

# COMPLETE BIDDING DOCUMENT VOLUME-III

**SR to Providing fire Fighetening System at Taluka  
Seva Sadan Vinchhiya Dist. Rajkot (Job  
No.Dist/Raj/SR/NR/ 2025-26/03)**



This is a generic SBD to be used for Civil works. Each user/concern department needs to examine and put up their particular bidding requirement like; qualification criteria, contract Data etc., marked at [#] while finalizing their own bidding process.

**SECTION - 6**  
**FORM OF BID**

## FORM OF BID

Description of the Works:

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BID

To :

Address :

1. We offer to execute the Works described above and remedy any defects therein in conformity with the conditions of Contract, specification, drawings, Bill of Quantities and Addenda for the sum (s) of

\_\_\_\_\_  
\_\_\_\_\_  
(-----)

2. We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works in the Contract within the time stated in the document.
3. We agree to abide by this Bid for the period of 120 Days from the date fixed for receiving the same, and it shall remain binding upon it and may be accepted at any time before the expiration of that period.
4. Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this ----- day of ----- 20

Signature ----- in the capacity of -----

----- duly authorized to sign bids for and on behalf of -----

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\_\_\_\_\_

(in block capitals or typed)

Address

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Witness

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Address

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Occupation

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**SECTION - 7**  
**BILL OF QUANTITIES**

## **BILL OF QUANTITIES**

### **Preamble**

1. The bill of Quantities shall be read in conjunction with the Instructions to Bidder, Conditions of Contract, Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, layout, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The rates and prices shall be quoted entirely in Indian Currency.
5. A rate or prices shall be entered against each item in the Bill Quantities, whether quantities are stated or not. The cost of Items against which Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities (in case of Item rate contract).
6. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related items of Work.
7. General direction and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering rates or prices against each item in the Bill of Quantities.
8. The method of completed work of payment shall be in accordance with the specification for Road and Bridge works. For building works specifications for building are to be followed.
9. Errors will be corrected by the Employer for any arithmetic errors pursuant to **Clause 29** of the Instructions to Bidder.
10. Rock is defined as all materials which, in the opinion of the Engineer, required blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for its removal, and which cannot be extracted by ripping with a tractor of at least 150 kw with a single rear mounted heavy duty ripper.

## BILL OF QUANTITIES

### (A) Percentage Rate Tender (Up to INR 50 Cr. )

| Item No                               | Description of Item (with brief specification and reference to book of specifications) | Quantity | Unit | Rate In figures | Amount |
|---------------------------------------|--|----------|------|-----------------|--------|
| ----- AS PER ATTACHED SEPERATELY----- |  |          |      |                 |        |

I/We am/are willing to carry out the work at.....% above/below percent (Should be written in figures and words) of the estimated rate mentioned above. Amount of my /our tender works out as under.

Estimated amount put to tender

Estimated amount put to tender

Deduct.....% below

Add.....% Above

Net

Net

In words

In words

### (B) For Item Rate Tender (For above INR50Cr.):

| Item No                               | Description of Item (with brief specification and reference to book of specifications) | Quantity | Unit | Rate       |          | Amount |
|---------------------------------------|--|----------|------|------------|----------|--------|
|                                       |  |          |      | In figures | In Words |        |
| ----- AS PER ATTACHED SEPERATELY----- |  |          |      |            |          |        |

(A) Total Tendered Amount

(B) Rebate on above tendered amount (if any) % (in figure) .....  
(in words).....

(C) Net Tendered Amount (A-B) (in figure) .....  
(in words).....

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|   |   |
|---|---|
| 1 | The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.  |
| 2 | The labourcess will be deducted as per prevailing rules i.e. 1% of the work done.   |
| 3 | GST and Income tax TDS will be deducted at a source while making payments of bills  |
| 4 | In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender. |

**Name of work :- SR to Providing Fire Fighetening System at Taluka Seva Sadan, Vinchhiya, Di : Rajkot Job No. Dist / Raj / S.R. / N.R. / 2025 - 2026 / 03**

