

Name of Work :- (Package No. 11) Resurfacing & Strengthening of Various Roads of Taluka Nakhatrana District Bhuj-Kachchh under MMGSY Program-2025-2026 (Normal) (Total 2 Roads, Length 3.20 Km.)

SPECIFICATION INDEX

| It. No. | Description of Item | Applicable Separate Road Specification attached reference |
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| 1 | Clearing and grubbing road land including uprooting wild vegetation grass bushes, shrubs, sapling and trees of girth up to 300mm removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials as per Clause-201 (area of light density) by mechanical means in area of light jungle. | As per seperate sheet attached. |
| 2 | Earthwork in cutting including preparing the slope and camber and stacking or utilizing the cutting stuff in spoil bank as directed upto 200 meters from the end of cutting with all lead and lift. (A) Hard murrum. | As per seperate sheet attached. |
| 3 | Earth work for embankment including breaking clods, dressing with all lead and lift (Including watering and consolidation) (C) from borrow area within all lead and lift (with minimum 6% CBR) | As per seperate sheet attached. |
| 4 | Rolling and watering of earthwork in layers with power roller including filling in depressions which occur during the process. | As per seperate sheet attached. |
| 5 | Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed upto all lead and lift. | As per seperate sheet attached. |
| 6 | Construction of compacted granular sub base (Grade-I, Crushed B.T. materials of 53 mm to 26.5 mm @ 35%, 26.5 mm to 4.75 mm @ 45%, Below 2.36 mm @ 20%) by providing close graded material, mixing in a mechanical mix plant at OMC, carriage of a mix material to work site, spreading uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve desire density, complete clause as per 401. | As per seperate sheet attached. |
| 7 | Providing and laying W.B.M. of M.C. metal of size 45 mm to 63 mm size including 0.12 Cu.M. Stone screening & 0.08 Cu.M. stone dust as filler including spreading, watering & consolidation by vibratory roller 80KN to 100KN static weight. 75mm thick compacted. | As per seperate sheet attached. |
| 8 | Providing and laying compacted of specified murrum in side shoulder including carriage of material and spreading on prepared base including compacting as per MOST specification etc. complete. | As per seperate sheet attached. |
| 9 | Providing and laying bituminous grout 37.5mm compacted thick using B.T. stone aggregates as per required gradation with the asphalt VG-30 grade for tack coat 2.50 Kg/10 Smt on B.T. surface and 4.0 Kg/10 Smt on W.B.M. surface and asphalt VG-30 grade for mixing @ 1.99% i.e. 19.90 kg./ MT by weight of mix including heating and mixing in drum mix plant transporting the mix, spreading the same by pavers finisher and consolidation as per MORTH specification including cost of all materials fuels, labors, tools and plant etc. using contractors own drum mix plant etc. completed as directed. | As per seperate sheet attached. |

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| 10 | Providing and laying 37.50 mm thick compacted B.M. using stone chips 0.66 Cum/1 M. ton mix as per gradation with Asphalt VG-30 for tack coat @ 2.50 kg./10 Smt. on B.T. surface and asphalt grade VG-30 for mixing @ 34 kg/M.Ton (i.e. 3.40% of mix) including heating the and aggregate by continuous batching drum mix plant, transporting and mixed material and spreading the same by paver finisher and consolidation by vibratory roller of 80 KN to 100 Kn static weight including the cost of labour oil, lubricants etc. using contractors own machineries and plant. | As per seperate sheet attached. |
| 11 | Providing and laying bituminous seal coat with stone chips 6 to 10 mm size 0.18 Cmt/10 smt i.e. using 0.66 cmt aggregate per M.T mix using asphalt VG-30 @ of 4.50% of mix including heating the asphalt and aggregate by continuous batching drum mix plant and paver finisher and consolidating by vibratory roller including providing equipment, tools, plant, firewood, oil, kerosene, labour charges etc. using the contractors own machinery and plant. | As per seperate sheet attached. |
| 12 | Providing and filling in foundation with ordinary cement concrete M-100 mix and providing necessary vertical pin headers including formwork, vibrating, ramming and curing complete. | As per seperate sheet attached. |
| 13 | Providing and laying cement concrete grade M-20 for C.C. road and curing etc. complete including cost of formwork, finishing the cement concrete road by Trimix process inclusive of labour charges for trimix vacume dewatering process on cement concrete road by using vacume dewatering pump, surface floater, including channelling and making grooves & rough finish to surface, providing expansion joint, construction joint including filling the joint with asphalt filler as per direction by engineer in charge and as per specification. | As per seperate sheet attached. |
| 14 | Providing and fixing in position I.S.I. mark Fe-550D T.M.T. bar reinforcement including cutting, bending and tying complete as per detailed drawing (A) R.C.C. kerb (B) R.C.C. Footpath (C) R.C.C. Approach slab (D) Wearing coat. | As per seperate sheet attached. |
| 15 | Providing and fixing ordinary kilometer stone of precast C.C. 1:2:4 including necessary reinforcement as per I.R.C. type design in C.C. 1:4:8 including painting, lettering etc. complete (For O.D. road V.R.) | As per seperate sheet attached. |
| 16 | Providing and fixing Hectometer stone as per I.R.C. type design including painting, lettering etc. complete (i) Fixing in earth. | As per seperate sheet attached. |
| 17 | Providing and fixing Guard stone as per I.R.C. type design including white washing etc. complete (i) Fixing in earth. | As per seperate sheet attached. |
| 18 | Direction sign (Junction board) :- Providing and fixing sign boards made out of 2mm aluminium sheet size 244 x 122cms. rectangle as per the design of IRC-67-1977 pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint, reflectorised with retro reflective sheeting as per latest M.O.S.T. specifications; Letters and numerals should be as per IRC-30-1968, 3.1m long (2 nos) stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5mm, 75 x 75 x 6mm as required painted with best quality epoxy coatings in black and white bends. The details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60cms. for each leg including excavation curing etc. complete under the supervision of engineer in charge. (A) Engineer Grade (VR) | As per seperate sheet attached. |

