

**NOT TO BE ISSUED TO
CONTRACTOR**

INFORMATION IN RESPECT OF DRAFT TENDER PAPERS

1. Name of work : **Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.**
2. Amount of administrative approval with authority. :
3. Amount of Technical Sanction with authority :
4. Sanction cost of the work put to tender : **Rs. 1,61,18,344.05/-**
5. The Time Limit provided for completion of work (the basis for fixing time limit be given). : **6 (Six) Months including monsoon**
6. Details of materials provided in Schedule-“A” of the tender (calculation sheet should be attached, item wise). : --
7. Date of issuing and receipt of tenders : --
8. Budget provision :
9. Whether the work put to tender is whole as sanctioned or only a part of it. : **Whole work**
10. If work is splitted-up, details to split-up with authority approving split-up. : --
11. In case it has a part of the remaining work, the reasons as to why it is not whole of the remaining work and the progress of completing the balance work. : **Not Applicable**

12. The amount and details of items not included in the tender with reasons thereof and now you proposed to execute the work with complete financial pictures : Not Applicable.
- (A) Item Nos. : --
- (B) Total Amount : --
13. In case the work be the same abandoned by the previous agency, the actions taken against the defaulting agencies. : No
14. If there by variation in items and quantities if any from these, the sanctioned estimates (these includes extra item). (Sub selected items). : No
15. Certificates of Overseer/ Supervisor/Junior Engineer for proper drafting of specifications and proper portion of BOQ including arithmetical checks (Details of Sub Estimate-wise quantity should be attached). : Attached herewith.
16. Certificate of Tender Clerk for arithmetically checked of BOQ. : Yes
17. Whether all correction slips in the printed forms are pasted at appropriate places in the printed orders. : No
18. What is validity period and whether it is as per Govt. orders? : --
19. Whether any alternative item provided? If yes, the basis for : -

accepting rates of alternative items be shown.

20. Whether L.A. proceedings have : Not Applicable.
been completed and possession is received? If partly received, the area of the total land and land received by should also be shown showing % thereof.
21. If work is to be executed after : Not Applicable.
dismantling the existing structure, whether permission of competent authority for dismantling is obtained? The action taken for dismantling should also be reported in brief.
22. Estimated credit of materials : Not Applicable
obtained from dismantling ?
23. D.T.P. prepared by :

D.T.P. FOR APPROVAL

Deputy Executive Engineer
R & B Sub Division (Panchayat)
Mandvi

Executive Engineer
R & B Division (Panchayat)
Kachchh

- : P R O F O R M A :-

(To be accompanied with submission of D.T.P.)

(1) TENDER FORM

- | | | | |
|----|--|----|-----|
| 1. | Whether the all clauses are enclose as per Government replaced by the latest ? | :- | Yes |
| 2. | If so, state the number-wise details instructions | :- | Yes |
| 3. | Whether time limit is entered, it is proportion with the amount and nature of work | :- | Yes |
| 4. | Whether the correct name of work as per sanctioned estimate is entered? | :- | Yes |
| 5. | Whether the other details viz. mention deposit etc. are written in the tender form ? | :- | Yes |

(2) SCHEDULE - A

- | | | | |
|----|--|----|----------------|
| 1. | Whether Schedule gives details of the materials to be supplied by the Department ? | :- | Not Applicable |
| 2. | Does it mention the correct place of delivery of materials to be supplied under Schedule-A | :- | Not Applicable |
| 3. | Whether the rates of materials are mentioned in figures ? | :- | Not Applicable |
| 4. | Whether the rates of entered in Schedule-A is correctly derived ? | :- | Not Applicable |

- | | | | |
|----|---|----|----------------|
| 5. | Whether quantity of materials is correctly arrived as per forms ? | :- | Not Applicable |
|----|---|----|----------------|

(3) BOQ

- | | | | |
|----|--|----|-----|
| 1. | Whether the description of each item literally tally with the sanctioned estimate except specifying of lead, lift etc. | :- | Yes |
| 2. | Whether quantity of each item is as per sanctioned estimate, if not state the reasons with due justification for deviation D.T.Ps. | :- | Yes |
| 3. | Whether the rate for each item is as per sanctioned estimate ? if not, state the reasons with the justification for deviation in covering letter of the D.T.P. and incorporate the rate analysis in the D.T.P. ? | :- | Yes |
| 4. | Whether the rates of each item in BOQ is mentioned in words in case of Item Rate Tender ? | :- | Yes |
| 5. | Whether the unit of each item is as per sanctioned estimate ? If not, state the reasons with the justification for deviation in covering letter of the D.T.P. ? | :- | Yes |
| 6. | Whether the standard method is adopted in each items in writing the observed as Cum. and not C.M. etc. complete. | :- | Yes |