**Schedule - B**

| <b>Item No.</b> | <b>Quantities estimated but may be more or less</b> | <b>Item of work</b>  | <b>Estimated Rates</b> |   | <b>Unit</b> | <b>Total Amount according to estimated quantities</b> |
|-----------------|---|--|------------------------|---|-------------|---|
|                 |   |  | <b>In Figure</b>       | <b>In Words</b>   |             |   |
| <b>1</b>        | <b>2</b>  | <b>3</b>   | <b>4</b>               | <b>5</b>  | <b>6</b>    | <b>7</b>  |
| 1               | 7.00 No.  | Supply and Installing of ABC type 6 - Kg Capacity duly ISI marked confirmed to IS 15863 : 2006 with IS 14609 ISI marked powder complete with squeeze grip release valve, locking arrangement, pressure gauge operation manual with bracket | 4166.25                | Rupees Four Thousand One Hundred Sixty Six & Paise Twenty Five Only         | No.         | 29163.75  |
| 2               | 7.00 No.  | Supply and Installing of gas Co2 type 4.5 - Kg capacity duly ISI marked conforming to IS 15683 with horn, valve locking arrangement, operation manual with bracket   | 13357.25               | Rupees Thirteen Thousand Three Hundred Fifty Seven & Paise Twenty Five Only | No.         | 93500.75  |



|   |               |   |          |   |      |           |
|---|---------------|---|----------|---|------|-----------|
| 3 | 12.00<br>No.  | Supply, Installing, Testing & Commissioning of Fire Hotter, manual call point and ON - OFF switch with PVC pipe, wire and panel for hotter and call point etc. compel.  | 14342.00 | Rupees Fourteen<br>Thousand Three<br>Hundred Forty Two<br>Only                  | No.  | 172104.00 |
| 4 | 42.00<br>No.  | Providing, supplying and fixing in position Fire protection safety sign as per 15:12349-1988 etc complete. This safety signage board shall be printed on acrylic sheet with sticker. The red, green & yellow colour shall confirm to shade No : 536, 221 and 309 of IS code : S-1978 (colours for ready mixed paints and enamels- third Revision). this signages shall have night glow in dark region. (A) 12" X 18" Size | 1085.75  | Rupees One<br>Thousand Eighty<br>Five & Paise Seventy<br>Five Only              | No.  | 45601.50  |
| 5 | 46.00<br>Rmt. | Providing supplying, installing and testing of ISI mark "B" class 150mm dia under ground G.I. pipe with flange, gasket, Nut bolts and other accessories etc complete as per instruction of engineers-in-charge (MA)   | 3307.75  | Rupees Three<br>Thousand Three<br>Hundred Seven &<br>Paise Seventy Five<br>Only | Rmt. | 152156.50 |
| 6 | 10.00<br>Rmt. | Providing supplying, installing and testing of ISI mark "B" class 100mm dia under ground G.I. pipe with flange, gasket, Nut bolts and other accessories etc complete as per instruction of engineers-in-charge (MA)   | 2878.50  | Rupees Two<br>Thousand Eight<br>Hundred Seventy<br>Eight & Paise Fifty<br>Only  | Rmt. | 28785.00  |

|    |                |   |          |   |      |           |
|----|----------------|---|----------|---|------|-----------|
| 7  | 12.00<br>Rmt   | Providing supplying, installing and testing of ISI mark "B" class 150mm dia above ground G.I. pipe with flange, gasket, Nut bolts and other accessories etc complete as per instruction of engineers-in-charge (MA) | 3004.75  | Rupees Three Thousand Four & Paise Seventy Five Only                  | Rmt  | 36057.00  |
| 8  | 171.00<br>Rmt. | Providing supplying, installing and testing of ISI mark "B" class 100mm dia above ground G.I. pipe with flange, gasket, Nut bolts and other accessories etc complete as per instruction of engineers-in-charge (MA) | 2600.75  | Rupees Two Thousand Six Hundred & Paise Seventy Five Only             | Rmt. | 444728.25 |
| 9  | 12.00<br>Rmt.  | Providing supplying, installing and testing of ISI mark "B" class 80mm dia above ground G.I. pipe with flange, gasket, Nut bolts and other accessories etc complete as per instruction of engineers-in-charge (MA)  | 1767.50  | Rupees One Thousand Seven Hundred Sixty Seven & Paise Fifty Only      | Rmt. | 21210.00  |
| 10 | 2.00<br>No.    | Providind, Supplying, Installing and testing of ISI mark double flange ISI mark C.I. 150mm dia sluice valve with flange, Gasket, Nut bolts and other necessary accessories etc complete as per engineer-in-charge.  | 14897.50 | Rupees Fourteen Thousand Eight Hundred Ninty Seven & Paise Fifty Only | No.  | 29795.00  |

