

## LETTER OF ACCEPTANCE

To,  
Sri/Smt M/s.Paily Abraham  
PAN : ABGPA1871J

Your e-Tender No WRD/KWA-CE(CR)/TR/5213/2022\_26\_1\_1/1 dated 09-04-2023 for the AMRUT-Koothattukulam Municipality - -Renovation of existing WSS- Providing Distribution line and FHTCs-Pipeline Work has been accepted for a quoted amount of Rs. 47747226/- (Rupees Four Crore Seventy Seven Lakh Forty Seven Thousand Two Hundred and Twenty Six only) based on rates quoted for individual items individual items individual items individual items individual items which is mentioned in the accompanying schedule. You are directed to submit the stamp GRN ID/Stamp paper, Performance Guarantee and Additional Performance Guarantee as mentioned below and execute an agreement and start the work within a week after getting necessary instructions from the Executive Engineer(Public Health Division Muvattupuzha), Assistant Executive Engineer(Public Health Sub Division Muvattupuzha) and Assistant Engineer(Public Health Section Koothattukulam). The time allowed for executing agreement without fine will be 14 ( Fourteen) days from the date of issue of letter of acceptance and a further period of 10 ( Ten) days time will be allowed to execute the agreement after realizing a fine of Rs. 25000/- ( Twenty Five Thousand Only) .This fine shall be remitted in favour of the Managing Director, Kerala Water Authority, Account No - STSB 701011400000181, District Treasury, Thiruvananthapuram through e-treasury payment gateway.

1. stamp paper required value RS. 47750/- ( Forty Seven Thousand Seven Hundred and Fifty Only) shall be submitted to the Agreement Authority. (subject to govt orders)

2. Before executing the agreement, you should deposit a Performance Guarantee of 5% of contract value, ie. Rs. 2387361/- (Rupees Twenty Three Lakh Eighty Seven Thousand Three Hundred and Sixty One only) and should be submitted within 14 ( Fourteen) days of receipt of this LOA (Letter of Acceptance) as below.

a) At least Fifty (50%) of Performance Guarantee shall be in the form of Treasury Fixed Deposit in the name of Agreement Authority for a period not less than 28 (twenty eight) days after the completion of defect liability period.

b) Balance Performance Guarantee shall be in the form of bank guarantee. Bank Guarantee is to be submitted in the format prescribed by the Employer in the bid document. Bank Guarantee shall be unconditional and it shall be from any Nationalized/ Scheduled Bank/ Kerala Financial Corporation/ District Co-operative Banks, Primary Co-operative Banks, Urban Co-operative Banks or any other forms prescribed in the revised PWD Manual to be submitted before executing agreement and shall be valid till 28 (twenty eight) days after the completion of defect liability of the Work, in approved format. The Bank Guarantee on instalment basis with lesser period of validity shall not be accepted.

3. An Additional Performance Guarantee of Rs. 0/- (Rupees only) shall be also deposited for unbalanced price in addition to the normal Performance Guarantee in the following form and it should be to be submitted before executing agreement.

a) At least Fifty percent (50%) of Additional Performance Guarantee shall be in the form of Treasury Fixed Deposit in the name of Agreement Authority for a period not less than 28 (twenty eight) days after the completion of the work.

b) Balance Additional Performance Guarantee Treasury shall be in the form of bank guarantee. Bank Guarantee is to be submitted in the format prescribed by the Employer in the bid document. Bank Guarantee shall be unconditional and it shall be from any Nationalized/ Scheduled Bank/ Kerala Financial Corporation/ District Co-operative Banks, Primary Co-operative Banks, Urban Co-operative Banks or any other forms prescribed in the revised PWD Manual and shall be valid till 28(twenty eight) days after the completion of the Work, in approved format. The Bank Guarantee on instalment basis with lesser period of validity shall not be accepted.

