

INVITATION OF TENDER

District Nirmithi Kendra, Thiruvananthapuram invites tender from the competent firms/experienced contractors in prescribed form for Renovation of damaged road at Mangalathukonam Palachalkkonam Road.

SI No	PARTICULARS	QTY	UNIT
1	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 mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead	53.419	cum
2	Modified Penetration Macadam 50 mm thick using Bitumen S-65 Construction of penetration macadam over prepared base by providing a layer of compacted crushed coarse aggregate using chips spreader with alternate applications of bituminous binder and key aggregates and rolling with a three wheel 80-100 kN static roller to achieve the desired degree of compaction as per Technical Specification Clause 506.	135.3	sqm
3	Prime Coat Medium porosity :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90- 1.2 kg/sqm using mechanical means as per Technical Specification Clause 502.	712.250	sqm
4	Tack Coat Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of	712.250	sqm



	0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.		
5	<p>Tack Coat</p> <p>Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per Technical Specification Clause 503</p>	1405.250	sqm
6	<p>20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65</p> <p>Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen 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 three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508.</p> <p>Case - I By Manual Means (II)Bitumen (S-65)</p>	2117.500	sqm
7	<p>Seal Coat - Manual Means - Type C - Bitumen S-65</p> <p>Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510</p> <p>A.By Manual Means:-Case - III : Type C (II)Bitumen (S-65)</p>	2117.5	sqm
8	<p>Providing Plain cement concrete for berm concrete work (without form work)CC 1:2:4(1cement:2fine aggregate:\$course aggregate)laid to required slope and camber in panels(@3mc/c)as required including compaction,finishing and tamping etc.complete.Max:size of course aggregate not exeeding 25mm,mixed in concrete mixer etc complete as per specification
(i)Nominal mix (1:2:4)</p>	1.33	M3

period. The terms of the accepted offer shall be incorporated in the purchase order.

7) The amount will be released after verification of the material in physical, quality and receipt of invoice in this office according to the availability of funds. Individual or Authorized dealers/agents are only eligible.

8) Tenderer are requested to provide offer latest by 12 hours on **22.02.2022** and the tender will be opened at **22.02.2022**.

9) Cost of Tender form: Nil

10) Earnest Money Deposit: Nil

We look forward to receiving your tender and thank for your interest in this work.


Project Manager

TENDERNO.1086(2)/20/DNK

DISTRICT NIRMITHI KENDRA, THIRUVANANTHAPURAM

TENDER SCHEDULE

Sl.NO	PARTICULARS	QTY	UNIT	RATE	AMOUNT
1	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 mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well	53.419	cum		

	<p>prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406.</p> <p>By Mechanical Means with 1 km lead</p>				
2	<p>Modified Penetration Macadam 50 mm thick using Bitumen S-65</p> <p>Construction of penetration macadam over prepared base by providing a layer of compacted crushed coarse aggregate using chips spreader with alternate applications of bituminous binder and key aggregates and rolling with a three wheel 80-100 kN static roller to achieve the desired degree of compaction as per Technical Specification Clause 506.</p>	135.3	sqm		
3	<p>Prime Coat</p> <p>Medium porosity :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90-1.2 kg/sqm using mechanical means as per Technical Specification Clause 502.</p>	712.250	sqm		
4	<p>Tack Coat</p> <p>Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.</p>	712.250	sqm		
5	<p>Tack Coat</p> <p>Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per</p>	1405.250	sqm		

	Technical Specification Clause 503				
6	<p>20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65</p> <p>Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level</p> <p>to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508.</p> <p>Case - I By Manual Means (II)Bitumen (S-65)</p>	2117.500	sqm		
7	<p>Seal Coat - Manual Means - Type C - Bitumen S-65</p> <p>Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510</p> <p>A.By Manual Means:-Case - III : Type C (II)Bitumen (S-65)</p>	2117.5	sqm		
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(i)Nominal mix (1:2:4)</p>	1.33	M3		
	TOTAL				