Email ID: eekwatsr@gmail.com



Tel: 0487 - 2333070

KERALA WATER AUTHORITY

Office of the Executive Engineer, Public Health Division, Thrissur – 680 020.

No. A3-7202/2022-23

Dated: 20.01.2023

From

The Executive Engineer

To

Sri. Santhosh Jack , Chowalloor House, P.O.Kottapadi, Thrissur

Thrissu

Sir.

Sub: -: : Jal Jeevan Mission (JJM)-Laying pipe lines for supply improvement in Kattakambal Panchayath - -Phase 2- SLSSC-5th-Part-1-Pipeline Work

Ref:- 1. E-tender No.39/EE/PHD/TSR/2022-23

With reference to the above, you are hereby informed that your tender for the above work is accepted at the rates quoted by you ie., Rs. 4741325.67 /- (INR Forty Seven Lakh Forty One Thousand Three Hundred & Twenty Five and Paise Sixty Seven Only) excluding GST. You are directed to attend this office on or before 03.02.2023 with the required stamp paper (0.1% of Accepted PAC) for executing the agreement and start the above work within a week after getting necessary instructions from the Asst. Exe. Engineer, Water Works Sub Division, Thrissur.

- 1. Before executing the agreement on stamp paper you should deposit an amount of **Rs. 237100**/- (Rupees Two Lakh Thirty Seven Thousand One hundred only), of which 50% i.e. **Rs. 118550**/- (Rupees One lakh Eighteen Thousand Five Hundred Fifty only) should be deposited in the form of Treasury fixed deposit and rest in the form of bank guarantee or any other forms prescribed in the revised PWD manual duly pledged in favour of Executive Engineer, PH. Division, Kerala Water Authority, Thrissur-20 as security deposit for the fulfillment of the contract.
 - a) The time allowed for executing agreement without fine will be 15 days from the date of registration of the communication (Selection Notice) in the Post Office.
 - b) Further time of 10 days shall be allowed to executive agreement by realizing a fine of 1 % of the P.A.C. subject to a minimum of Rs.1000/- and a maximum of Rs.25,000/
 - c) Tender will be rejected if agreement is not executed within 25 days, and work will be awarded to the next lowest renderer as stipulated under clause 4-10-5 of the code.

 The contractor will take over charge of the site within 3 days after executing agreement, and commence the work.

II. Any failure in this direction will result in forfeiture of your special and permanent E.M.D. and cancellation of the proposed contract and the contractor shall be liable to pay the Authority the entire loss that may be caused to Authority by re-tender or re-arrangement of works otherwise consequent on the contractor's failure to execute the agreement or execute the work as provided forth the Clause 13 of the notice inviting tenders and all such loss shall be recovered from him under the provisions of the Revenue Recovery Act or otherwise.

IV It must be understood that on no account will rates once fixed be increased.

V The work should be completed within 3 (Three) months showing proportionate progress from the date of this order. During actual execution if extension of time is found unavoidable the application is to be prepared well in advance explaining the ground with a programme for completion (in duplicate – one directly to Executive Engineer and the other through proper Channel with remarks of officers)

VI All the terms and conditions of the notice inviting tenders and tender shall be binding on this contract also.

VII The contractor shall guarantee satisfactory performance of the work for a period of 18 months after completion of the work. During the guarantee period any repairs that shall be necessitated shall be carried out by the contractor without any extra cost and within the shortest possible time, failing which the work shall be arranged / attended by the Kerala Water Authority at the risk and cost of the Contractor as per prevailing KWA tender conditions

VIII KWA deserves the right to recover any amount due to KWA from any other work undertaken by the contractor in KWA.