OR

- a) Full amount of additional performance guarantee shall be accepted in case of guarantees issued by Kerala Financial Corporation
4. In addition to Performance Guarantee and Additional Performance Guarantee, Performance Security Deposit at the rate 2.5% of Bill amount will be deducted from running bills .
5. Solicitor's fee, if any, to be paid to the Law Officers of Government for scrutinising or drawing up of agreements- will be paid and the same recovered from the successful bidder.
6. You are requested to take an Insurance cover for this work for an amount of Rs. **238736 /-** (**Rupees Two Lakh Thirty Eight Thousand Seven Hundred and Thirty Six only**) and submit the same within 15 days of Start of work subjected to the provisions provided in the Bid Document. 0.2% of the Contract Amount will be deducted in the event of failure to submit the Insurance to the concerned Authorities as noted above. (The value shall be generally 0.5% of the Contract Value subject to a minimum of Rs. 2.00 lakh and maximum of Rs. 5.00 lakh.).
7. Engineering personnel in addition to other supporting staff as detailed below for tenure of the contract for works supervision shall be employed.  
**Works Manager- 1no.(Civil Engineering Graduate with minimum 3 years experience), Site Engineer - 2 nos (1 no for supervision and 1 no for Quality Control) (Civil Engineering graduate with minimum 1 year experience), Supervisor - 2 nos (Civil Engineering Diploma holder with minimum 1 year experience) and Supervisor(Mechanical) (if required) - 1 no (Mechanical Engineering Diploma holder with minimum 1 year experience).**
8. The Contractor shall enter into a Contract Agreement with the Agreement Authority within 14 Fourteen working days from the date of 'Acceptance of Tender' or within such extended time as may be granted by the Agreement Authority. The date of despatch of Letter of Acceptance through Contractors Portal shall be the date of Acceptance of Tender.
9. In the eventuality of failure to produce the original documents, or submit the performance security, or enter into agreement with the Agreement Authority within the specified time limit, the Bidder shall be debarred in future from participating in all Government Bids for three years and will be recommended for blacklisting by the competent authority. In such cases, the Government may rearrange the work otherwise or get it done departmentally at the risk and the cost of the Bidder and the loss so sustained by the Government can be realized from the Bidder under the Revenue recovery Act or otherwise the Government may decide.
10. The work should be completed in all respects within **6 months** from the date of handing over the site.
11. Defect Liability period will be **2 years**
12. All the details mentioned above shall be submitted to the Agreement Authority within 14 (fourteen) days from the date of 'Acceptance of Tender' or within such extended time as may be granted by the Agreement Authority.
13. All the terms and conditions of the Notice Inviting tenders and tender shall be binding on the Contractor.

**Pradeep V.K.(G14136)**  
**Superintending Engineer**

Digitally signed by PRADEEP V K  
Date:2023.05.22 02:44:17 +05:30

## ACCEPTED SCHEDULE

Name of Work: AMRUT- Koothattukulam Municipality - -Renovation of existing WSS-  
Providing Distribution line and FHTCs-Pipeline Work (DSR 2018 with Cost Index 135.59 )

| SI No    | Description of work   | No. or Qty. | Unit  | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|----------|---|-------------|-------|---------------|--------------|--|
| <b>1</b> | <b>Working charge</b>   |             |       |               |              |  |
| 1.001    | 100.1.1 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil. | 4484.875    | cum   | 604.09        | 2709268.14   | Rupees Twenty Seven Lakh Nine Thousand Two Hundred Sixty Eight And Fourteen paise Only |
| 1.002    | 100.1.5 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50 m, in Ordinary Rock.    | 2135.375    | cum   | 877.23        | 1873215.01   | Rupees Eighteen Lakh Seventy Three Thousand Two Hundred Fifteen And One paise Only     |
| 1.003    | 100.59.1 - Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the  | 1500.000    | metre | 33.10         | 49650.00     | Rupees Forty Nine Thousand Six Hundred Fifty Zero Only                                 |

