conducting Plate Load Test as per standard IS codes, including cost of materials, consumables, labour etc., complete on land  | 4                    | nos. | 75000.00                           | Rupees Seventy Five Thousand Only                        | 300000.00              | Rupees Three Lakh Only                                   |
| 30      | Compilation and analysis of all field data and laboratory test data and submission of report giving recommendations (10 copies)                                       | 1                    | nos. | 177500.00                          | Rupees One Lakh Seventy Seven Thousand Five Hundred Only | 177500.00              | Rupees One Lakh Seventy Seven Thousand Five Hundred Only |

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|---------|--|----------------------|--------|------------------------------------|---|------------------------|---|
|         | <b>TOTAL FOR PART A</b>  |                      |        |                                    |   | <b>4157290.00</b>      | <b>Rupees Forty One Lakh Fifty Seven Thousand Two Hundred Ninety Only</b> |
|         | <b>PART B - KADMATH ISLAND</b>   |                      |        |                                    |   |                        |   |
|         | <b>Field Investigations – Taking bore hole data</b>  |                      |        |                                    |   |                        |   |
| 31      | Moving jack up platform/ pontoons/ barges with equipments and accessories from one location to another, fixing and setting up the equipment at the location including mobilisation, cost of materials, consumables, labour etc., complete in Marine condition  | 11                   | nos.   | 80000.00                           | Rupees Eighty Thousand Only                         | 880000.00              | Rupees Eight Lakh Eighty Thousand Only                                    |
| 32      | Moving pontoons/ barges with equipments and accessories from one location to another, fixing and setting up the equipment at the location including mobilisation, cost of materials, consumables, labour etc., complete in Land  | 2                    | nos.   | 10250.00                           | Rupees Ten Thousand Two Hundred Fifty Only          | 20500.00               | Rupees Twenty Thousand Five Hundred Only                                  |
| 33      | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from bed/ ground level to (-)15m depth in Marine condition. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost. | 84                   | metres | 7250.00                            | Rupees Seven Thousand Two Hundred Fifty Only        | 609000.00              | Rupees Six Lakh Nine Thousand Only  |
| 34      | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from bed/ ground level to (-)15m depth in Land. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost.             | 34                   | metres | 2833.00                            | Rupees Two Thousand Eight Hundred Thirty Three Only | 96322.00               | Rupees Ninety Six Thousand Three Hundred Twenty Two Only                  |

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|---------|---|----------------------|--------|------------------------------------|---|------------------------|--|
| 35      | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from (-)15m to (-)25m depth in Marine condition. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost. | 45                   | metres | 9250.00                            | Rupees Nine Thousand Two Hundred Fifty Only       | 416250.00              | Rupees Four Lakh Sixteen Thousand Two Hundred Fifty Only |
| 36      | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from (-)15m to (-)25m depth in Land. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost.             | 20                   | metres | 4667.00                            | Rupees Four Thousand Six Hundred Sixty Seven Only | 93340.00               | Rupees Ninety Three Thousand Three Hundred Forty Only    |
| 37      | Collect and preserve disturbed samples from marine bore holes as per specifications, hand over them to the department / at place as pointed out by the Engineer-in-Charge in well sealed condition or transport to the approved laboratory.   | 34                   | nos.   | 500.00                             | Rupees Five Hundred Only                          | 17000.00               | Rupees Seventeen Thousand Only                           |
| 38      | Collect and preserve disturbed samples from land bore holes as per specifications, hand over them to the department / at place as pointed out by the Engineer-in-Charge in well sealed condition or transport to the approved laboratory.   | 8                    | nos.   | 400.00                             | Rupees Four Hundred Only                          | 3200.00                | Rupees Three Thousand Two Hundred Only                   |
| 39      | Recover and preserve undisturbed samples from marine bore holes with appropriate type of piston sampler, preserve and transport the samples with tubes in a well sealed and packed condition as specified and as per instructions of the Engineer-in-charge to the approved laboratory.   | 68                   | nos.   | 767.00                             | Rupees Seven Hundred Sixty Seven Only             | 52156.00               | Rupees Fifty Two Thousand One Hundred Fifty Six Only     |