- | | | | |
|-----|--|----|-----|
| 7. | Whether the Government remarks, if any, observed at the time of according sanction are fully incorporated in the D.T.P. ? If so, submit the compliance report. | :- | Yes |
| 8. | Whether correct name of work is entered at the top of BOQ? | :- | Yes |
| 9. | Whether the standard form for BOQ is adopted ? | :- | Yes |
| 10. | Whether the standards words for discount or premium on tendered rate as I / We, am / are is mentioned at the end ? | :- | Yes |
| 11. | Whether the amount worked out for each item is correctly calculated and summed up ? | :- | Yes |
| 12. | Whether alternative items are proposed in the D.T.Ps. ? If so, state the Item No. for proposed with reasons. | :- | No |

(4) DETAILED SPECIFICATIONS

- | | | | |
|----|---|----|-----|
| 1. | Whether the detailed specification correctly reflect the tender items ? | :- | Yes |
| 2. | Whether the item with specification lead and lift are covered in to with all lead and lifts ? | :- | Yes |
| 3. | Whether the correct mode of payments is as mentioned ? | :- | Yes |
| 4. | Whether the correct mode of payment is as per BOQ. | :- | Yes |

- | | | | |
|-----|--|----|----------------|
| 5. | Whether suitable use of excavated materials of cutting stuff is incorporated in the D.T.P. ? | :- | Yes |
| 6. | Whether the mention, regarding the route to be carried out before execution is made in the D.T.P. ? | :- | Yes |
| 7. | If so, state the Item No. with description and test to be carried out in brief ? | :- | Yes |
| 8. | Whether the mention, regarding the tests to be carried during execution is made, state the Item No. with description and details of test to be carried out in brief. | :- | Yes |
| 9. | Whether reference to P.W.D. Hand Book, I.S. Specification or I.R.C. Clauses are mentioned correctly and relevantly in the respectively item ? | :- | Yes |
| 10. | Whether average rate of Earth work is divided and entered in BOQ? If so, give Rate Analysis. | :- | Not Applicable |
| 11. | Whether the specification or alternative item, if any is incorporated ? | :- | Not Applicable |
| 12. | Whether the description of each item literally and exactly tally with that in BOQ? | :- | Yes |

(5) GENERAL

- | | | | |
|----|--|----|--------------------------|
| 1. | Whether statement of Item Not put to tender is incorporated with details ? | :- | Yes |
| 2. | Whether the amount of sanctioned estimate tally with the total amount put to tender, amount of items not put to tender ? | :- | Yes |
| 3. | Whether Page numbering in D.T.P. is made ? | :- | Yes |
| 4. | Whether permission to split up to work, if any is sought from the competent authority ? | :- | Question does not arise. |
| 5. | Whether the general specification and other relevant records are incorporated in the D.T.P. ? | :- | Yes |
| 6. | Whether Executive Engineer has signed the D.T.P. and all corrections are fully attested by him ? | :- | Yes |
| 7. | Whether the D.T.P. are submitted in well bound volume and in tidy fashion ? | :- | Yes |

Deputy Executive Engineer
R & B Sub Division (Panchayat)
Mandvi

Executive Engineer
R & B Division (Panchayat)
Kachchh

**Name of work :- Construction of Slab Drain at Chainage
8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta.
Mandavi, Dist. Kachchh.**

CERTIFICATE TO BE GIVEN FOR “D.T.Ps.”

CERTIFICATE

Certified that description of items written in BOQ and specifications is verified by me. Specifications are in accordance with the item of work. Quantity of materials provided in Schedule-“A” is verified by me and is alright.

A.E./A.A.E./O.S.

CERTIFICATE TO BE GIVEN FOR ARITHMETICAL CHECKINGS

CERTIFICATES

- (1) Certified that the corrections made in the printed form time to time are verified and incorporated.
- (2) Certified that the Quantity, Unit, Rate and Amount in BOQ are arithmetically checked.

TENDER CLERK

DIVISIONAL ACCOUNTANT

**Name of work :- Construction of Slab Drain at Chainage
8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta.
Mandavi, Dist. Kachchh.**

CERTIFICATE
(To be issued by Executive Engineer)

I have personally examined the Draft Tender Papers and I have personally verified all the above points and found to be in order. Further I have satisfied myself with the fact that there is no ambiguity or discrepancy in the D.T.P. submitted herewith which may lead to financial or contractual implications.

DRAFT TENDER PAPERS

Dy. Executive Engineer
R & B Sub Division (Panchayat)
Mandvi

DRAFT TENDER PAPERS

Executive Engineer
R & B Division (Panchayat)
Kachchh

Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.

SCHEDULE OF MATERIALS

Item No.	Particulars	Qty	Unit	Remarks
1	2	3	4	5
1	Bulk Asphalt VG-30 grade	3.61	M.T.	Contractor has to brought the bitumen from the Koyali Refinery at his own cost.
2	VG-30 TACK COAT	0.34	M.T.	Contractor has to brought the emulsion from the Refinery at his own cost.
3	Cement	373.00	M.T.	Contractor has to brought the cement from the open market at his own cost.
4	T.M.T. Fe-550D	86.90	M.T.	Contractor has to brought the T.M.T. bar from the open market at his own cost.