| SI No | Description of work  | No. or Qty. | Unit  | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|-------|--|-------------|-------|---------------|--------------|--|
|       | direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.  |             |       |               |              |  |
| 1.004 | 15.2.1 - Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)   | 41.500      | cum   | 2223.88       | 92291.02     | Rupees Ninety Two Thousand Two Hundred Ninety One And Two paise Only                     |
| 1.005 | 15.59 - Dismantling of flexible pavement ( bituminous courses ) by mechanical means and disposal of dismantled material up to a lead of 1 kilo metre, as per direction of Engineer-in-charge.  | 1595.550    | cum   | 411.17        | 656042.29    | Rupees Six Lakh Fifty Six Thousand Zero Forty Two And Twenty Eight paise Only            |
| 1.006 | 16.83 - Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.   | 90.000      | sqm   | 120.37        | 10833.30     | Rupees Ten Thousand Eight Hundred Thirty Three And Thirty Zero paise Only                |
| 1.007 | 16.84 - Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost.) | 90.000      | sqm   | 414.94        | 37344.60     | Rupees Thirty Seven Thousand Three Hundred Forty Four And Sixty Zero paise Only          |
| 1.008 | 100.9.8 - Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and  | 8870.000    | metre | 94.65         | 839545.50    | Rupees Eight Lakh Thirty Nine Thousand Five Hundred Forty Five And Fifty Zero paise Only |

| SI No | Description of work  | No. or Qty. | Unit  | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|-------|--|-------------|-------|---------------|--------------|--|
|       | specials): 90 mm nominal outside diameter pipes.   |             |       |               |              |  |
| 1.009 | 100.9.10 - Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 140 mm nominal outside diameter pipes. | 1000.000    | metre | 182.98        | 182980.00    | Rupees One Lakh Eighty Two Thousand Nine Hundred Eighty Zero Only                        |
| 1.010 | 100.8.1 - Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals.   | 4500.000    | metre | 30.47         | 137115.00    | Rupees One Lakh Thirty Seven Thousand One Hundred Fifteen Only                           |
| 1.011 | 100.14.3 - Conveying and laying S & amp ; S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile Iron Class K-9 Pipes.   | 1860.000    | metre | 132.81        | 247026.60    | Rupees Two Lakh Forty Seven Thousand Zero Twenty Six And Sixty Zero paise Only           |
| 1.012 | 100.14.4 - Conveying and laying S & amp ; S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 250mm diameter Ductile Iron Class K-9 Pipes.   | 1860.000    | metre | 177.34        | 329852.40    | Rupees Three Lakh Twenty Nine Thousand Eight Hundred Fifty Two And Forty Zero paise Only |
| 1.013 | 18.70.3 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes  | 370.000     | joint | 281.38        | 104110.60    | Rupees One Lakh Four Thousand One Hundred Ten And Sixty Zero paise Only                  |
| 1.014 | 18.70.4 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:250 mm dia pipes  | 350.000     | joint | 343.62        | 120267.00    | Rupees One Lakh Twenty Thousand Two Hundred Sixty Seven Only                             |
| 1.015 | 100.31.1.3 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces,  | 1.000       | no    | 1075.65       | 1075.65      | Rupees One Thousand Zero Seventy Five And Sixty Five paise Only                          |