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|---------|---|----------------------|------|------------------------------------|---------------------------------------|------------------------|---|
| 40      | Recover and preserve undisturbed samples from land bore holes with appropriate type of piston sampler, preserve and transport the samples with tubes in a well sealed and packed condition as specified and as per instructions of the Engineer-in-charge to the approved laboratory. | 16                   | nos. | 600.00                             | Rupees Six Hundred Only               | 9600.00                | Rupees Nine Thousand Six Hundred Only       |
| 41      | Carrying out the Standard Penetration tests in marine bore holes as specified and as per the instructions of the Engineer-in-Charge including supply of all tools, plants, labour etc. complete and submit the data with a report to the department.                                  | 68                   | nos. | 650.00                             | Rupees Six Hundred Fifty Only         | 44200.00               | Rupees Forty Four Thousand Two Hundred Only |
| 42      | Carrying out the Standard Penetration tests in land bore holes as specified and as per the instructions of the Engineer-in-Charge including supply of all tools, plants, labour etc. complete and submit the data with a report to the department.                                    | 16                   | nos. | 317.00                             | Rupees Three Hundred Seventeen Only   | 5072.00                | Rupees Five Thousand Seventy Two Only       |
| 43      | Carrying out in-situ vane shear tests in marine boreholes as per specifications and directions of the Engineer-in-charge including supply of all tools, plants, labour etc complete and submit the data with a report to the department.  | 34                   | nos. | 5000.00                            | Rupees Five Thousand Only             | 170000.00              | Rupees One Lakh Seventy Thousand Only       |
| 44      | Carrying out in-situ vane shear tests in land boreholes as per specifications and directions of the Engineer-in-charge including supply of all tools, plants, labour etc complete and submit the data with a report to the department.  | 8                    | nos. | 3000.00                            | Rupees Three Thousand Only            | 24000.00               | Rupees Twenty Four Thousand Only            |
| 45      | Collect water samples from marine / land bore holes as per specifications and directions of the Engineer-in-Charge and transport the same to the approved laboratory.   | 5                    | nos. | 1500.00                            | Rupees One Thousand Five Hundred Only | 7500.00                | Rupees Seven Thousand Five Hundred Only     |
|         | <b>Laboratory Tests</b>   |                      |      |                                    |                                       |                        |   |
| 46      | Natural moisture content in the laboratory on UD samples  | 84                   | nos. | 500.00                             | Rupees Five Hundred Only              | 42000.00               | Rupees Forty Two Thousand Only              |
| 47      | Wet and dry density at the field laboratory on UD samples   | 84                   | nos. | 500.00                             | Rupees Five Hundred Only              | 42000.00               | Rupees Forty Two Thousand Only              |
| 48      | Specific Gravity tests on samples from each stratum   | 84                   | nos. | 500.00                             | Rupees Five Hundred Only              | 42000.00               | Rupees Forty Two Thousand Only              |