|    |             |  |          |   |     |          |
|----|-------------|--|----------|---|-----|----------|
| 11 | 4.00<br>No. | Providind, Supplying, Installing and testing of ISI mark double flange ISI mark C.I. 150mm dia non return valve with flange, Gasket, Nut bolts and other necessary accessories etc complete as per engineer-in-charge. | 12372.50 | Rupees Twelve Thousand Three Hundred Seventy Two & Paise Fifty Only   | No. | 49490.00 |
| 12 | 2.00<br>No. | Providind, Supplying, Installing and testing of ISI mark double flange ISI mark C.I. 100mm dia sluice valve with flange, Gasket, Nut bolts and other necessary accessories etc complete as per engineer-in-charge.     | 12877.50 | Rupees Twelve Thousand Eight Hundred Seventy Seven & Paise Fifty Only | No. | 25755.00 |
| 13 | 3.00<br>No. | Providind, Supplying, Installing and testing of ISI mark double flange ISI mark C.I. 100mm dia non return valve with flange, Gasket, Nut bolts and other necessary accessories etc complete as per engineer-in-charge. | 10049.50 | Rupees Ten Thousand Forty Nine & Paise Fifty Only                     | No. | 30148.50 |
| 14 | 7.00<br>No. | providing, Supplying, installing & testing of ISI mark SS metal single head Hydraul valve of 63mm dia with Nut bolts, Flange, Gasket and other accessories etc complete as per instruction of Engineer-in-charge.      | 8686.00  | Rupees Eight Thousand Six Hundred Eighty Six Only                     | No. | 60802.00 |

|    |              |  |         |  |     |          |
|----|--------------|--|---------|--|-----|----------|
| 15 | 4.00<br>No.  | Providing, Supplying, Installing and testing of 100mm dia with 1% accuracy direct bottom 3/8" BSP Connection pressure guage in brass socket having range of 0 to 16 kg/cm2 etc complete as per instruction of Engineer-in-charge | 2626.00 | Rupees Two<br>Thousand Six<br>Hundred Twenty Six<br>Only                             | No. | 10504.00 |
| 16 | 1.00<br>No.  | Providing, Suppling, Installing and testing of Air valve of 25mm dia for Riser. Main line for air release etc complete as per instruction of Engineer-in-charge  | 1287.75 | Rupees One<br>Thousand Two<br>Hundred Eighty<br>Seven & Paise<br>Seventy Five Only   | No. | 1287.75  |
| 17 | 8.00<br>No.  | Providing, Supplying, Installing and testing of 25mm dia gun metal wheel valve with nipples, Gasket and other accessories etc complete as per instruction of Engineer-in-charge  | 1237.25 | Rupees One<br>Thousand Two<br>Hundred Thirty<br>Seven & Paise<br>Twenty Five Only    | No. | 9898.00  |
| 18 | 1.00<br>No.  | Providing, Supplying, Installing and Testing of 63mm dia two way fire bridge inlet valve with SS non-return valve Flange, Gasket etc complete as per instruction of Engineer-in-charge   | 6161.00 | Rupees Six<br>Thousand One<br>Hundred Sixty One<br>Only                              | No. | 6161.00  |
| 19 | 14.00<br>No. | Providing, Supplying, Installing and testing of ISI mark 63mm dia 15meter length long hose pipe with SS Metal male & female coupling with Aluminum wire etc complete as per instruction of Engineer-in-charge                    | 5883.25 | Rupees Five<br>Thousand Eight<br>Hundred Eighty<br>Three & Paise<br>Twenty Five Only | No. | 82365.50 |