| SI No | Description of work  | No. or Qty. | Unit  | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words   |
|-------|--|-------------|-------|---------------|--------------|---|
|       | if required, will be paid separately): 125mm diameter, Class I.  |             |       |               |              |   |
| 1.016 | 100.31.1.5 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 200mm diameter, Class I.  | 1.000       | no    | 1693.75       | 1693.75      | Rupees One Thousand Six Hundred Ninety Three And Seventy Five paise Only          |
| 1.017 | 100.31.1.6 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 250mm diameter, Class I.  | 1.000       | no    | 2401.05       | 2401.05      | Rupees Two Thousand Four Hundred One And Five paise Only                          |
| 1.018 | 100.31.1.9 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 400mm diameter, Class I.  | 1.000       | no    | 4976.34       | 4976.34      | Rupees Four Thousand Nine Hundred Seventy Six And Thirty Four paise Only          |
| 1.019 | 100.35.3 - Testing 200mm DI/CI pipeline with potable water to the required test pressure<br>200 mm dia<br>Observed Data derived from item no.1020 of PHED DATA   | 1860.000    | metre | 43.50         | 80910.00     | Rupees Eighty Zero Thousand Nine Hundred Ten Only                                 |
| 1.020 | 100.35.4 - Testing 250mm DI/CI pipeline with potable water to the required test pressure .<br>250 mm dia<br>Observed Data derived from item no.1022 of PHED DATA   | 1860.000    | metre | 55.37         | 102988.20    | Rupees One Lakh Two Thousand Nine Hundred Eighty Eight And Twenty Zero paise Only |
| 1.021 | OD57737/2022-2023 - Shifting existing water connection to newly laid line using contractors own specials ( saddle piece , 15 mm ASTM (SH-8) pipe- 3 m, main cock and including cost of specials, labour charges and including cost of earth work excavation as per direction of dept. officers | 450.000     | no    | 2257.02       | 1015659.00   | Rupees Ten Lakh Fifteen Thousand Six Hundred Fifty Nine Only                      |
| 1.022 | 18.12.8 - Providing and fixing   | 150.000     | metre | 1108.94       | 166341.00    | Rupees One  |

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|-------|---|-------------|------|---------------|--------------|---|
|       | G.I. pipes complete with G.I fittings including trenching and refilling etc. External work 80 mm dia nominal bore   |             |      |               |              | Lakh Sixty Six Thousand Three Hundred Forty One Only                          |
| 1.023 | OD58151/2022-2023 - Inter-connection work with existing 110 mm uPVC pipe lines and newly laid lines including , earth work excavation in all kinds of soil for for exposing joint portion of the pipe including tar cutting / concrete cutting, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, lighting, watching, ribbon fencing, traffic controlling etc.complete as per the direction of Departmental officers including the cost of pipe and specials; Pipes and specials shall be of good quality and conforming to relevant standards: one CID Joint/CIR joint | 15.000      | no   | 2768.73       | 41530.95     | Rupees Forty One Thousand Five Hundred Thirty Zero And Ninety Five paise Only |
| 1.024 | OD58152/2022-2023 - Inter-connection work with existing 160mm/140mm PVC (Class 2 to 6) pipe lines to newly laid lines including , earth work excavation in all kinds of soil for for exposing joint portion of the pipe including tar cutting / concrete cutting, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new  | 2.000       | no   | 3434.37       | 6868.74      | Rupees Six Thousand Eight Hundred Sixty Eight And Seventy Four paise Only     |

| SI No | Description of work  | No. or Qty. | Unit | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|-------|--|-------------|------|---------------|--------------|--|
|       | pipe in to the trenches,placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards,lighting,watching, ribbon fencing, traffic controlling etc.complete as per the direction of Departmental officers including the cost of pipe and PVC specials; PVC Pipes and specials shall be of good quality and conforming to relevant standards: One socket joint and one CID Joint |             |      |               |              |  |
| 1.025 | OD80772/2022-2023 - Interconnection work in newly laid 250/200mm DI K9 with existing pipe lines including , earth work excavation in all kinds of soil for for exposing joint portion of the pipe including tar cutting / concrete cutting, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new pipe in to the trenches,placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including   | 4.000       | no   | 12907.97      | 51631.88     | Rupees Fifty One Thousand Six Hundred Thirty One And Eighty Eight paise Only |

