

**Schedule for Construction of Geeda to Dhauhani Approach Road Length 4.88 km.
Under Sub Division Deosar Distt- Singrauli (M.P.)**

ad SOR w.e.f. 11.04.2025

P.A.C. Rs. 476.04 Lakh

| S.N. | Item of work | Quantity | Unit | Rate | Amonut |
|------|--|----------|------|---------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 6 | 4.2 Crusher Run Macadam Sub Base/Base Course Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller as per clause 410 to form a layer of sub-base/Base in accordance to Table No. 400-14, 400-15 and as per clause of section 407 of specifications. | | | | |
| | (ii)For 37.5 mm maximum size | 5452.96 | Cum | 1198.00 | 6532647.00 |
| 7 | 4.16 Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 kN static weight to meet requirement as per relevant clause of 400. | | | | |
| | B Hard Shoulders (CBR value >12) | | | | |
| | Add Extra Widening 4 | 7894.78 | Cum | 398.00 | 3142122.00 |
| 8 | 4.3 Wet Mix Macadam 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 in accordance to Table No. 400-12, 400-13 and as per clause of section 406 of specifications. | | | | |
| | | 4199.85 | Cum | 1451.00 | 6093982.00 |
| 9 | 5.1 Prime Coat Over WMM/WBM Providing and applying primer coat with cationic bitumen emulsion on prepared surface of granular Base including cleaning of road surface and spraying primer at the rate of 0.70 to 1.00 kg/sqm using mechanical means as per clause 502 of specifications. (i) Providing and applying primer coat with cutback MC 30 bitumen emulsion on prepared surface of granular Base including cleaning of road surface and spraying primer at the rate of 0.60 to 0.90 kg/sqm using mechanical means as per clause 502 of specifications. | | | | |
| | | 18666.00 | Sqm | 44.00 | 821304.00 |
| 10 | 5.3 Providing and applying tack coat with cationic bitumen emulsion using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per relevant clauses of section-503 of specifications (ii)@0.30 kg per sqm (dry & hungry bituminous surfaces/Granular surfaces treated with \ primer) | | | | |
| | | 18666.00 | Sqm | 17.00 | 317322.00 |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| 11 | 5.5 Bituminous Macadam Providing and laying bituminous macadam using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with Electronic Sensor paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction and as per clause 504 of | | | | |
| | b) Using Drum Mix Plant of appropriate capacity. | | | | |
| | (I) for Grading (19 mm nominal size) bitumen content 3.5% with bitumen 60/70 (VG 30) | | | | |
| | | 933.30 | Cum | 5329.00 | 4973556.00 |
| 12 | 5.9 Open - Graded Premix Surfacing Providing, laying and rolling of open - graded premix surfacing of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or cut-back 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 smooth wheeled roller 8-10 tone capacity, finished to required level and grades all complete as per clause 510 of specification. | | | | |
| | (i) Case - I: Mechanical method using Penetration grade Bitumen VG 30 and HMP of appropriate capacity not less than 75 tones/hour. | | | | |
| | | 18666.00 | Sqm | 121.00 | 2258586.00 |
| 13 | 5.11 Seal Coat Providing and laying seal coat, sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A and B seal coats, all complete as per clause 511 of Specification. | | | | |
| | (ii) Case - II: Type B (Providing and laying of premix sand seal coat using HMP of appropriate capacity not less than 75 tonnes/ hours using crushed stone chipping (aggregate shall pass 2.36mm sieve and retained to 180-micron sieve) and penetration bitumen VG 30 of suitable grade all complete as per clause 511 of specification. | | | | |
| | | 18666.00 | Sqm | 50.00 | 933300.00 |
| 14 | 8.35 Cable Duct Across the Road Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings | | | | |

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|------|--|----------|------|---------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | (i) Single Row for one utility service | 275.00 | Rm | 1900.00 | 522500.00 |
| 15 | 8.4 Retro- reflectorised Traffic signs Providing and fixing of retro- flectorised cautionary, mandatory and inforatory sign board as per IRC 67-2012 made of highv intensity Micro Prismatic Grade Sheeting (Type IV) vide IRC: 67:2012 clause 6.7.3.2 and clause 801.3.3 of MoRT&H fixed over IRC Accredited board made of dvance polymer composite. The board shall be of min. 2.5 mm sheet thickness with specially designed edges to make it tamper proof. Specification and High Intensity Micro Prismatic Grade Sheeting shall conform to Table 6.6 of IRC:67:2012 and Table 800-3 of MoRT&H specification of in the clause IRC 6.8 of the IRC 67-2012 and clause 801.3.7 of MORTH message legend numerical letter etc. and borders shall be screen printed on high intensity micro prismatic sheeting shall conform to clause 801.3.7 with digital printing ink or of cutout from transparent durable overlay or cutout from the same type of reflecting sheeting for cautionary/ mandatory/ signs, supported on an IRC Accredited triangular sign post of size 75mm x 60 mm x60 mm (4 MM wall thickness) made of advance polymer composite of 3.60 meter over all length and fix to ground by means of properly designed foundation of dimension 50x450x600mm with M20 grade concrete. The ACM sheet shall be fixed to the post with four minimum number breakaway bolts. & supported with a back support frame of 5mmx25mmx3mm angle. 7 years warranty for Retro Reflection Sheeting to be provided from the original sheeting manufacture as per clause 6.9 of IRC: 67:2012 & a certified copy for three years for out door exposure report from an independent test lab as per clause 6.7 of IRC: 67:2012 for the product offered shall be submitted by the contractor. | | | | |
| | ii) 60 cm equilateral triangle (Turning) | 18.00 | Each | 3827.00 | 68886.00 |
| | iii) 60 cm circular (Speed Limit & delenator) | 12.00 | Each | 4178.00 | 50136.00 |
| | iv) 80 mm x 60 mm rectangular (Village & School) | 10.00 | Each | 5500.00 | 55000.00 |
| | v) 60 cm x 45 cm rectangular (Hospel & Petrol Pump) | 6.00 | Each | 4064.00 | 24384.00 |
| | vi) 60 cm x 60 cm square (Speed Breaker) | 10.00 | Each | 4685.00 | 46850.00 |