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|---------|---|----------------------|------|------------------------------------|--------------------------------------|------------------------|---|
| 49      | Particle size analysis by sieve/hydrometer analysis on samples from each stratum  | 84                   | nos. | 500.00                             | Rupees Five Hundred Only             | 42000.00               | Rupees Forty Two Thousand Only  |
| 50      | Unconfined compression tests on selected UDS in the laboratory on UD samples  | 84                   | nos. | 650.00                             | Rupees Six Hundred Fifty Only        | 54600.00               | Rupees Fifty Four Thousand Six Hundred Only                                   |
| 51      | Direct shear tests on sandy samples   | 26                   | nos. | 683.00                             | Rupees Six Hundred Eighty Three Only | 17758.00               | Rupees Seventeen Thousand Seven Hundred Fifty Eight                           |
| 52      | Chemical Analysis for Sulphate content in water   | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                |
| 53      | Chemical Analysis for Sulphate content in soil  | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                |
| 54      | Chemical Analysis for Chloride content in water   | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                |
| 55      | Chemical Analysis for Organic content in soil   | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                |
| 56      | Chemical Analysis for Calcium Carbonate in soil   | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                |
| 57      | Chemical Analysis for Total salinity in water sample  | 7                    | nos. | 717.00                             | Rupees Seven Hundred Seventeen Only  | 5019.00                | Rupees Five Thousand Nineteen Only  |
| 58      | Chemical Analysis for pH value on soil / water samples  | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                |
| 59      | Conducting Plate Load Test as per standard IS codes, including cost of materials, consumables, labour etc., complete on land  | 2                    | nos. | 75000.00                           | Rupees Seventy Five Thousand Only    | 150000.00              | Rupees One Lakh Fifty Thousand Only   |
| 60      | Compilation and analysis of all field data and laboratory test data and submission of report giving recommendations (10 copies)   | 1                    | no.  | 70000.00                           | Rupees Seventy Thousand Only         | 70000.00               | Rupees Seventy Thousand Only  |
|         | <b>TOTAL FOR PART B</b>   |                      |      |                                    |                                      | <b>2936617.00</b>      | <b>Rupees Twenty Nine Lakh Thirty Six Thousand Six Hundred Seventeen Only</b> |
|         | <b>PART C - KALPENI ISLAND</b>  |                      |      |                                    |                                      |                        |   |
|         | <b>Field Investigations – Taking bore hole data</b>   |                      |      |                                    |                                      |                        |   |
| 61      | Moving jack up platform/ pontoons/ barges with equipments and accessories from one location to another, fixing and setting up the equipment at the location including mobilisation, cost of materials, consumables, labour etc., complete in Marine condition | 17                   | nos. | 80000.00                           | Rupees Eighty Thousand Only          | 1360000.00             | Rupees Thirteen Lakh Sixty Thousand Only                                      |



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|---------|--|----------------------|--------|------------------------------------|---|------------------------|---|
| 62      | Moving pontoons/ barges with equipments and accessories from one location to another, fixing and setting up the equipment at the location including mobilisation, cost of materials, consumables, labour etc., complete in Land  | 2                    | nos.   | 10250.00                           | Rupees Ten Thousand Two Hundred Fifty Only          | 20500.00               | Rupees Twenty Thousand Five Hundred Only                      |
| 63      | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from bed/ ground level to (-)15m depth in Marine condition. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost. | 119                  | metres | 7250.00                            | Rupees Seven Thousand Two Hundred Fifty Only        | 862750.00              | Rupees Eight Lakh Sixty Two Thousand Seven Hundred Fifty Only |
| 64      | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from bed/ ground level to (-)15m depth in Land. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost.             | 34                   | metres | 2833.00                            | Rupees Two Thousand Eight Hundred Thirty Three Only | 96322.00               | Rupees Ninety Six Thousand Three Hundred Twenty Two Only      |
| 65      | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from (-)15m to (-)25m depth in Marine condition. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost.            | 45                   | metres | 9250.00                            | Rupees Nine Thousand Two Hundred Fifty Only         | 416250.00              | Rupees Four Lakh Sixteen Thousand Two Hundred Fifty Only      |