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ASPHALT CONSUMPTION STATEMENT

Sr. No.	Item No.	Item	Qty	Unit	Asphalt VG-30	Tack Coat (VG-30)
1	41	Providing and laying bituminous grout base course 37.5mm thick using Emulsion for tackcoat at the rate of 4.00 kg/10 sqmt on WBM surface using B.T. Stone aggregate as per required gradation with the asphalt of VG-30 grade at the rate of 1.99% i.e. 19.90 Kg/M.T. by weight by mix including heating and mixing in drum mix plant, transporting the mix spreading the same by paver finisher and consolidation by vibratory roller including cost of all materials, fuels, labours, tools and plants etc. using contractors own drum mix plant etc complete.	34.00	MT	19.9 Kg/M.T. $= 676.6 \text{ Kg}$ $\text{i.e. } 0.677 \text{ M.T.}$	$\frac{4.00 \text{ Kg./} 10 \text{ Sq.m.}}{4.00 \times 385.82}$ $= 0.0104 \text{ M.T.}$ $1 \text{ M.T. will cover area}$ $34 / 2.35 \times 0.0375$ $= 385.82 \text{ SqM}$
2	42	Providing and laying 37.5 mm thick compacted bituminous macadam with B.T. Aggregate as per M.O.R.T & H Gradation and Asphalt VG-30 @ 4 Kg/10 Sq Mt and 2.50 Kg/10 sq Mt on existing B.T. Surface for tack coat & Asphalt grade VG-30 for mixing @ 34.00 Kg/M.T. ie 3.40% of total mix weight of the including heating the aggregates and Aphal by continues baching of drum mix plant and spreading the same by paver finisher and consolidation withvibratory roller 80 KN to 100 KN Static weight including providing all materials, Equipments, tools and plants, oil, kerosene, firewood, laboar charges etc. comp. using contractor's own machineries drum mix plant and paver finisher etc complete.	66.00	MT	3.40% 66.00×3.40 $= 2.250 \text{ M.T.}$	$\frac{2.50 \text{ Kg./} 10 \text{ Sq.m.}}{2.50 \times 748.94}$ $= 0.0013 \text{ M.T.}$ $1 \text{ M.T. will cover area}$ $66 / 2.35 \times 0.0375$ $= 748.94 \text{ SqM}$
3	43	Providing and laying Bituminous Seal Coat with stone chips 6 to 10 mm size 0.18 Cum/10sqmt i.e. using 0.66 cmt Agg per M.T. mix using Asphalt VG-30 @ of 4.50% of mix including heating the asphalt and aggregate by continous batching drum mix plant and paver finisher and consolidating by vibratory roller including providing equipment, tools, plant, firewood, oil, kerosene, labour charge etc, using the contractors own machinery and plant.	15.00	MT	4.50% 15.00×4.50 $= 0.680 \text{ M.T.}$	----
			Total		3.61 M.T.	0.342 M.T.

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CEMENT CONSUMPTION STATEMENT

Qty	Unit	Item No.	Item of Work	Rate of cement	Per	Qty. of Cement in Kg.
1	2	3	4	5	6	7
101.00	Cum.	7	Providing and laying in situ M-15 grade bedding concrete in foundation / below pile cap including dewatering, shuttering, mixing in mechanised batch mix plant, compacting, curing etc. complete true to level and position as directed by Engineer and as per specification.	290.00	Cum.	29290.00
331.00	Cum.	8	Providing and laying in-situ RCC M-30 grade Controlled Cement Concrete in foundations of piers, abutments, return wall, pile caps etc. including centering, shuttering, mixing in mechanised batch mix plant, compaction, curing and dewatering if necessary, excluding reinforcement as per specification and as directed by Engineer.	410.00	Cum.	135710.00
148.00	Cum.	9	Providing and laying M-30 grade Controlled cement concrete for cast-in-situ piers, abutments, return wall, staircase, etc. at any height or depth as per approved design and drawings, with necessary centering, shuttering, mixing in mechanised batch mix plant, scaffolding, transporting, placing, compacting by mechanical vibrators, finishing, curing and casting, finishing with decorative panel as per drawing etc. complete excluding reinforcement as directed by Engineer and as per specification.	410.00	Cum.	60680.00
41.00	Cum	10	Providing and laying in situ controlled M-30 grade cement concrete for RCC caps over piers and abutments , staircase ,including necessary scaffolding formwork, centering, mixing in mechanised batch mix plant, transporting, placing, compacting by mechanical vibrators, finishing and curing and casting, finishing with decorative panel as per drawing etc. complete excluding reinforcement, as directed by Engineer and as per specification.	410.00	Cum	16810.00
0.50	Cum	11	Providing and laying in situ controlled M-40 grade cement concrete for RCC pedestals over piers and abutments ,staircase ,including necessary scaffolding formwork, centering, mixing in mechanised batch mix plant, transporting, placing, compacting by mechanical vibrators, finishing and curing and casting, finishing with decorative panel as per drawing etc. complete excluding reinforcement, as directed by Engineer and as per specification.	440.00	Cum	221.28
182.00	Cum.	18	Providing and laying, M-40 grade RCC in-situ or Pre-cast T-Beam Deck slab and Solid Slab type superstructure, deck sheet if required, as per approved drawing and technical specifications, section 1500, 1700 and 2200 of MORTH using 6mm to 20mm machine crushed well graded stone aggregate, sand of approved quality, OPC 53 grade cement with contractor's own concrete mix design etc. complete as per specifications. the rate is inclusive of all materials, Mineral admixtures if required, including necessary mixing in fully automatic batch mix plant, transport, curing, vibrating, ramming, finishing, placing in position, centering, shuttering, scaffolding, staging, formworks, establishing casting yard, transporting using trailer, launching or shifting using crane or any other approved means, making thrust bed, thrust block, gantry, etc all complete. Deshuttering carefully, making good the damages, fixing embedment, inserts, pockets, wherever necessary, with all lead and lift with contractor's labour, tools & plants, machineries, as required with including cost of finishing equivalent to F3 type exposed concrete and form mark. (Minimum cement content :- 440 kg/cum), (Excluding steel reinforcement) (A) For various types of RCC type superstructure in M40 grade	440.00	Cum.	80080.00