Yours faithfully,

Acc: Accepted schedule

Executive Engineer

Copy to Agreement / Duplicate Agreement Copy to the Asst. Executive Engineer, P.H. Sub Division, Guruvayur . Copy to Asst. Engineer, P.H. Section Kunnamkulam

	ACCEPTED SCHEDULE	ACCEPTED SCHEDULE	SCHEDUL	E		
Name of work: : Jal Jeevan Miss	ion (JJM)-Laying pipe lir	nes for supply i	mprove	ment in Kattak	ambal Panchay	Name of work: : Jal Jeevan Mission (JJM)-Laying pipe lines for supply improvement in Kattakambal Panchayath Phase 2- SLSSC-5th-Part-1-
		Pipeline Work	e Work			
		QUANTITY	Ž	OHOTED BATE	AMOUNT	In Words
SI NO. ITEM DESCRIPTION				2001000	7	7
1 2		u	4	5	0	
1 Working charges						
1.001 100.1 1:Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.	equired width for pipes, for sockets, and dressing oth up to 1.5m, including then returning the soil as 20cm in depth, including r by ramming, watering, avated soil as directed, soil.	653.8000 cum	cum	611.0000		399471.8000 INR Three Lakh Ninety Nine I housand Four Hundred & Seventy One and Paise Eighty Only
1.002 100 1.5 Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including	100 1.5:Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including	186.8000 cum	cum	887.0000	165691.6000	165691.6000 INR One Lakh Sixty Five Thousand Six Hundred & Ninety One and Paise Sixty Only

Seventy Six Only						
1176.0000 INR One Thousand One Hundred &	1176.000	588.0000	2,0000 Each Cut	2.0000	18 83 6 Labour for cutting C I pipe with steel saw 250 mm	1 007
Only Only	59600.0000	298.0000	metre	200.0000 metre	100 14.6 Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials. 350mm diameter Ductile Iron Class K-9 Pipes.	8
Hundred Only	10/400.0000	179.0000	metre	600.0000 metre	100 14 4 Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS 8329 excluding cost of pipes and specials 250mm diameter Ductile Iron Class K-9 Pipes	1.005
Thousand Four					rows of 10cm plastic caution tape in vehicles (girth 15cm to 24cm) fixed at 2m intervals	
9900,0000 INK Nife Housand Wine House	9900.0000	30.0000	metre	330.0000 metre	100 8 1 Fencing one side of trenches 1 50m height with two	1004
Eighty Only			=	00.0000	100 1 14 Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth exceeding 1.5m but not exceeding 3 m. including getting out the excavated soil, and then returning the soil as required, in layers not exceeding then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus by ramming, watering, etc., and disposing of 50m, in Hard excavated soil as directed, within a lead of 50m, in Hard Rock where Blasting is Prohibited.	1.003

26400.0000 INR Twenty Six Thousand Four Hundred Only	26400	480.0000	oint	55.0000 joint	18.70.6 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:350 mm dia pipes	1.013
50662.0000 INR Fifty Thousand Six Hundred & Sixty Two Only	50662	347.0000	joint	146.0000 joint	18.70.4:Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:250 mm dia pipes	1.012
12900.0000 INR Twelve Thousand Nine Hundred Only		258.0000	metre	50.0000 metre	100.12.9:Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc., but excluding cost of pipes and fittings for External work: 100mm diameter nominal bore.	1.011
84000.0000 INR Eighty Four Thousand Only		140.0000	metre	600.0000 metre	100.9.9.Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 110 mm nominal outside diameter pipes	1.01
113520.0000 INR One Lakh Thirteen Thousand Five Hundred & Twenty Only		22000.0000	5.1600 quintal	5.1600	18.68.1. Providing and laying D.I. specials of class K - 12 suitable for push - on jointing as per IS : 9523. Upt 600 mm dia	1.009
1644.0000 INR One Thousand Six Hundred & Forty Four Only		822.0000	2.0000 Each Cut	2.0000	18.83.8:Labour for cutting C.I. pipe with steel saw 350 mm diameter C.I pipe	1.008