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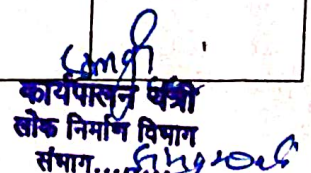
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संभाग...*Singrauli*

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|------|---|----------|------|----------|----------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 16 | <p>8.9 Direction and Place Identification signs upto 0.9 sqm size board Providing and fixing of retro-reflectorised cautionary, mandatory and inforatory sign board as per IRC 67-2012 made of high intensity Micro-Prismatic Grade Sheeting (Type XI) vide IRC: 67:2012 clause 6.7.3.2 and clause 801.3.3 of MoRT&H fixed over IRC Accredited board made of Advance polymer composite. The board shall be of min. 2.5 mm sheet thickness with specially designed edges to make it tamper proof. Specification and High Intensity Micro Prismatic Grade Sheeting shall conform to Table 6.6 of IRC:67:2012 and Table 800-3 of MoRT&H specification of in the clause IRC 6.8 of the IRC 67-2012 and clause 801.3.7 of MORTH message legend numerical letter etc. and borders shall be screen printed on high intensity micro prismatic sheeting shall conform to clause 801.3.7 with digital printing ink or of cutout from transparent durable oay or cutout from the same type of reflecting sheeting for cautionary/ mandatory/ signs, supported on Sqm</p> | | | | |
| | <p>an IRC Accredited triangular sign post of size 75mm x 60 mm x60 mm (4 MM wall thickness) made of advance polymer composite of 3.60 meter over all length and fix to ground by means of properly designed foundation of dimension 450x450x600mm with M20 grade concrete. The ACM sheet shall be fixed to the post with four minimum number breakaway bolts. & supported with a back support frame of 25mmx25mmx3mm angle. 10 years warranty for Retro Reflection Sheeting to be provided from the original sheeting manufacture as per clause 6.9 of IRC: 67:2012 & a certified copy for three years for outdoor exposure report from an independent test lab as per clause 6.7 of IRC: 67:2012 for the product offered shall be submitted by the contractor. Note:- Manufacture name and date of manufacture is to be printed (Embossed) at the backside of the board.</p> | | | | |
| | | 1.80 | Sqm | 19950.00 | 35910.00 |
| 17 | <p>8.38 Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beeds on Bituminous surface. Providing and applying (Cleaning of Bituminous surface) thermoplastic compound having composition of binder (Regin) minimum 18 %, titanium dioxide minimum 10 % and intermixed glass beed, minimum 30% of brand like Asian, Burger or equivalent make of 2.5 mm thick including drop down reflectorizing, glass beeds @ 250 gms per sqm area thickness of 2.5 mm is exclusive of surface applied glass beeds as per IRC:35.The finished surface to be level, uniform and free from streaks and holes, all complete as per clause 803 of specifications.</p> | | | | |