Qty	Unit	Item No.	Item of Work	Rate of cement	Per	Qty. of Cement in Kg.
1	2	3	4	5	6	7
23.68	Cum.	22	Providing and casting RCC Crash Barrier /RCC Crashbarrier with Friction slab / Central Verge /Medium in M-40 controlled concrete with cast-in-situ or precast members as per detailed drawings including necessary scaffolding, centering, formwork, mixing in mechanised batch mix plant, transporting, placing, compacting, finishing, curing, etc. complete including providing and fixing of inserts if any with all leads and lifts as per drawing & specification and as directed by Engineer, excluding reinforcement.	440.00	Cum.	10419.55
35.88	Cumt	24	Providing and casting insitu controlled cement concrete M-40 in Wearing Coat using 6 to 20 mm size coarse aggregates, to the required section at any height or depth including necessary shuttering, scaffolding, staging, etc. complete, placing in position, vibrating, curing, tamping, deshuttering filling in joints with bitumen with all contractor's materials (except steel reinforcement), labour, tools and plants, etc. as directed and as per drawings and specifications and special conditions of contract.	440.00	Cumt	15787.20
11.80	Cumt	25	Providing and laying precast RCC Footpath Slab in controlled cement concrete of M-30 grade (minimum 70 mm thickness) including necessary reinforcement and providing and setting cement chequered tiles in CM 1:5 as per drawing including necessary formwork, curing and finishing complete.	410.00	Cumt	4838.00
27.27	Cumt	26	Providing and casting insitu controlled cement concrete M-30 in RCC Approach Slab using 6 to 20 mm size coarse aggregates, to the required section at any height or depth including necessary shuttering, scaffolding, staging, etc. complete, placing in position, vibrating, curing, deshuttering, fixing inserts, pockets wherever necessary with all contractor's materials (except steel reinforcement), labour, tools and plants, etc. as directed and as per drawings and specifications and special conditions of contract.	410.00	Cumt	11180.70
11.70	Cumt	27	Providing and casting insitu controlled cement concrete M-25 in RCC Railing and Parapet using 6 to 20 mm size coarse aggregates, to the required section at any height or depth including necessary shuttering, staging, etc. complete, placing in position, vibrating, curing, deshuttering, fixing embedments, inserts, pockets wherever necessary with all contractor's materials (except steel reinforcement), labour, tools and plants, etc. as directed and as per drawings and specifications and special conditions of contract.	380.00	Cumt	4446.00
224.00	Nos	33	Providing & fixing in position 100 mm Dia. A.C. pipes as weep holes in Abutments and Return Walls completed in all respect as per specification and as directed by Engineer.	8.00	Nos	1792.00
11.00	Nos.	44	Supplying and fixing road sign board of MS Plates and angle iron including painting, lettering, etc. complete including excavation, etc. complete as per IRC type design - Reflective Type.	15.30	Nos.	168.30
		48	Supplying and fixing the necessary sign boards as per site requirements and as directed and approved by Engineer (Retro-reflective Type)			
		[A]	Facility informatory Sign:-			

Qty	Unit	Item No.	Item of Work	Rate of cement	Per	Qty. of Cement in Kg.
1	2	3	4	5	6	7
2.00	Nos		Facility Informatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 80 x 60 cms rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm /65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with best quality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. Awarranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	34.80	Nos	69.60
		[B]	Cautionary Warning Sign:			
2.00	Nos		out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with best quality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by Contractor. (A) Class - C Type - 11 Retro Reflective Sheeting	34.80	Nos	69.60
		[C]	Regulatory / Mandatory sign:			
2.00	Nos		Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 60 cms Dia Circle as per design of IRC-67- 2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with best quality epoxy coatings in black and white bends. The details of symbol for each board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	34.80	Nos	69.60
50.00	Nos.	51	Providing and fixing guard stone as per I.R.C. type design including white washing etc. complete.(ii) Fixing in C.C. 1:5:10	11.70	Nos.	585.00

Qty	Unit	Item No.	Item of Work	Rate of cement	Per	Qty. of Cement in Kg.	
1	2	3	4	5	6	7	
144.00	Rmt.	52	Supplying and fixing reinforced concrete heavy duty nonpressure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specifications including setting the pipes in C.M. 1:2 watering and laying (to level or slopes) of class NP3 of following internal daimeters.(vii) 1200mm dia.	5.10	Rmt.	734.40	
				Total		372951.23	Kg.
				i.e.		372.95	MT
				Say		373.00	MT

Deputy Executive Engineer
R & B Sub Division (Panchayat)
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Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.