| SI No | Description of work   | No. or Qty. | Unit | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|-------|---|-------------|------|---------------|--------------|--|
|       | consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, lighting, watching, ribbon fencing, traffic controlling etc. complete as per the direction of Departmental officers including the cost of specials  |             |      |               |              |  |
| 1.026 | 18.30.9 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:400 mm diameter pipe   | 2.000       | no   | 1159.64       | 2319.28      | Rupees Two Thousand Three Hundred Nineteen And Twenty Eight paise Only       |
| 1.027 | 18.30.5 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe   | 4.000       | no   | 455.05        | 1820.20      | Rupees One Thousand Eight Hundred Twenty And Twenty Zero paise Only          |
| 1.028 | 18.30.6 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:250 mm diameter pipe   | 4.000       | no   | 620.42        | 2481.68      | Rupees Two Thousand Four Hundred Eighty One And Sixty Eight paise Only       |
| 1.029 | 100.37.7.2 - Fabricating M.S. flanges of diameter 200mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates. | 8.000       | no   | 2158.16       | 17265.28     | Rupees Seventeen Thousand Two Hundred Sixty Five And Twenty Eight paise Only |
| 1.030 | 100.37.8.2 - Fabricating M.S. flanges of diameter 250mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates. | 8.000       | no   | 2648.13       | 21185.04     | Rupees Twenty One Thousand One Hundred Eighty Five And Four paise Only       |
| 1.031 | OD172078/2022-2023 -  | 25.000      | Each | 582.46        | 14561.50     | Rupees   |

| SI No    | Description of work  | No. or Qty. | Unit     | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|----------|--|-------------|----------|---------------|--------------|--|
|          | Labour for cutting C I/ D I pipe with steel saw.<br>250mm dia. D I pipe  |             | Cut      |               |              | Fourteen Thousand Five Hundred Sixty One And Fifty Zero paise Only                       |
| 1.032    | OD172077/2022-2023 - Labour for cutting CI/ DI pipe with steel saw.<br>200 mm diameter D.I. pipe   | 20.000      | Each Cut | 468.38        | 9367.60      | Rupees Nine Thousand Three Hundred Sixty Seven And Sixty Zero paise Only                 |
| 1.033    | OD58433/2022-2023 - Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc., including cost of pipes and fittings for External work: 125mm diameter nominal bore.   | 30.000      | metre    | 2296.19       | 68885.70     | Rupees Sixty Eight Thousand Eight Hundred Eighty Five And Seventy Zero paise Only        |
| <b>2</b> | <b>New water connections</b>   |             |          |               |              |  |
| 2.001    | 100.60.1.1.2 - Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5 m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. | 420.000     | no       | 6418.81       | 2695900.20   | Rupees Twenty Six Lakh Ninety Five Thousand Nine Hundred Zero And Twenty Zero paise Only |

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|-------|---|-------------|-------|---------------|--------------|---|
| 2.002 | 100.60.2.1.2 - Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains from 140mm to 200mm dia., up to a length of 5 m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. | 60.000      | no    | 6636.30       | 398178.00    | Rupees Three Lakh Ninety Eight Thousand One Hundred Seventy Eight Only                  |
| 2.003 | 100.60.3.1.1 - Providing additional length of house connection pipe using 20mm Indian Standard Class 6 uPVC pipe and specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per the directions of  | 4275.000    | metre | 192.35        | 822296.25    | Rupees Eight Lakh Twenty Two Thousand Two Hundred Ninety Six And Twenty Five paise Only |

| SI No | Description of work  | No. or Qty. | Unit  | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|-------|--|-------------|-------|---------------|--------------|--|
|       | the department officers  |             |       |               |              |  |
| 2.004 | 100.60.1.3.2 - Providing 20mm (3/4 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5 m using 25mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. | 10.000      | no    | 7095.39       | 70953.90     | Rupees Seventy Zero Thousand Nine Hundred Fifty Three And Ninety Zero paise Only |
| 2.005 | 100.60.3.2.1 - Providing additional length of house connection pipe using 25mm Indian Standard Class 6 uPVC pipe and specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc.,  | 800.000     | metre | 207.07        | 165656.00    | Rupees One Lakh Sixty Five Thousand Six Hundred Fifty Six Only                   |