|    |             |  |           |  |     |           |
|----|-------------|--|-----------|--|-----|-----------|
| 20 | 7.00<br>No. | Providing, Supplying, Installing and Testing of 63mm dia SS metal branch pipe with nozzles etc complete as per instruction of Engineer-in-charge   | 2929.00   | Rupees Two Thousand Nine Hundred Twenty Nine Only  | No. | 20503.00  |
| 21 | 7.00<br>No. | Providing, Supplying, Installing & Testing of 25mm & 45 meter length long hose red with M.S. drum and other accessories etc complete as per instruction of Engineer-in-charge  | 10605.00  | Rupees Ten Thousand Six Hundred Five Only  | No. | 74235.00  |
| 22 | 7.00<br>No. | Providing, Supplying, Installing & Testing of Double door M.S. Hose box for 2 no of hose pipe & 2 no of branch pipe with handle and other accessories etc complete as per instruction of Engineer-in-charge  | 3888.50   | Rupees Three Thousand Eight Hundred Eighty Eight & Paise Fifty Only                      | No. | 27219.50  |
| 23 | 1.00<br>No  | Providing, Supplying, Installing & Testing of Electri Driven Main Fire Pump End Suction Back Pullout type Cap 1620 LPM & 56-Mtr Head In CI Casing And Bronze Inpaller with Sutable H.P Squirrel cage Motore TEFC speed 2900RPM with coupling, coupling gard , Base fram and AVM Pade etc necessary | 287125.83 | Rupees Two Lakhs Eighty Seven Thousand One Hundred Twenty Five & Paise Eighty Three Only | No  | 287125.83 |

|    |            |   |           |   |    |           |
|----|------------|---|-----------|---|----|-----------|
| 24 | 1.00<br>No | Providing, Supplying, Installing & Testing of Diesel Engine Driven Fire Pump End Suction Back Pullout type Cap 1620 LPM & 56-Mtr Head In CI Casing And Bronze Inpaller with Sutable H.P speed 2300RPM water cooled with radiator, Diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12/24 volts battry starting equipment, diesel tank, battery, silencer, Base plate, coupling and coupling gard, AVM pade etc necessary | 517840.13 | Rupees Five Lakhs<br>Seventeen Thousand<br>Eight Hundred Forty<br>& Paise Thirteen<br>Only        | No | 517840.13 |
| 25 | 1.00<br>No | Providing, Supplying, Installing & Testing of Electri Driven Jocky pump, Pump shoud be End Suction Back Pullout type Cap 180 LPM & 56-Mtr Head In CI Casing And Bronze Inpaller with Sutable H.P Squirrel cage Motore TEFC speed 2900RPM with coupling, coupling gard , Base fram and AVM Pade etc necessary  | 82930.09  | Rupees Eighty Two<br>Thousand Nine<br>Hundred Thirty &<br>Paise Nine Only                         | No | 82930.09  |
| 26 | 1.00<br>No | Providing, Supplying, Installing & Testing of main Electric Panle for main , diesel engine and jocky pump   | 248187.30 | Rupees Two Lakhs<br>Forty Eight<br>Thousand One<br>Hundred Eighty<br>Seven & Paise Thirty<br>Only | No | 248187.30 |

|    |                |   |         |  |     |           |
|----|----------------|---|---------|--|-----|-----------|
| 27 | 1.00<br>No     | Providing, Supplying, Installing & Testing of Pressure switch range 0 to 10 kg with necessary fitting.  | 1561.46 | Rupees One Thousand Five Hundred Sixty One & Paise Forty Six Only      | No  | 1561.46   |
| 28 | 150.00<br>No   | Providing, Supplying, Installing & Testing of smoke detector For Fire Fightening System etc complete as per Instruction of Engineer-in-Charge.                                    | 1035.25 | Rupees One Thousand Thirty Five & Paise Twenty Five Only               | No  | 155287.50 |
| 29 | 3000.00<br>Rmt | Providing, Supplying, Installing & Testing of 1.50 Sq mm X 2 core round flaxible cable for smoke detector with 20mm dia PVC pipe sadel, clampe etc necessary                      | 35.35   | Rupees Thirty Five & Paise Thirty Five Only                            | Rmt | 106050.00 |
| 30 | 9.00<br>Cum    | Demolition including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work  | 1133.88 | Rupees One Thousand One Hundred Thirty Three & Paise Eighty Eight Only | Cum | 10204.92  |
| 31 | 14.00<br>Cum   | Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil | 128.78  | Rupees One Hundred Twenty Eight & Paise Seventy Eight Only             | Cum | 1802.92   |