Fe-550D T.M.T. BAR CONSUMPTION STATEMENT

Item No.	Item of Work	Total Qty	Unit
1	2	3	4
12	Providing and placing in position High Yield Strength Deformed (HYSD) bars reinforcement (TMT Fe 550D grade) with fusion bonded epoxy coating conforming to IS 1786 of all categories for piers, abutments, returns and retaining wall including cutting, bending, hooking and tying with 18 gauge mild steel binding wires, supporting in position to ensure lines and levels during concreting, maintaining proper cover / spacing etc. complete as per specification and detailed drawing.	51.79	MT
19	Providing and placing in position High Yield Strength Deformed (HYSD) bars reinforcement (TMT Fe 550D grade) with fusion bonded epoxy coating conforming to IS 1786 of all categories for super structure including cutting, bending, hooking and tying with 18 gauge mild steel binding wires, supporting in position to ensure lines and levels during concreting, maintaining proper cover / spacing etc. complete as per specification and detailed drawing.	25.48	MT
28	Providing and placing in position High Yield Strength Deformed (HYSD) bars reinforcement (TMT Fe 550D grade) with fusion bonded epoxy coating conforming to IS 1786 of all categories for super structure including cutting, bending, hooking and tying with 18 gauge mild steel binding wires, supporting in position to ensure lines and levels during concreting, maintaining proper cover / spacing etc. complete as per specification and detailed drawing.	9.55	MT
	Total	86.82	MT
	Say	86.90	M.T.

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**Name of Work :- Construction of Slab Drain at Chainage 8/500
on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist.
Kachchh.**

Statement of Total Cost of Cement, Steel, Asphalt & Emulsion

Item No.	Name of Material	Qty	Unit	Rate	Amount of material
1	2	3	4	5	6
1	Cement	373.00	MT	5234.00	1952282.00
2	T.M.T. Fe-550D	86.90	MT	66470.00	5776243.00
3	VG-30 TACK COAT	0.34	MT	42660.00	14571.38
4	Bulk Asphalt VG-30 grade	3.61	MT	42660.00	154002.60
	Total Rs.				7897098.98

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Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.

Statement showing Total Cost of work without Cement, Steel, Asphalt & Emulsion

Item No.	Name of Material	Amount	% of material	Amount of material
1	2	3	4	5
1	Barricades	8654.69	70	6058.28
2	Tar Paper	800.29	90	720.26
3	Zinc rich epoxy primer and coat tar epoxy paint	342060.82	70	239442.57
4	Mild steel dowel bar	17064.46	90	15358.01
5	M-400 Deck Slab Superstructure	1040053.56	90	936048.20
6	Epoxy Phenolic primer of DFT 50	411478.04	90	370330.24
7	RCC crash barrier	123893.21	75	92919.91
8	W metal beam Crash barrier - ACM	399992.32	90	359993.09
9	RCC Footpath Slab Chequered tiles	66085.31	80	52868.25
10	Enamel Paint Anti Crash barrier	23811.62	90	21430.46
11	Painting On New Steel	22833.44	70	15983.41
12	G.I. waterspouts	6432.33	80	5145.86
13	UPVC Pipe below footpath	17410.38	90	15669.34
14	Earthwork Embankment OMC	33031.04	70	23121.73
15	road sign board	33802.84	90	30422.56
16	Road Marking with hot thermoplastic paint	27579.06	80	22063.25
17	DWC pipe	7175.04	0	0.00
18	Cat eye - Raised Pavement marker	14027.89	90	12625.10
19	Facility Informatory Sign board etc	11812.96	70	8269.07

Item No.	Name of Material	Amount	% of material	Amount of material
1	2	3	4	5
20	Cautionary Signboard - ACP	10154.54	70	7108.18
21	Regulatory - Chevron signboard - ACP	9237.46	80	7389.97
22	Flexible Median marker	1086.76	90	978.08
23	NJ Reflector	816.08	90	734.47
24	48F. Solar blinkers	31360.50	90	28224.45
25	Uni-Axial Bi-axial extruded high modulus geogrid	23069.41	70	16148.59
26	Guard Stone - 1.5.10	17540.17	80	14032.14
27	NP3 of following internal diameters (vii)1200mm dia.	800641.38	80	640513.10
28	Pitching Slope	5257.05	90	4731.35
	Total Rs.			2272904.745