-2						
2428.0000 INR Two Thousand Four Hundred & Twenty Eight Only	2428.0000 	2428.0000	no	1.0000 no	100.31.1.6:Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 250mm diameter, Class I.	1.019
974.0000 INR Nine Hundred & Seventy Four Only	974.0000	974.0000	no	1.0000 no	100.31.1.2:Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 100mm diameter, Class I.	1.018
Only Only	14800.0000	74.0000	metre	200.0000 metre	100.35.6: Testing 350mm DI/CI pipeline with potable water to the required test pressure 350 mm dia Observed Data derived from item no 1024 of PHED DATA	1.017
33000.0000 INR Thirty Three Thousand Only	33000.0000	55.0000	0 metre	600.0000 metre	100.35.4:Testing 250mm DI/CI pipeline with potable water to the required test pressure. 250 mm dia Observed Data derived from item no.1022 of PHED DATA	1.016
1708.0000 INR One Thousand Seven Hundred & Eight Only	1708.0000	854.0000	00 no	2.0000 no	18.30.8:Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:350 mm diameter pipe	1.015
1254.0000 INR One Thousand Two Hundred & Fifty Four Only		627.0000	2.0000 no	2.00	18.30.6:Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:250 mm diameter pipe	1.014

1.023 OD179327/2022-2023:Conveyano pipe from Thrissur to Kattakampal	saddle piece after necessary earth workinds of soil refiling the trench including conveying cutting threading laying and brand new 20mm Gl pipe and specials stopcocks nipple reducers excluding the pipe and specials reducer etc complete
OD179327/2022-2023:Conveyance of D1K9 250 mm dia pipe from Thrissur to Kattakampal	OD165006/2022-2023:Shifting house connection to newly laid distribution pipe line using suitable size PVC/GI MS saddle piece after necessary earth work excavation in all kinds of soil refiling the trench including all charges for conveying cutting threading laying and jointing ISI marked brand new 20mm GI pipe and specials such as elbow union stopcocks nipple reducers excluding the cost of GI of GI pipe and specials reducer etc complete
600,0000 metre	25.0000 no
netre	no
115.0000	2756.0000
69000.0000	68900.0000
69000.0000 INR Sixty Nine Thousand Only	68900.0000 INR Sixty Eight Thousand Nine Hundred Only

85585.0000 INR Eighty Five Thousand Five Hundred & Eighty Five Only	85585.0000	٥٦	1.0000 no	100 98.464:Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 350mm.	2.006
Hundred Only	8			Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 250mm.	
	37800 0000	no	1.0000 no	100 98 462 Supply of CI Double Flanged Sluice Valve	2.005
	8279.0000	metre	6.0000 metre	OD145838/2022-2023 Supplying of DI double flanged K9 pipe -350mm dia	2.004
1	9900.0000	no	1.0000 no	100.98.458:Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.	2.003
	365.0000	metre	allelle		
			600 000	100.98.214:Supply of PVC Pipe, 6kg/cm2, 110mm Dia.	2.002
	5820.0000	0 metre	200.0000 metre	8329/2000, 350mm Dia.	2.00
				Cost of materials	2001

					size)	
11566.8000 INR Eleven Thousand Five Hundred & Sixty Six and Paise Eighty Only	11566.80	8100.0000	cum	1.4280 cum	4.1.5. Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal	3.002
9937.2000 INR Nine Thousand Nine Hundred & Thirty Seven and Paise Twenty Only	9937.20	325.0000	cum	30.5760 cum	2.8.1:Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil	3 001
					Construction of valve chamber	з
3775.4640 INR Three Thousand Seven Hundred & Seventy Five and Paise Forty Six Only	3775.46	0.0660	L.S	57204,0000 L.S	OD146454/2022-2023:Cost of GI specials 5 %	2 009
62900.0000 INR Sixty Two Thousand Nine Hundred Only		1258.0000	metre	50.0000 metre	OD146452/2022-2023:Supply of GI pipes with coupler (M) 100mm	2,008
6572.6100 INR Six Thousand Five Hundred & Seventy Two and Paise Sixty One Only		0.0330	r.s	199170.0000 L.S	OD145839/2022-2023:Cost of PVC specials	2.007

