

**Name of Work :- Improvement of Kanalus Railway station road (VRNP) of Lalpur Taluka under SCSP-MMGSY Yojana Package No.JAM/SCSP/MMGSY/RSNP/ 2023-24/P-13 Tal: Lalpur**

### **SPECIFICATION OF INDEX**

<b>Sr. No.</b>	<b>Item No.</b>	<b>Item Description</b>	<b>Volum No.</b>	<b>Page No. as per Std. booklet</b>	<b>Item No. as per Std. specification</b>	<b>Remarks</b>
1	1	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be use of ouctioned upto a lead of 1000mt. including removal and disposal of top organic soil not exceeding 150mm in thickness (C) by Mechanical means in area of light Jungle	II	--- As per attached sheet ---		
2	2	Earthwork for embankment including breaking clods, dressing with all lead and lift (excluding watering and consolidation) From Borrow area within all lead	II	--- As per attached sheet ---		
3	3	Rolling and watering of earthwork in layers with Vibratory roller including filling in depressions which occur during the process as directed	II	--- As per attached sheet ---		
4	4	Providing and laying asphalt painting on B.T. surface with bitumen VG-30 at rate 5.00Kg / 10Sq.mt. and spreading stone dust for painting surface at rate of 0.03 cu.mt. / 10 sq.mt.	II	--- As per attached sheet ---		
5	5	Providing and laying and rolling 37.50mm thick bituminous groutin with B.T. aggregate as per Required Gradation and using bitumen Grade VG-30 for Mixing at the rate of 1.99% i.e. 19.90 kg/M.T. of total mix and VG-30 for tack coat at the rate of 2.5 kg/10sq.mt on existing B.T. surface including heating and mixing in Drum mix plant ,trasporting spreading same by paver finisher and consolidation by viberated roller including necessary firewood, oil,kerosene, lubricants all equipments, tools, labour charges etc. complete using contractor's own machinary in accordance with the requirement of specification.	II	--- As per attached sheet ---		

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6	6	Providing and laying 50.00 mm thick B.M. With BT Aggregate VG-30 grade bitumen for Tack coat @ 2.50 kg/10 sqm using crushed stone aggregate 0.66 cum/ MT as per MORTH&H Specification & VG-30 grade bitumen for mixing @35.00 Kg/1 MT i.e. 3.5% of by weight of total mix incl. heating and mixing by drum mix plant and spreading the same with paver finisher consolidation with vibratory roller including cost of fuel, hire charges, all necessary equipments, tools and plant, fire wood, oil, kerosene labour charges etc complete.( Using contractor's own Machinery)	II	---	---	As per attached sheet ---
7	7	Providing and laying 20 mm thick Mix seal surface using stone chips @66% by weight, gradation as per MORTH specification and using bitumin VG 30 grade for mixing rate not less then 50.90KG/MT on BT surface using stone chips as per MORTH specification including heating the asphalt and aggregates by hot mix plant and spreading the same with paver finisher including consolidation wit vibratory roller and providing, operating plant machinaries, equipments, tools, plants, oil, fire wood, kerosene and all labour charges etc. complete.	II	---	---	As per attached sheet ---
8	8	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.	II	---	---	As per attached sheet ---
9	9	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.	II	---	---	As per attached sheet ---
10	10	Providing and casting in situ Ordinary trimix cement concrete M-250 for average 200mm thick road work laid as directed including adding super platisizer admixture of IS make and providing and laying M.S. side rail of road thickness with necessary nut bolts plates fixing as per width applying plate vibrator (electric or diesel) on channel compressor with vacuum dewatering system by using all necessary equipments and materials and machinery such as running screed vibrator on prelaid M.S. channel for leveling ,Vacume pump, floating and power towelling etc with filling the joints with bitumen as directed etc complete.	II	---	---	As per attached sheet ---
11	11	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.)	II	---	---	As per attached sheet ---

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12	12	Providing and fixing Hectometer as per I.R.C. type design including painting, lettering etc. complete.(i) Fixing in C.C. 1:5:10	II	---	As per attached sheet	---
13	13	Providing and fixing guard stone as per I.R.C. type design including white washing etc. complete.(ii) Fixing in Earth	II	---	As per attached sheet	---
14	14	Providing and fixing indicator stone of approved stone as per I.R.C. type design in C.C. 1:4:8 including white washing etc. complete.(ii) Fixing in Earth	II	---	As per attached sheet	---
15	15	Village name Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90x60 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 High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.3mtr long stand post of Iron Angle 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 bestquality 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 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 7 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. (B) Class-B Type-4 Retro Reflective sheeting	II	---	As per attached sheet	---

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16	16	Cautionary Warning Sign :-Providing and fixing sign boards made 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 High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of Iron Angle 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 bestquality 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 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 7 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. (B) Class-B Type-4 Retro Reflective sheeting	II	---	As per attached sheet ---	
17	17	Direction (Junction) Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 244x122 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 High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4.0mtr (2 Nos.) long stand post of Iron Angle 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50x50x5mm; painted with bestquality 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 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 7 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. (B) Class-B Type-4 Retro Reflective sheeting	II	---	As per attached sheet ---	

Deputy Executive Engineer  
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