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|-------|---|-------------|------|---------------|--------------|---|
|       | and as per the directions of the department officers  |             |      |               |              |   |
| 2.006 | 100.60.2.3.2 - Providing 20mm (3/4 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains from 140mm to 200mm dia., up to a length of 5 m using 25mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. | 10.000      | no   | 7312.88       | 73128.80     | Rupees Seventy Three Thousand One Hundred Twenty Eight And Eighty Zero paise Only |
| 2.007 | 100.60.12.3.2 - Providing 15mm PVC Tap in the water meter assembly for 15mm connection, using 20mm Indian Standard Class 6 uPVC pipes and specials including cost of consumables, hire charges for tools and labour charges etc. complete, but excluding cost of materials and as per the direction of departmental officers.   | 500.000     | no   | 464.43        | 232215.00    | Rupees Two Lakh Thirty Two Thousand Two Hundred Fifteen Only                      |
| 2.008 | 100.60.10.4.1 - Providing 20mm (1/2 inch) PVC Air Valve in the water meter assembly for 15mm connection, using 20mm   | 500.000     | no   | 408.81        | 204405.00    | Rupees Two Lakh Four Thousand Four Hundred Five Only                              |

| SI No    | Description of work   | No. or Qty. | Unit    | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words   |
|----------|---|-------------|---------|---------------|--------------|---|
|          | Indian Standard Class 6 uPVC pipes and specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers. |             |         |               |              |   |
| <b>3</b> | <b>Cost of Materials</b>  |             |         |               |              |   |
| 3.001    | 100.98.117 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.  | 1860.000    | metre   | 2697.21       | 5016810.60   | Rupees Fifty Zero Lakh Sixteen Thousand Eight Hundred Ten And Sixty Zero paise Only             |
| 3.002    | 100.98.118 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 250mm Dia.  | 1860.000    | metre   | 3767.54       | 7007624.40   | Rupees Seventy Zero Lakh Seven Thousand Six Hundred Twenty Four And Forty Zero paise Only       |
| 3.003    | OD172830/2022-2023 - Supply of PVC Pipe and specials, 10kg/cm <sup>2</sup> , 90mm Dia.  | 8870.000    | metre   | 399.17        | 3540637.90   | Rupees Thirty Five Lakh Forty Zero Thousand Six Hundred Thirty Seven And Ninety Zero paise Only |
| 3.004    | OD172829/2022-2023 - Supply PVC Pipe and specials, 10kg/cm <sup>2</sup> , 140mm Dia.  | 1000.000    | metre   | 968.59        | 968590.00    | Rupees Nine Lakh Sixty Eight Thousand Five Hundred Ninety Zero Only                             |
| 3.005    | 18.68.1 - Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia  | 20.490      | quintal | 21880.18      | 448324.89    | Rupees Four Lakh Forty Eight Thousand Three Hundred Twenty Four And Eighty Nine paise Only      |
| 3.006    | 100.98.459 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 125mm.  | 1.000       | no      | 12034.00      | 12034.00     | Rupees Twelve Thousand Zero Thirty Four Only  |
| 3.007    | 100.98.461 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 200mm.  | 1.000       | no      | 25797.08      | 25797.08     | Rupees Twenty Five Thousand Seven Hundred Ninety Seven And Eight paise Only                     |
| 3.008    | 100.98.462 - Supply of CI Double Flanged Sluice Valve   | 1.000       | no      | 37365.04      | 37365.04     | Rupees Thirty Seven   |

| SI No    | Description of work  | No. or Qty. | Unit | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words   |
|----------|--|-------------|------|---------------|--------------|---|
|          | Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 250mm.   |             |      |               |              | Thousand Three Hundred Sixty Five And Four paise Only                                       |
| 3.009    | 100.98.465 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 400mm.   | 1.000       | no   | 103169.39     | 103169.39    | Rupees One Lakh Three Thousand One Hundred Sixty Nine And Thirty Nine paise Only            |
| <b>4</b> | <b>Road Restoration BMBC surface</b>   |             |      |               |              |   |
| 4.001    | 3.6 - Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m   | 1850.500    | cum  | 52.80         | 97706.40     | Rupees Ninety Seven Thousand Seven Hundred Six And Forty Zero paise Only                    |
| 4.002    | 4.2.A.1 - Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method                                   | 925.250     | cum  | 3424.70       | 3168703.68   | Rupees Thirty One Lakh Sixty Eight Thousand Seven Hundred Three And Sixty Eight paise Only  |
| 4.003    | 4.12 - Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. | 925.250     | cum  | 3524.66       | 3261191.67   | Rupees Thirty Two Lakh Sixty One Thousand One Hundred Ninety One And Sixty Seven paise Only |
| 4.004    | 5.1.a - Providing and applying primer coat with bitumen emulsion ( SS) on prepared surface of granular Base including clearing of road surface and spraying primer at  | 6151.500    | sqm  | 79.88         | 491381.82    | Rupees Four Lakh Ninety One Thousand Three Hundred Eighty One And Eighty Two                |