Deputy Executive Engineer
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Mandvi

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R & B Division (Panchayat)
Kachchh

**Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road.
Ta. Mandavi, Dist. Kachchh.**

STATEMENT SHOWING OF COST OF MATERIALS

Sr. No.	Tender It. No.	Item in Brief	Qty	Per	Fine Sand CuM	Coarse Sand CuM	Total Sand Qty CuM	Natural Gravel	BT Chips 10 to 20 mm size Cumt.	Total of BT Chips 10 to 20 mm size
1	2	3	4	5	6	7	8		9	10
1	7	controlled C.C. M-15	101.00	CuM	44.44	-	44.44	-	88.88	88.88
2	27	controlled C.C. M-25	39.00	Rmt	16.38	-	16.38	-	32.76	32.76
3	8, 9, 10, 26	controlled C.C. M-30	547.27	CuM	218.91	-	218.91	-	437.82	437.82
4	11, 24	controlled C.C. M-40	36.38	CuM	13.83	-	13.83	-	27.65	27.65
5	15	Filling Sand	849.00	Cum	849.00	-	849.00	-	0.00	0.00
6	16	Filter Media	276.00	SqM	99.36	66.24	165.60	-	138.00	138.00
7	37	Gravel and Sand	56.00	CuM	22.40	-	22.40	33.60	28.00	28.00
8	52	NP3 - 1200mm dia.	144.00	Rmt	1.54	-	1.54	-	0.00	0.00
		Total Qty			1265.85	66.24	1332.09	33.60		753.11
		Rate			267.83	293.27		136.50		493.76
		Say			339033.55	19426.20		4586.40		371854.12

Total Amount Rs. 734900.27

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Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.

STATEMENT SHOWING OF COST OF MATERIALS

Sr. No.	Name of Material	Unit	GSB-I		WBM-45 TO 90 mm		WBM-45 to 63mm		BSG 37.5mm		37.5mm B.M.		Seal Coat		Quarry spall, Sand & Other materials		Total Required Qty	Material Rate	Total cost of Req. Qty
			Qty	Required Qty	Qty	Required Qty	Qty	Required Qty	Qty	Required Qty	Qty	Required Qty	Qty	Required Qty	Qty	Required Qty			
1	2	3	4	5	6	7	8	9	10	11	12	13			14	15	16	17	18
1	B.T. Metal 53.00mm to 26.5mm	Cum	152.00	53.20											-	-	53.20	476.84	25367.89
2	B.T. Metal 26.5 mm to 4.75mm	Cum	152.00	68.40											-	-	68.40	475.50	32524.20
3	Metal 22.4 mm to 2.36 mm	Cum													-	-	0.00		0.00
4	Metal below 2.36 mm	Cum	152.00	30.40											-	-	30.40	157.11	4776.14
5	B.T. Kapachi 19 to 13.2mm	Cum									66.00	14.81			-	-	14.81	541.96	8026.64
6	B.T. Kapachi 13.2 to 4.75mm	Cum													-	-	0.00		0.00
7	B.T. Metal 45 mm to 90 mm	Cum			102.00	124.11									-	-	124.11	258.86	32128.05
8	B.T. Metal 45 mm to 63mm	Cum					129.00	156.97							-	-	156.97	303.74	47677.22
9	B.T. aggregate 26.5 to 37.5 mm	Cum							34.00	16.83							16.83	496.06	8348.69
10	B.T. Kapachi 19.6mm to 26.5mm	Cum									66.00	13.07					13.07	514.81	6727.54
11	B.T. Kapchi 10mm to 20mm	Cum							34.00	3.37	66.00	9.15					12.51	525.89	6580.78
12	Grit	Cum							34.00	2.24			15.00	6.93	-	-	9.17	408.31	3745.84
13	Water	KL													-	-	0.00		0.00
14	B.T. Stone Aggregate	M.T.													-	-	0.00		0.00
15	B.T. Aggregate 13.2 mm	Cum			102.00	27.05	129.00	34.21							-	-	61.26	493.76	30248.33
16	Stone dust	Cum			102.00	7.96	129.00	10.06			66.00	6.53	15.00	2.97	-	-	27.52	157.11	4323.98
17	Sand	Cum													56.00	16.80	16.80	267.83	4499.54
18	Natura Gravel (river bed)	Cum													56.00	39.20	39.20	136.50	5350.80
19	Quarry spalls	Cum													-	-	0.00		0.00
	Total																	220325.64	

Deputy Executive Engineer
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Kachchh

Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.