0.5

11861.1000 INR Eleven Thousand Eight Hundred & Sixty One and Paise Ten Only	11861.1000 II	345.0000	Sqm	34.3800 sqm	13 1.1:12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)	3 008 S
32008.5600 INR Thirty Two Thousand &Eight and Paise Fifty Six Only	32008.5600 F	788.0000	0 sqm	40.6200 sqm	5.9.2:Centering and shuttering including strutting, etc. and removal of form for Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	3.007
INR Three Thousand Five Hundred & Four and Paise Eighty Three Only	3504.8320 INR	368.0000	9.5240 sqm	9.52	5.9.1:Centering and shuttering including strutting, etc. and removal of form for Foundations, footings, bases of columns, etc for mass concrete	3 006
81077.7600 INR Eighty One Thousand &Seventy Seven and Paise Seventy Six Only	81077.7600	108.0000	750.7200 kilogram	750.72	5 22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	3,005
25701.9960 INR Twenty Five Thousand Seven Hundred & One and Paise One Hundred Only	25701.9960	9993.0000	2.5720 cum	2.57	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level 1.1.5.3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	3 004
Only	64346.1520	9446.0000	6.8120 cum	6.8	reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level 12:4 (1 cement - 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	

& Twenty Eight Only	00320.00			9.0000	HYSD bar reinforcement in foundation complete as per drawing and technical specifications - as per PWD specification 12.40	3 5 3
Nine Hundred Only	2/9900.00	310.000	Current	0000 CH	compacting graded stone aggregate to wet mix meccadam specification including pre-mixing 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- (as per PVVD specification code 4-12)	4 903
276750.0000 INR Two Lakh Seventy Six Thousand Seven Hundred & Fifty Only	276750.00	3075.0000	cum	90 0000 cum	OD145841/2022-2023 Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in place method with a rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause-401, Grading -VI, for sub-base cum drainage layer-mix in place method- (as per PWD specification code 4.1.8.2)	4 002
Only	10800.00	60.0000) cum	180 0000 cum	OD145840/2022-2023 Excavation for road work in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers ,trimming bottom and side slopes, in accordance with requirements of lines ,grades and cross section, and transporting to to the embankment location with in all lifts and lead up to 1000m (as per PWD specification code 3.6)	4 001
1					Road restoration charges for PWD	۵

;

Three Hundred & Seventy Five Only				concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder(NRMB) @ 5.2 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects<,br>For Grading - I (19 mm nominal size)	
138375.0000 NR One Lakh Thirty Eight Thousand	10250.0000	CUM	13 5000 cum	at the rate of 0.70 - 1.0kg/sqm using mechanical means(as per PWD Specification code-5.1.a)	4 000
33075.0000 INR Thirty Three Thousand &Seventy Five Only	73.5000	sqm	450.0000 sqm	OD145847/2022-2023:Providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular base including clearing of road surface and spraying primer	4.008
Forty One Only	341.000			open foundation complete as per drawing and technical specification R C.C grade M 20- using concrete mixer-(without form work) - Asper PWD specification 12.8.1.c	
9044 0000 INR Nine Thousand Nine Hundred &	884	3	1 0000	compacted by vibration including curing for 14 days. &It, br>, as per PWD specification 12-4 OD145846/2022-2023-Plain/ reinforced cement concrete in	4 007
12363.0000 INR Twelve Thousand Three Hundred & Sixty Three Only	8242.0000	cum	1.5000 cum	OD145845/2022-2023 Plain cement concrete 1.3.6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and	4.006
6255.0000 INR Six Thousand Two Hundred & Fifty Five Only	13.9000	sqm	450.0000 sqm	OD145844/2022-2023 Providing and applying tack coat with bitumen emulsion (RS)using emulsion pressure distributor (@0 2-0.3kg/m2 on the prepared bituminous surface cleaned with mechanical broom. (as per PWD Specification code-5.2.a)	4.005