| SI No    | Description of work   | No. or Qty. | Unit | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|----------|---|-------------|------|---------------|--------------|--|
|          | the rate of 0.70 - 1.0 kg/sqm using mechanical means.   |             |      |               |              | paise Only   |
| 4.005    | 5.2.b - Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.   | 6151.500    | sqm  | 15.73         | 96763.10     | Rupees Ninety Six Thousand Seven Hundred Sixty Three And Ten paise Only                      |
| 4.006    | 5.3.2.a - Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)   | 307.575     | cum  | 9361.63       | 2879403.35   | Rupees Twenty Eight Lakh Seventy Nine Thousand Four Hundred Three And Thirty Five paise Only |
| 4.007    | 5.2.a - Providing and applying tack coat with bitumen emulsion( RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.   | 6151.500    | sqm  | 12.96         | 79723.44     | Rupees Seventy Nine Thousand Seven Hundred Twenty Three And Forty Four paise Only            |
| 4.008    | 5.6.2.a - Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder( NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size) | 184.545     | cum  | 14381.83      | 2654094.82   | Rupees Twenty Six Lakh Fifty Four Thousand Zero Ninety Four And Eighty Two paise Only        |
| <b>5</b> | <b>Road Restoration OGPC surface</b>  |             |      |               |              |  |

| SI No | Description of work  | No. or Qty. | Unit | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words   |
|-------|--|-------------|------|---------------|--------------|---|
| 5.001 | 3.6 - Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m   | 157.500     | cum  | 52.80         | 8316.00      | Rupees Eight Thousand Three Hundred Sixteen Only  |
| 5.002 | 4.2.A.1 - Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method                                   | 78.750      | cum  | 3424.70       | 269695.13    | Rupees Two Lakh Sixty Nine Thousand Six Hundred Ninety Five And Thirteen paise Only       |
| 5.003 | 4.12 - Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. | 78.750      | cum  | 3524.66       | 277566.98    | Rupees Two Lakh Seventy Seven Thousand Five Hundred Sixty Six And Ninety Eight paise Only |
| 5.004 | 5.1.a - Providing and applying primer coat with bitumen emulsion ( SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means.  | 525.000     | sqm  | 79.88         | 41937.00     | Rupees Forty One Thousand Nine Hundred Thirty Seven Only                                  |
| 5.005 | 5.2.b - Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.  | 525.000     | sqm  | 15.73         | 8258.25      | Rupees Eight Thousand Two Hundred Fifty Eight And Twenty Five paise Only                  |
| 5.006 | 5.7.1 - Providing, laying and rolling of close-graded premix   | 525.000     | sqm  | 227.19        | 119274.75    | Rupees One Lakh Nineteen  |