COST OF FUEL

1. Carriage of sand :-

Qty	=	1348.89	Cumt.	
No. of trip =	1348.89 / 12	=	112.00	Trip
Lead =	15 Kms.			
Total K.m. =	112.00 x 15	=	1680.00	Km.
Now Diesel required	1680.00 / 4	=	420.00	Lit.
Amount of Diesel =	420.00 x 92.00			= 38640.00
Add 10% Oil charges				= 3864.00
	Total			= 42504.00(1)

2. Carriage of Road Materials

1	B.T. Metal 53.00mm to 26.5mm	=	53.20	Cum
2	B.T. Metal 26.5 mm to 4.75mm	=	68.40	Cum
3	Metal 22.4 mm to 2.36 mm	=	0.00	Cum
4	Metal below 2.36 mm	=	30.40	Cum
5	B.T. Kapachi 19 to 13.2mm	=	14.81	Cum
6	B.T. Kapachi 13.2 to 4.75mm	=	0.00	Cum
7	B.T. Metal 45 mm to 90 mm	=	124.11	Cum
8	B.T. Metal 45 mm to 63mm	=	156.97	Cum
9	B.T. aggregate 26.5 to 37.5 mm	=	16.83	Cum
10	B.T. Kapachi 19.6mm to 26.5mm	=	13.07	Cum
11	B.T. Kapchi 10mm to 20mm	=	12.51	Cum
12	Grit	=	9.17	Cum
13	Water	=	0.00	KL
14	B.T. Stone Aggregate	=	0.00	M.T.
15	B.T. Aggregate 13.2 mm	=	61.26	Cum
16	Stone dust	=	27.52	Cum
17	Sand	=	16.80	Cum
18	Natura Gravel (river bed)	=	39.20	Cum
19	Quarry spalls	=	0.00	Cum
	Total	=	644.26	Cum

Nos. of Trip =	644.26 / 12	=	54.00	Trip
Lead =	23 Km.			
Total Km. =	54.00 x 23	=	1242.00	Km.
Diesel required =	1242.00 / 4	=	310.50	Litre
Amount of diesel =	310.50 x 92.00			= 28566.00
Add 10% Oil charges				= 2856.60
	Total			= 31422.60(2)

3. Carriage of Bulk Asphalt & Emulsion

A	Bulk Asphalt VG-30 grade	=	3.95	M.T.
	Total	=	3.95	M.T.

Nos. of Trip =	3.95 / 20	=	1.00	Trip
Lead =	511 Kms.			
Total Km. =	1.00 x 511	=	511.00	Km.
Diesel required =	511.00 / 4	=	127.75	Litre
Amount of diesel =	127.75 x 92.00			= 11753.00
Add 10% Oil charges				= 1175.30
	Total			= 12928.30(3)

4. Consolidation

a	GSB-I =	152.00	Cum	
	Area =	152.00 / 0.100	=	1520.00 Sq.mt.
b	WBM (45 to 90mm)	102.00	Cum	
	Area =	102.00 / 0.125	=	816.00 Sq.mt.
c	WBM (45 to 63mm)	129.00	Cum	
	Area =	129.00 / 0.250	=	516.00 Sq.mt.
d	Quarry spall =	0.00	Cum	
	Area =	0.00 / 0.110	=	0.00 Sq.mt.
e	Prime coat		=	0.00 Sq.mt.
g	BSG 37.5	34.00 M.T.		
	Area =	34.00 / (0.095 x 2.30)	=	155.61 Sq.mt.
h	BM =	66.00 M.T.		
	Area =	66.00 / (0.040 x 2.40)	=	687.50 Sq.mt.

Total Consolidation (a) to (h) = 3695.11 Sq.mt.

For consolidation of 1460 Sq.mt. - 20 Lit. diesel required

$$\text{Diesel required} = \frac{3695.11}{1460.00} \times \frac{20}{1} = 50.61 \text{ Lit.}$$

$$\text{Now Cost of Diesel} = 50.61 \times 91.00 = 4605.51 \text{(4)}$$

5. Drum Mix Plant Operation

Total mix Material

BGBC + BM + Seal Coat

$$34.00 + 66.00 + 66.00 = 166.00 \text{ M.T.}$$

Considering L.D.O. required for M.T. 2.40 lit.

$$= 166.00 \times 2.40$$

$$= 398.40 \text{ Lit.}$$

$$\text{Say} = 398.00 \text{ Lit.}$$

$$\text{Cost of L.D.O.} = 398.00 \times 65.00$$

$$= 25870.00$$

Add 10% Oil charges

$$= \frac{25870.00}{1}$$

$$= 28457.00 \text{(5)}$$

Grand Total (1) to (5) = 119917.41

Deputy Executive Engineer
R & B Sub Division (Panchayat)
Mandvi

Executive Engineer
R & B Division (Panchayat)
Kachchh

Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.