|    |               |   |         |  |      |          |
|----|---------------|---|---------|--|------|----------|
| 32 | 23.00<br>Cum  | Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil   | 164.82  | Rupees One Hundred Sixty Four & Paise Eighty Two Only                  | Cum  | 3790.86  |
| 33 | 8.00<br>Cum   | Providing and laying Cement Concrete 1:3:6 using 40mm size crushed agg. in foundation and plinth.   | 3257.25 | Rupees Three Thousand Two Hundred Fifty Seven & Paise Twenty Five Only | Cum  | 26058.00 |
| 34 | 27.00<br>Cum  | Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.   | 299.66  | Rupees Two Hundred Ninty Nine & Paise Sixty Six Only                   | Cum  | 8090.82  |
| 35 | 30.00<br>Sqmt | Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pnumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidlines of IRC : SP 63-2018 etc. Complete. | 705.12  | Rupees Seven Hundred Five & Paise Twelve Only                          | Sqmt | 21153.60 |



|    |              |   |        |   |     |         |
|----|--------------|---|--------|---|-----|---------|
| 36 | 15.00<br>Nos | Carying Out Core Cutting in R.C.C. Structure / Brick Wall by Core Cutting Drilling Machine as per instruction of Engineer-in-Charge. The Dia of Core Cutting shall be 4" to 5" and shall be decided based on Site Condition. The rate shall include all lead and lift and unserviceable material shall be disposed off from site. | 555.50 | Rupees Five Hundred Fifty Five & Paise Fifty Only | Nos | 8332.50 |
|----|--------------|---|--------|---|-----|---------|

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**Total Rs. 2929886.93**

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I/we am / are willing to carry out the work at \_\_\_\_\_ % above / below the estimated rates (percentage should be written in words and figures \_\_\_\_\_ % above / below) the estimated rates as mentioned above. Amount of My / Our tender works out as under

**1) Estimated amount put to Tender : Rs. 29,29,886.93**

2) Deduct \_\_\_\_\_ % below Rs. \_\_\_\_\_.

3) Net Amount of Tender Rs. \_\_\_\_\_.

4) In words Rs. \_\_\_\_\_.

1) Estimated amount put to Tender : **Rs. 29,29,886.93**

2) Add \_\_\_\_\_ % Above Rs. \_\_\_\_\_.

3) Total Amount of Tender Rs. \_\_\_\_\_.

4) In words Rs. \_\_\_\_\_.

:

\* (Please strike out whichever is not applicable)

**Deputy Executive Engineer  
Gondal (R&B) Sub Division  
Gondal**

**Executive Engineer  
Dist. (R&B) Division  
Rajkot**

Notes

- 1) All the work shall be carried out as per Public works deptt. Hand book, and other I.S. specifications and other specifications of the Division or as directed.
- 2) All the columns in schedule should be filled in Ink and total of the entries in the last column should be struck by the contractor under his signature.

- 3) Rates quoted includes clearance of site (prior to commencement of work and at its closer) in all respects and hold good for work under all conditions, site, moisture weather etc.
- 4) The contractor shall exhibit the details of work, tender amount and specifications as per Govt. Circular No. ED/6/32772/N Dated 26.04.78 and as per G.R. No. TNC/9/24/C Dt. 18.11.91 as directed by the Engineer-in-charge of the work, on board at site of work which contractor is not entitle for any extra payment.
- 5) Testing of materials be as per statement attached with the specifications, The materials shall be tested in G.E.R.I. bill for testing shall be paid by the Deptt. And 1 % (One percent) of amount put to tender after deducting the cost of materials as per Schedule - A shall be deducted from the running account bills of the work (as per G.R. (R & B) Deptt No. TNC/1085/4/C Dt. 10.05.85)
- 6) One percent of value of work for this work, shall be recovered form the contract payments as “LABOUR CESS” in terms of the Gujarat Government Gazette – Extra Ordinary – Dated 12/12/2004 Implementation of Building and other construction works (Regulation of employment and condition of Service Act, 1996)
- 7) As the work is to be carried out in all Govt. Non-Resi and Resi as such all the furniture and other under shallbe shifted by the contractor at his own cost and on completion of work same shall be put to its original place for which on Extra payment shall be made.
- 8) RCC item where there is changing of grade mix or change as per actual mix design the different of cement consumption shall be deducted from the rate of original item of the rate of star rate maintanaced in the tender.
- 9) All the Work shall be carried out as per Detailed Drawing & Specification Received from Office of Chief Architect & Town Planner, Gandhinagar which is attached herewith.
- 10) All the work shall be careried out as per latest IS code & codal provision for fire fighting system Installation. Necessary videogsaphy shall be done during ork & testing for leakage shall be carried out after completion of work.
- 11) After completion of work the agency has to apply for fire safety certificate to competent autaority. Necessary documents shall be supplied by office. After obtaining fire safety certificate, the work shall be treated complate no extra payment shall be made for this.