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 संपादन... 11/04/2025

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|------|---|----------|------|---------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | | 976.00 | Sqm | 440.00 | 429440.00 |
| 18 | 8.5 Kilo Metre Stone Reinforced cement concrete M15grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc | | | | |
| | (i) 5th kilometre stone (precast) | 0.00 | Nos | 3686.00 | 0.00 |
| | (ii) Ordinary Kilometer stone (Precast) | 6.00 | Nos | 2131.00 | 12786.00 |
| | (iii) Hectometer stone (Precast) | 19.00 | Nos | 621.00 | 11799.00 |
| 19 | 12.1 Excavation for Structures Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom as per relevant clauses of section 300 & 2100 in | | | | |
| | I Ordinary soil (including back filling with approved material) (i) Depth upto 3 m | 1698.56 | Cum | 79.00 | 134186.00 |
| | II) Ordenary Rock (Not requiring blasting) | 152.84 | Cum | 239.00 | 36529.00 |
| 20 | 12.2 Add extra as follows in the rates of the above items if dewatering is resorted to a) upto 3 m depth | | | | |
| | I Ordinary soil | 325.19 | Cum | 39.50 | 12845.00 |
| | II Ordinary Rock | 152.84 | Cum | 119.50 | 18264.00 |
| 21 | 12.3 Providing Plain cement concrete M-15 nominal mix in foundation as per relevant clauses of sections 1500, 1700 and 2100. | | | | |
| | | 242.46 | Cum | 4225.00 | 1024394.00 |
| 22 | 12.6 Providing and laying Plain/Reinforced cement concrete in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . | | | | |
| | A PCC Grade M15 | 594.00 | Cum | 3925.00 | 2331450.00 |
| | Concrete with plant (Drum Type) and placing B PCC Grade M20 | 489.92 | Cum | 4083.00 | 2000343.00 |
| 23 | 9.1 PCC M-15 in Foundation Plain cement concrete M-15 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. as per MORT&H Specification 409. | | | | |
| | | 28.94 | Cum | 4225.00 | 122272.00 |
| 24 | 9.8 Providing P.C.C. M-15 Nominal mix for hume pipe culverts in foundation and sub structure etc. as per drawing and as per relevant clauses of section 1500, 1700, 2100 and 2900. | | | | |
| | | 250.04 | Cum | 4425.00 | 1106427.00 |

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|------|--|----------|-------|----------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 25 | 9.2 Providing and Laying Reinforced Cement Concrete Pipe NP4/prestrssed concrete pipe on first class bedding in single row. Providing and Laying Reinforced cement concrete pipe NP4/prestrssed concrete pipe for culverts on first class bedding of granular material (cost of bedding included) in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets | | | | |
| | B 1000 mm dia | 100.00 | Rm | 6732.00 | 673200.00 |
| 26 | 13.1 Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications | | | | |
| | A PCC Grade M15 Concrete with plant (Drum Type) and placing | 1.60 | Cum | 3980.00 | 6368.00 |
| | B PCC Grade M20 Concrete with plant (Drum Type) and placing | 546.30 | Cum | 4395.00 | 2400989.00 |
| | C PCC Grade M25 Concrete with plant (Drum Type) and placing 1 Height up to 5 m | 23.59 | Cum | 4777.00 | 112689.00 |
| 27 | 13.4 Supplying, fitting and placing HYSD bar reinforcement in substructure complete as per drawing and technical specifications and as per relevant clause of section 1600. | | | | |
| | FE 500 | 8.2100 | Tonne | 67395.00 | 553313.00 |
| 28 | 9.3 Providing and Laying Reinforced Cement Concrete Pipe NP 4 /prestrssed concrete pipe on first class bedding in double row. Providing and Laying Reinforced cement concrete pipe NP4 /prestrssed concrete pipe for culverts on first class bedding of granular aterial (cost of bedding included) in double row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets. | | | | |
| | B 1000 mm dia | 25.00 | Rm | 13621.00 | 340525.00 |
| 29 | 14.1 Providing and Placing Reinforced/ Prestressed cement concrete in superstructure e/x reinforcement as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in B RCC Grade M25 | | | | |
| | Concrete with plant (Drum Type) and placing 1 Height up to 5 m | 97.37 | Cum | 5623.00 | 547512.00 |

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|------|---|----------|------|-----------------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 30 | 14.11 Providing and laying Cement concrete wearing coat 75 mm thick with M-30 grade concrete with cement , coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 19 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with static paver, spread, compacted and finished with power trowel in a continuous operation including provision of admixtures as approved, curing compound, finishing to lines and grades as per drawing but including cost of steel etc. including reinforcement, texuring with texuring brush complete as per drawing and Technical Specifications and as per relevant clauses of sections 1500, 1700 and Clause 2702 of pecifications. | ✓ | | ✓ | ✓ |
| | | 14.07 | Cum | 10517.00 | 147974.00 |
| 31 | 14.4 Supplying, fitting and placing HYSD bars reinforcement in superstructure complete as per confirming to IS 1786:2000 drawing and technical specifications as per relevant clauses of section 1600 | ✓ | | ✓ | ✓ |
| | (i) FE 500 | 11.78 | MT | 67538.00 | 795598.00 |
| 32 | 13.8 Back filling behind abutment, wing wall and return wall complete as per drawing and Technical specification and as per relevant clauses 305 of specifications and as per ppendix 6 of IRC-78. | ✓ | | ✓ | ✓ |
| | A Granular material | 575.44 | Cum | 771.00 | 443664.00 |
| 33 | 13.16 Providing and fixing in position bituminous paper bearing for slabs as per approved drawing and confirming to IS:1398. | ✓ | | ✓ | ✓ |
| | | 35.10 | Sqm | 48.00 | 1685.00 |
| 34 | 13.7 Providing weep holes in Brick asonry/Plain/Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical specifications. | ✓ | | ✓ | ✓ |
| | | 381.00 | RM | 174.00 | 66294.00 |
| | | | | Total Rs. | 47603834.00 |
| | | | | Say Rs. In Lakh | 476.04 |

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Sub-Engineer

Om
Sub Divisional Officer
P.W.D. Sub Dn. Deosar

Singh
Executive Engineer
P.W.D. Division Singrauli

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सिंघौली, रावा (म.प्र.)