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|---------|---|----------------------|--------|------------------------------------|---|------------------------|---|
| 66      | Boring with bailer/rotary drilling equipment using casing for initial depth and then bentonite slurry to retain sides through sand, silt, clay and corals, excluding rock, pebble, gravel or boulders which cannot be bored through by using the above equipment including supply of all materials, casing pipes, labour etc., all complete from (-)15m to (-)25m depth in Land. If gravels, pebbles, boulders and rocks are encountered, suitable method of advancing the bore hole shall be used by the Contractor without any additional cost. | 20                   | metres | 4667.00                            | Rupees Four Thousand Six Hundred Sixty Seven Only | 93340.00               | Rupees Ninety Three Thousand Three Hundred Forty Only |
| 67      | Collect and preserve disturbed samples from marine bore holes as per specifications, hand over them to the department / at place as pointed out by the Engineer-in-Charge in well sealed condition or transport to the approved laboratory.   | 46                   | nos.   | 500.00                             | Rupees Five Hundred Only                          | 23000.00               | Rupees Twenty Three Thousand Only                     |
| 68      | Collect and preserve disturbed samples from land bore holes as per specifications, hand over them to the department / at place as pointed out by the Engineer-in-Charge in well sealed condition or transport to the approved laboratory.   | 8                    | nos.   | 400.00                             | Rupees Four Hundred Only                          | 3200.00                | Rupees Three Thousand Two Hundred Only                |
| 69      | Recover and preserve undisturbed samples from marine bore holes with appropriate type of piston sampler, preserve and transport the samples with tubes in a well sealed and packed condition as specified and as per instructions of the Engineer-in-charge to the approved laboratory.   | 92                   | nos.   | 767.00                             | Rupees Seven Hundred Sixty Seven Only             | 70564.00               | Rupees Seventy Thousand Five Hundred Sixty Four Only  |
| 70      | Recover and preserve undisturbed samples from land bore holes with appropriate type of piston sampler, preserve and transport the samples with tubes in a well sealed and packed condition as specified and as per instructions of the Engineer-in-charge to the approved laboratory.   | 16                   | nos.   | 600.00                             | Rupees Six Hundred Only                           | 9600.00                | Rupees Nine Thousand Six Hundred Only                 |
| 71      | Carrying out the Standard Penetration tests in marine bore holes as specified and as per the instructions of the Engineer-in-Charge including supply of all tools, plants, labour etc. complete and submit the data with a report to the department.  | 92                   | nos.   | 650.00                             | Rupees Six Hundred Fifty Only                     | 59800.00               | Rupees Fifty Nine Thousand Eight Hundred Only         |

| Sl. No. | Sub- heads and items of Work   | Approximate Quantity | Unit | Departmental rates (Rs) in figures | Departmental rates (Rs) in words      | Amount (Rs) in figures | Amount (Rs) in words                                     |
|---------|--|----------------------|------|------------------------------------|---------------------------------------|------------------------|--|
| 72      | Carrying out the Standard Penetration tests in land bore holes as specified and as per the instructions of the Engineer-in-Charge including supply of all tools, plants, labour etc. complete and submit the data with a report to the department. | 16                   | nos. | 317.00                             | Rupees Three Hundred Seventeen Only   | 5072.00                | Rupees Five Thousand Seventy Two Only                    |
| 73      | Carrying out in-situ vane shear tests in marine boreholes as per specifications and directions of the Engineer-in-charge including supply of all tools, plants, labour etc complete and submit the data with a report to the department.           | 46                   | nos. | 5000.00                            | Rupees Five Thousand Only             | 230000.00              | Rupees Two Lakh Thirty Thousand Only                     |
| 74      | Carrying out in-situ vane shear tests in land boreholes as per specifications and directions of the Engineer-in-charge including supply of all tools, plants, labour etc complete and submit the data with a report to the department.             | 8                    | nos. | 3000.00                            | Rupees Three Thousand Only            | 24000.00               | Rupees Twenty Four Thousand Only                         |
| 75      | Collect water samples from marine / land bore holes as per specifications and directions of the Engineer-in-Charge and transport the same to the approved laboratory.  | 5                    | nos. | 1500.00                            | Rupees One Thousand Five Hundred Only | 7500.00                | Rupees Seven Thousand Five Hundred Only                  |
|         | <b>Laboratory Tests</b>  |                      |      |                                    |                                       |                        |  |
| 76      | Natural moisture content in the laboratory on UD samples   | 108                  | nos. | 500.00                             | Rupees Five Hundred Only              | 54000.00               | Rupees Fifty Four Thousand Only                          |
| 77      | Wet and dry density at the field laboratory on UD samples  | 108                  | nos. | 500.00                             | Rupees Five Hundred Only              | 54000.00               | Rupees Fifty Four Thousand Only                          |
| 78      | Specific Gravity tests on samples from each stratum  | 108                  | nos. | 500.00                             | Rupees Five Hundred Only              | 54000.00               | Rupees Fifty Four Thousand Only                          |
| 79      | Particle size analysis by sieve/hydrometer analysis on samples from each stratum   | 108                  | nos. | 500.00                             | Rupees Five Hundred Only              | 54000.00               | Rupees Fifty Four Thousand Only                          |
| 80      | Unconfined compression tests on selected UDS in the laboratory on UD samples   | 108                  | nos. | 650.00                             | Rupees Six Hundred Fifty Only         | 70200.00               | Rupees Seventy Thousand Two Hundred Only                 |
| 81      | Direct shear tests on sandy samples  | 38                   | nos. | 683.00                             | Rupees Six Hundred Eighty Three Only  | 25954.00               | Rupees Twenty Five Thousand Nine Hundred Fifty Four Only |
| 82      | Chemical Analysis for Sulphate content in water  | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only        | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only           |
| 83      | Chemical Analysis for Sulphate content in soil   | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only        | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only           |
| 84      | Chemical Analysis for Chloride content in water  | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only        | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only           |