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| 19 | Regulatory / Mandatory signs : Providing and fixing sign boards made out of 2mm aluminium sheet size 60cms. diameter circle as per the design of IRC-67-1977 pre treated with phospheting process & acid etching, coated with one coat of epoxy primer and two coats of best quality epoxy paint, reflectorised with retro reflective sheeting as per latest M.O.S.T. Specifications; 3.1m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm, 75 x 75 x 6mm as required; painted with best quality epoxy coatings in black and white bends. the details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60cms. for each leg including excavation curing etc. complete under the supervision of engineer in charge. (A) Engineer Grade (VR) | As per seperate sheet attached. |
| 20 | Village name/ Bump Ahead sign :- Providing and fixing sign board made out of 2 mm alluminium sheet size 90 x 60 cms rectangle as per the design of IRC-67-1977 pre treated with phospheting process and acid etching coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with retro reflective sheeting as per latest M.O.R.T.H. specifications. Letters and numerals should be as per IRC-30-1968, 310m long (2 Nos.) stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5 mm painted with best quality epoxy coating in black and white bends. The details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 C.C. 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) Engineer grade (VR). | As per seperate sheet attached. |
| 21 | Hazard Marker Sign :- Providing and fixing sign board made out of 2mm aluminium sheet size 90 x 30 cms. rectangle as per the design / drawing attached (IRC) pretreated with phospheting & acid etching, coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with retro reflective sheeting as per latest M.O.S.T. specification, 3.1m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm & 50 x 50 x 5mm painted with best quality epoxy coatings. The fixing at site shall be in 1:2:4 C.C. block of size 45 x 45 x 60cms for each leg including excavation curing etc. complete under the supervision of Engineer in charge. (A) Engineer grade (VR). | As per seperate sheet attached. |
| 22 | STOP SIGN :- Providing and fixing sing boards made out of 2mm aluminium sheet size 90 x 90cms. rectangle as per the design of IRC-67-1977 pretreated with phospheting process & acid etching, coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with retro reflective sheeting as per latest M.O.S.T. specifications; 3.1m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm, 75 x 75 x 6mm as required; painted with best quality epoxy coatings in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60cms. for each leg including excavation curing etc. complete under the supervision of Engineer in charge. (A) Engineer grade (VR). | As per seperate sheet attached. |

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| 23 | Cautionary Warning Sign :- Providing and fixing sign board made out of 2mm aluminium sheet size 90 x 90 x 90 cms equilateral triangle as per the design of IRC-67-1977. Pre treated with phospheting process and acid etching coated with one coat of epoxy primer and two coats of best quality epoxy paint, reflctorized with retro reflective sheeting as per the latest M.O.R.T.H. specification, 3.1 Mt. long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3 mm, 75 x 75 x 6 mm; painted with best quality epoxy coating in black and white bends. The details of symbol for each board shall be as per the instruction 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) Engineer grade (VR). | As per seperate sheet attached. |
| 24 | Excavation for foundation up to 1.50 mt. depth including sorting out and stacking of useful material and disposing off the excavated stuff within all lead and lift for all sorts of soil. | As per seperate sheet attached. |
| 25 | Providing and casting in situ ordinary cement concrete M-150 mix and providing necessary pin headers including shuttering, scaffolding, laying, vibrating, curing and finishing complete without V-grooves. (A) Height from 0.0 M. to 5.0 M. | As per seperate sheet attached. |
| 26 | Supplying and fixing ISI reinforced concrete heavy duty non-pressure 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 diameter. (v) 1200 mm dia. | As per seperate sheet attached. |
| 27 | White washing with lime on wall surface (two coats) to give an even shade including thoroughly brooming the surface to removed all dirt, dust mortar drops and other foreign matter. | As per seperate sheet attached. |
| 28 | Providing and fixing 20 cm. x 15 cm. x 2.5 cm. thick year plate of marble stone set in C.C. 1:4 including finishing and engraving letters etc. complete. | As per seperate sheet attached. |
| 29 | Providing and fixing in position I.S.I. mark Fe-550D T.M.T. bar reinforcement including cutting, bending and tying complete as per detailed drawing (A) Piers (B) Abutment (C) R.C.C. returns. | As per seperate sheet attached. |
| 30 | Dismantling the existing structure including removing and stacking the dismantelled materials as and where directed. (B) Rubble masonry. | As per seperate sheet attached. |
| 31 | Providing the diversion by proper means i.e. in proper grade, camber and approach etc. for easy passing of traffic including providing necessary sign board, making etc. and maintaining the same during the period of work up to completion of work. | As per seperate sheet attached. |

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