| SI No    | Description of work   | No. or Qty. | Unit | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words   |
|----------|---|-------------|------|---------------|--------------|---|
|          | surfacing material of 20 mm thickness composed of 11.2 mm to 0.09 mm (Type-A) aggregates using viscosity grade bitumen ( VG - 30) to the required line, grade, and level to serve as wearing course on a previously prepared base, including mixing in a suitable HMP of appropriate capacity not less than 75 tonnes/hour., laying and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to the required level and grade.                              |             |      |               |              | Thousand Two Hundred Seventy Four And Seventy Five paise Only                       |
| 5.007    | 5.8.a - Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder (VG 30) laid on the prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. Grading I - 19 mm nominal chipping size   | 525.000     | sqm  | 121.91        | 64002.75     | Rupees Sixty Four Thousand Zero Two And Seventy Five paise Only                     |
| <b>6</b> | <b>Road Restoration LSGD Surface</b>  |             |      |               |              |   |
| 6.001    | 3.5.3 - Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m &lt;br&gt; Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3 | 542.000     | cum  | 39.40         | 21354.80     | Rupees Twenty One Thousand Three Hundred Fifty Four And Eighty Zero paise Only      |
| 6.002    | 4.1.A.1 - Granular Sub-base with Well Graded Material (Table 400.1) &lt;br&gt; (A) By Mix in Place Method &lt;br&gt; Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as   | 271.000     | cum  | 3229.91       | 875305.61    | Rupees Eight Lakh Seventy Five Thousand Three Hundred Five And Sixty One paise Only |

| SI No | Description of work  | No. or Qty. | Unit | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|-------|--|-------------|------|---------------|--------------|--|
|       | per Technical Specification Clause 401. &lt;br&gt; (i) For Grading I Material  |             |      |               |              |  |
| 6.003 | 4.9 - Wet Mix Macadam &lt;br&gt; Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & amp; 400.12 and Technical Specification Clause 406. &lt;br&gt; By Mechanical Means with 1 km lead | 271.000     | cum  | 3606.31       | 977310.01    | Rupees Nine Lakh Seventy Seven Thousand Three Hundred Ten And One paise Only       |
| 6.004 | 5.1.1a - Prime Coat :- Low porosity &lt;br&gt; Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502   | 2710.000    | sqm  | 96.13         | 260512.30    | Rupees Two Lakh Sixty Zero Thousand Five Hundred Twelve And Thirty Zero paise Only |
| 6.005 | 5.2.3a - Tack Coat &lt;br&gt; Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & amp; cleaned with Hydraulic broom as per Technical Specification Clause 503.   | 2710.000    | sqm  | 17.43         | 47235.30     | Rupees Forty Seven Thousand Two Hundred Thirty Five And Thirty Zero paise Only     |
| 6.006 | 5.9.1.2a - 20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 &lt;br&gt; Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates  | 2710.000    | sqm  | 219.19        | 594004.90    | Rupees Five Lakh Ninety Four Thousand Zero Four And Ninety Zero paise Only         |

| SI No | Description of work   | No. or Qty. | Unit | Accepted Rate | TOTAL AMOUNT | TOTAL AMOUNT in words  |
|-------|---|-------------|------|---------------|--------------|--|
|       | either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508. <br> <br> Case - I By Manual Means <br> (I) Bitumen (S-65) |             |      |               |              |  |
| 6.007 | 5.12.A.3.2a - Seal Coat - Manual Means - Type C - Bitumen S-65 <br> Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 <br> A. By Manual Means :- Case - III : Type C <br> (II) Bitumen (S-65)   | 2710.000    | sqm  | 93.01         | 252057.10    | Rupees Two Lakh Fifty Two Thousand Zero Fifty Seven And Ten paise Only                       |
| 6.008 | 75.8.1 - Providing Plain cement concrete for road work CC 1:2:4 (1 cement: 2 fine aggregate: 4course aggregate) laid to required slope and camber in panels (@ 3 m c/c) as required including compaction, finishing and tamping etc .complete. Max. size of course aggregate not exceeding 25mm , mixed in concrete mixer etc complete as perspecification (i) Nominal mix (1:2:4)  | 41.500      | cum  | 9032.19       | 374835.89    | Rupees Three Lakh Seventy Four Thousand Eight Hundred Thirty Five And Eighty Nine paise Only |

The above work awarded to the contractor Paily Abraham, ABGPA1871J, at his quoted rate for individual items at a total accepted PAC 47747226( Four Crore Seventy Seven Lakh Forty Seven Thousand Two Hundred and Twenty Six Only) as per the condition of the contract.