**Deputy Executive Engineer  
Gondal (R&B) Sub Division  
Gondal**

**Executive Engineer  
Dist. (R&B) Division  
Rajkot**

Name of work:- SR to Providing Fire Fighetening System at Taluka Seva Sadan, Vinchhiya, Di : Rajkot Job No. Dist / Raj / S.R. / N.R. / 2025 - 2026 /03

Statement of laboratory test to be carried out during execution of work as per Govt. in (R&B) Dept. Sachivalaya Gandhinagar No. S.R.R./1083/Q.C./5415/DT.20-2-1993.

### MATERIAL TEST SCHEDULE

| Tender item | Description of item in brief | Material to be tested | Test Qty | Name of laboratory Test   | Frequency  | Total no. of Test                          | Remark                      |
|-------------|------------------------------|-----------------------|----------|---|--|--|-----------------------------|
| --          | Cement                       | Cement                | 1.800 MT | a) setting time<br>b) Compressive strength<br>c) Consistency  | Upto 50 MT – 1 test<br>50 to 100 MT – 2 test<br>101 to 200 MT – 3 test<br>201 to 300 MT – 4 test<br>301 to 500 MT – 5 test<br>501 to 800 MT – 6 test | As per frequency<br>6 + 1 test<br>= 7 test | As per receipt of materials |
|             | Sand                         | All cement work Sand  | Cum      | 1. Fineness modules<br>2. Silt content<br>3. specified gravity<br>4. Water absorption<br>5. Soundness | 1/150 M <sup>3</sup> for concrete for as per specification   | As per frequency<br>12.00                  | --                          |

| Tender item      | Description of item in brief      | Material to be tested | Test Qty                                | Name of laboratory Test                               | Frequency                              | Total no. of Test            | Remark |
|------------------|-----------------------------------|-----------------------|---|---|--|------------------------------|--------|
| All cement items | Water in all cement item          | Water                 | --                                      | a) Salinity<br>b) Chemical analysis                   | One test for approval of sources       | As required while execution  |        |
|                  | Paving Block M-300, 60mm thick    | Paving block          | Sqmt                                    | 1. Compressive strength<br>2. Dimension Test          | 1 Sample / 500 Sqmt                    | As per frequency 7.00        |        |
|                  | Murum                             | Murum                 | Cum                                     | (1) Atterburgs Limit<br>(2) P.I. Valve                | 1 test per 50 Cum or Change of quarry. | As required                  |        |
|                  | Crushed metal 40 mm 10mm to 20 mm | Crushed metal         | As per requirement during execution Cum | 1. Gradation<br>2. Frankness index<br>3. Impact value | 1 Sample / 150 Cum                     | As per frequency 5<br>2<br>1 |        |

Note : The above material shall be supplied by the Contractor at his own cost to the Government Laboratory (G. E.R.I.) as per Schedule mentioned above directed by the Engineer-in-charge 1.00% (One percent) of the estimated cost after deducting the controlled material as per "Schedule "A" of this agreement shall be deducted from the bills of the contractor as per Government Instruction all testing charges shall be paid by the Department.

Deputy Executive Engineer  
(R & B) Sub Division  
Gondal

Executive Engineer  
District (R&B) Division  
Rajkot