4.01	თ	5.001	5.002
OD145849/2022-2023: Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average out put of 75 tone /hour using crushed aggregates of specified grading premixed with bituminous binder (VG 30), transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction, for grading I (40mm nominal size)- (as per PWD Specification code-5.3.1.a)	Road restoration charges for LSGD	OD145830/2022-2023-Excavation for load work. hydraulic excavator of 0.9 cum bucket capacity including hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers trimming bottom and side slopes, in accordance with requirements of lines grades and cross section and transporting to to the embankment location with in all lifts and lead up to 1000m for LSGD	OD145831/2022-2023. Granular sub-base/base/surface course with local materials (Table 400.13) by mix in place method normal. Construction of granular sub-base by method normal. Construction of granular sub-base by providing local material spreading in uniform layers with providing local material spreading in uniform layers with method with rotavator at once and compacting with smooth method with rotavator at once and compacting with smooth wheel roller to achieve the desired density complete as per Clause 401.4 as per Technical Specification Clause Clause 401.4 in String Gravel mix soil. (as per Lag. 2015)
22.5000 cum	40.0000 cum		30.0000 cum
ä	cum		cum
9150.0000	60.0000		2110.0000
205875.0000	2400.000		
Hundred & Seventy Five Only	2400.0000 INR Two Thousand Four Hundred	Only Code: Those Thousand Three	Hundred Only

; '

Seventy Only					Rates<,br>,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 & Eamp, cleaned with Hydraulic broom as per Technical Specification Clause 503 (as per LSGD<,br>,Specification code 75.5.2.3pb)<,br>	
4470.0000 INR Four Thousand Four Hundred &	4470.0000	14.9000	Sqm	300.0000 sqm	OD145834/2022-2023 Tack Coat - With Packed Bitumen	5 005
21300.0000 INR Twenty One Thousand Inree Hundred Only	21300.0000	71.0000	mps	300.0000 sqm	OD145833/2022-2023:Prime Coat - Low porosity - With Packed Bitumen Rates<:br> Providing and applying primer<:br>.coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and<:br>.spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502<:br>.(as per LSGD Specification code 75.5.1.1pb)	5 004
Only	40000	3100.0000	cum	15.0000 cum	OD145832/2022-2023 Wet Mix Macadam&It br>, Providing, laying, spreading and compacting graded stone aggregate to&It, br>, wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), &It br>, carriage of mixed material by tipper to site, taying in uniform layers in sub-base/base course on a well prepared subbase 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 & Decription and Technical Specification&It, br>, Clause 406, &It, br>, By Mechanical Means with 1 km lead(as per LSGD Specification code 4.9)	5 003

ξ′

E

Forty One Thousand Three Hundred & Twenty Five and Paise Sixty Seven Only	Forty One Thousand Three I and Paise Sixty Seven Only		INR Forty Seven Lakh	Quoted Rate in Words
			4747325.67	Quoted Rate in Figures
INR Forty Seven Lakh Forty One Thousand Three Hundred & Twenty Five and Paise Sixty Seven Only	4741325.67			Total in Figures
Hundred Only	22500.0000	75.0000	300.0000 sqm	5.007 OD145836/2022-2023: Seal Coat - Manual Means - Type C - Bitumen S-65 - Packed Bitumen Rates Providing and laying seal coat sealing the voids in a bituminous surface laid to the&Itbr>specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510&Itbr>A.By Manual Means Case III: Type&Itbr>C&Itbr>(II)Bitumen (S-65),including supplying and stacking of materials. (as per LSGD Specification code 75 5.12.A.3.2pb)
Hundred Only	53700.0000	179.0000	300 0000 sqm	Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 - Packed Bitumen Rates&It:br>. 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 &It:br>:Case - I By Manual Means&Itbr>:(II) Bitumen (S-65),including supplying and stacking of materials.(as per LSGD Specification code 75.5.9.1.2pb)

Homelo