| Sl. No. | Sub- heads and items of Work  | Approximate Quantity | Unit | Departmental rates (Rs) in figures | Departmental rates (Rs) in words                     | Amount (Rs) in figures | Amount (Rs) in words  |
|---------|---|----------------------|------|------------------------------------|--|------------------------|---|
| 85      | Chemical Analysis for Organic content in soil   | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only                       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                  |
| 86      | Chemical Analysis for Calcium Carbonate in soil   | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only                       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                  |
| 87      | Chemical Analysis for Total salinity in water sample  | 7                    | nos. | 717.00                             | Rupees Seven Hundred Seventeen Only                  | 5019.00                | Rupees Five Thousand Nineteen Only  |
| 88      | Chemical Analysis for pH value on soil / water samples  | 7                    | nos. | 550.00                             | Rupees Five Hundred Fifty Only                       | 3850.00                | Rupees Three Thousand Eight Hundred Fifty Only                                  |
| 89      | Conducting Plate Load Test as per standard IS codes, including cost of materials, consumables, labour etc., complete on land    | 2                    | nos. | 75000.00                           | Rupees Seventy Five Thousand Only                    | 150000.00              | Rupees One Lakh Fifty Thousand Only   |
| 90      | Compilation and analysis of all field data and laboratory test data and submission of report giving recommendations (10 copies) | 1                    | no.  | 142500.00                          | Rupees One Lakh Forty Two Thousand Five Hundred Only | 142500.00              | Rupees One Lakh Forty Two Thousand Five Hundred Only                            |
|         | <b>TOTAL FOR PART C</b>   |                      |      |                                    |  | <b>3914671.00</b>      | <b>Rupees Thirty Nine Lakh Fourteen Thousand Six Hundred Seventy One Only</b>   |
|         | <b>GRAND TOTAL(PART A+PARTB+PARTC)</b>  |                      |      |                                    |  | <b>11008578.00</b>     | <b>Rupees One Crore Ten Lakh Eight Thousand Five Hundred Seventy Eight Only</b> |

**Rupees One Crore Ten Lakh Eight Thousand Five Hundred Seventy Eight Only**

| <b>BIDDER'S QUOTING AREA</b> |  |                             |                   |          |               |   |                                       |
|------------------------------|--|-----------------------------|-------------------|----------|---------------|---|---------------------------------------|
|                              |  | Departmental Estimated Cost | Percentage Quoted |          | Above / Below | Bidder's Quoted Amount (Rs.) in Figures | Bidder's Quoted Amount (Rs.) in Words |
|                              |  |                             | In figures        | In Words |               |   |                                       |
| (1)                          | (2)  | (3)                         | (4)               | (5)      | (6)           | (7)                                     | (8)                                   |
|                              | <p>Percentage quoted above/ below the departmental amount shown in the above schedule</p> <p>Note : 1. The Bidder shall fill columns (4) to (8).</p> <p>2.The Bidder shall quote either plus or minus in sign and in figures (eg: +5 or -5) in columns (4) &amp; (5). Only two decimal digits shall be accepted.</p> <p>3. The Bidder shall enter Above or Below under column (6).</p> | <b>11008578.00</b>          |                   |          |               |   |                                       |

**" This is an Electronic Submission No Need of Signature"**