Fixation of P.O.L., Material, Labour Components & Other Components

I. Amount put to tender	= Rs. 16118344.05	I
II. Statement - B1 (Total Cost of Cement, Asphalt & Steel)	= 7284453.98	II
III Total Cost of Work without Cement, Asphalt & Steel	= 8221245.07	III
IV Cost of materials other than Asphalt, Cement & Steel	= 2272904.74	
A. Cost of Materials = Rs.	734900.27	
B. Cost of Materials = Rs.	= 220325.64	
Total	= 3228130.65	IV
V Cost of Fuel	= 119917.41	V
VI Cost of Labour (III - IV - V)	= 4873197.01	
Cost of Labour Component (VI)	= 65%	= 3167578.06 VI
VII Cost of Plants & Machinery (III - IV - V)	= 4873197.01	
Cost of Plants & Machinery Component (VII)	= 35%	= 1705618.95 VII

(A) Percentage of Labour (Pi)

= Cost of Labour = Rs. 3167578.06

$$\frac{3167578.06}{16118344.05} \times \frac{100}{100} = 19.652 \% \text{ Say } = \mathbf{19.65 \%}$$

(B) Percentage of Cement (Pc)

= Cost of Cement = Rs. 1952282.00

$$\frac{1952282.00}{16118344.05} \times \frac{100}{100} = 12.112 \% \text{ Say } = \mathbf{12.11 \%}$$

(C) Percentage of Steel (Ps)

= Cost of Steel = Rs. 5776243.00

$$\frac{5776243.00}{16118344.05} \times \frac{100}{100} = 35.836 \% \text{ Say } = \mathbf{35.84 \%}$$

(D) Percentage of Bitumen (Pb)

= Cost of Bitumen = Rs. 168573.98

$$\frac{168573.98}{16118344.05} \times 100 = 1.046 \quad \% \text{ Say } = \mathbf{1.05} \quad \%$$

(E) Percentage of P.O.L. (Pf)

Cost of P.O.L. = Rs. 119917.41

$$\frac{119917.41}{16118344.05} \times 100 = 0.744 \quad \% \text{ Say } = \mathbf{0.74} \quad \%$$

(F) Percentage of Plant & Machinery Spares (Pp)

Cost of Plant & Machinery Spares = Rs. 1705618.95

$$\frac{1705618.95}{16118344.05} \times 100 = 10.582 \quad \% \text{ Say } = \mathbf{10.58} \quad \%$$

(G) Percentage of Materials (Pm)

Cost of Materials = Rs. 3228060.30

$$\frac{3228060.30}{16118344.05} \times 100 = 20.027 \quad \% \text{ Say } = \mathbf{20.03} \quad \%$$

$$\mathbf{\underline{\text{Total} = 100.00 \quad \%}}$$

Sr. Divisional Account Officer
R & B Division (Panchayat)
Kachchh

Deputy Executive Engineer
R & B Sub Division (Panchayat)
Mandvi

Executive Engineer
R & B Division (Panchayat)
Kachchh

Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.

FINANCIAL PICTURE

(A) Amount of Technical Sanction	Rs.	19845000.00(A)
(B) Amount put to Tender	Rs.	16118344.05(B)
Credit for Dismantale Material (As per T.S.)	Rs.	0.00(E)
(C) Items Not included in Tender			
(i) Add 18 % provision for GST [18%]	Rs.	2901301.93	
(ii) Add Contigencies & Proof Checking [LS]	Rs.	241600.00	
(iii) Add 1% for Quality Control [1 %]	Rs.	161183.44	
(iv) Add 2 % For Third Party Inspection Charge [2.0%]	Rs.	322366.88	
(v) Inauguration charges	Rs.	100000.00	
Total	Rs.	3726452.25(D)
Total of (B) + (D) - (E)	=	Rs.	19844796.30(F)
Difference = (F) - (A)			
Rounding error	=	203.70(G)
Total of (F) + (G)	=	19845000.00	= T.S. Amount

Dy. Executive Engineer
R & B Sub Division (Panchayat)
Mandvi

Executive Engineer
R & B Division (Panchayat)
Kachchh

Name of Work :- Construction of Slab Drain at Chainage 8/500 on Bayat-Ratadiya-Sherdi-Aasambiya Road. Ta. Mandavi, Dist. Kachchh.

RECAPITULATION SHEET

Sr. No.	Sub Esti. No.	Particulars	Amount	
[1]				
	Section-A	PRELIMINARY WORKS	Rs.	116618.63
	Section-B	FOUNDATION & SUBSTRUCTURE	Rs.	8769435.92
	Section-C	SUPERSTRUCTURE	Rs.	3547748.54
	Section-D	MISCELLANEOUS ITEMS	Rs.	1837428.46
	Section-E	APPROACHES AND AMENITIES	Rs.	1847112.50
		Total..	Rs.	16118344.05
[2]		Amount Put to Tender :	Rs.	16118344.05
[3]		Credit for Dismantale Material (As per T.S.)		0.00
[4]		Net Total..	Rs.	16118344.05
[5]		Add 18 % provision for GST [18%]		2901301.93
[6]		Total with GST Provision [4+5]	Rs.	19019645.98
[7]		Add Contigencies & Proof Checking [LS]	Rs.	241600.00
[8]		Add 1% for Quality Control [1 %]	Rs.	161183.44
[9]		Add 2 % For Third Party Inspection Charge [2.0%]	Rs.	322366.88
[10]		Inauguration charges		100000.00
Grand Total [6] to [10]			Rs.	19844796.30
Say			Rs.	19845000.00

Deputy Executive Engineer
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**ADMINISTRATIVE APPROVAL
&
TECHNICAL SANCTION**