



कार्यालय, नगर पालिक निगम, कोरबा (छ.ग.)

मुख्य कार्यालय - साकेत भवन, आई.टी.आई. चौक, कोरबा (छ.ग.)

बालको जोन

फा.क्र./1914/निर्माण (बालको जोन)/2022/

कोरबा, दिनांक 09.05.2022

द्वितीय ई-निविदा आमंत्रण की सूचना

लोक निर्माण विभाग से एकीकृत पंजीयन प्रणाली अंतर्गत सक्षम श्रेणी में पंजीकृत ठेकेदारों से निम्नलिखित कार्य हेतु प्रमुख अभियन्ता लोक निर्माण विभाग, रायपुर द्वारा प्रचलित **PWD Road SOR 01.01.2015** से प्रभावशील दर अनुसूची पर एस.ओ.आर. में प्रावधानित समस्त आयटम हेतु (निविदा खुलने के दिनांक तक समस्त संशोधनों के साथ) कम अधिक या समान दरों पर तथा शेड्यूल अनुसार प्रतिशत दर पर ई-प्रोक्चुरमेंट (E-Tendering) के माध्यम से निविदा आमंत्रित की जाती है :-

क्र.	कार्य का नाम	प्राक्कलन राशि लाख में	घरोहर राशि रु में	कार्यावधि	ठेकेदार का वर्ग	निविदा खुलने की अंतिम तिथि
1	नगर पालिक निगम क्षेत्रांतर्गत सड़कों एवं डामरीकृत सड़कों का मरम्मत एवं संधारण कार्य हेतु वार्षिक दर निर्धारण।	—	75,000 /-	12 माह (वर्षा ऋतु को छोड़कर)	सक्षम श्रेणी	26.05.2022 से

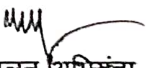
निविदा की शर्तें:-

1. निविदा दरें प्रचलित सी.एस.आर.से कम या अधिक प्रतिशत दरों पर दिया जावे सी.एस.आर.के अंतर्गत के आयटमों पर पृथक से आयटम दरों का उल्लेख करने पर निविदा निरस्त मानी जावेगी।
2. जिन ठेकेदारों द्वारा नगर पालिक निगम (साडा) के किसी ठेके के कार्य में अनुबंध के अनुरूप कार्य न किया गया हो अथवा नगर पालिक निगम (साडा) के हित के विरुद्ध कार्य किया गया हो उन्हें निविदा भरने की पात्रता नहीं होगी।
3. निविदा हेतु इच्छुक ठेकेदारों को उचित वर्ग में पंजीयन की प्रमाणित प्रतिलिपि यदि साझेदारी फर्म हो तो उसका प्रमाण पत्र (पार्टनरशिप डीड) की सत्य प्रतिलिपि, उपलब्ध तकनीकी अमले की जानकारी पिछले वित्तीय वर्ष का आय चुकता प्रमाणपत्र, पेन नम्बर, जी.एस.टी. पंजीयन प्रमाण पत्र एवं अमानत राशि ऑनलाईन जमा करना अनिवार्य होगा, प्रशिक्षित यंत्री नियुक्त करने संबंधी प्रमाण पत्र, कर्मचारी भविष्य निधि रायपुर से पंजीकरण का कोड एवं घरोहर राशि का स्केन कापी ऑनलाईन सिस्टम पर अपलोड करना अनिवार्य होगा।
4. सम्पूर्ण किये गये कार्यों के लिये 5 प्रतिशत की दर से सुरक्षा राशि एवं 5 प्रतिशत राशि पृथक से परफार्मेंस गारंटी की राशि रनिंग देयकों के साथ 01 वर्ष हेतु रोकी जायेगी।
5. जिन निविदाकारों द्वारा कर्मचारी भविष्य निधि संगठन एवं कर्मचारी राज्य बीमा निगम, रायपुर से पंजीयन कराकर कोड प्राप्त कर लिया हो वे निविदाकार ही निविदा हेतु पात्र होंगे।
6. निविदाकार को प्रत्येक निविदा में पंजीयन क्षमता के अंतर्गत वर्तमान में नगर निगम या अन्य विभागों में उनके द्वारा किये जा रहे कार्यों का विवरण राशि सहित मूल प्रति में वैध शपथपत्र देना अनिवार्य होगा।
7. निविदा में भाग लेने वाले ठेकेदारों को छ.ग. भवन और अन्य सन्निर्माण कर्मकार (नियोजन एवं सेवा शर्तों का विनियमन) अधिनियम 1996 एवं तदंतर्गत निर्धारित नियमों के तहत पंजीयन कराना आवश्यक होगा तथा निर्माण लागत का 1 प्रतिशत उपकर के रूप में प्रत्येक देयक से कटौती की जावेगी।
8. डामरीकरण कार्य की निविदा हेतु ठेकेदार को स्वयं के स्वामित्व/लीज के आटोमेटिक ड्रम मिक्स प्लांट, हॉट मिक्स प्लांट, पेवर फिनिशर, रोड रोलर एवं अन्य मशीनरी आदि मशीनों के प्रमाण पत्र ऑनलाईन सिस्टम पर अपलोड करना अनिवार्य होगा। साथ ही निविदाकार का कार्यस्थल से 60 किमी. की परिधि में हॉल मिक्स प्लांट होना आवश्यक है।

क्रमशः.....02

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9. ठेकेदार द्वारा 60/70 ग्रेड का डामर IOCL, BPCL, HPCL से ही क्रय कर लगाना होगा। ठेकेदार को तेल कंपनी को दी जाने वाली प्रदाय आदेश की प्रतिलिपि इस कार्यालय को देनी होगी।
10. कार्य में प्रयुक्त डामर खरीदी के देयक (बिल) कार्यालय में प्रस्तुत करने पर ही भुगतान किया जायेगा।
11. निविदाकार का यह दायित्व है कि वे निविदा भरने के पूर्व स्थल का स्वयं निरीक्षण कर लें ताकि प्रारंभ करने में किसी प्रकार की कठिनाई न हो।
12. शासन के विभिन्न विभागों जैसे:- खजिन विभाग, श्रम विभाग, समाज कल्याण विभाग इत्यादि विभागों द्वारा समय-समय पर जारी निर्देशों/आदेशों के पालन की समस्त जिम्मेदारी संबंधित ठेकेदार की होगी।
13. कार्य प्रारंभ नहीं करने अथवा अपूर्ण स्थिति में छोड़ने पर निगम द्वारा ठेकेदार के विरुद्ध तत् समय में एम.आई.सी. द्वारा स्वीकृत प्रस्ताव के अधीन कार्यवाही की जावेगी जिसकी संपूर्ण जवाबदारी ठेकेदार की होगी।
14. सफल निविदा दाता से अनुबंध के समय अतिरिक्त परफार्मेंस राशि जमा कराई जावेगी जबकि निविदा की दरों में काफी कमी हो जैसे निविदादाता को निविदा दर एवं अनुमानित लागत से 10 प्रतिशत से अधिक निविदा दर होने पर सफल निविदादाता को निविदा दर एवं अनुमानित लागत के 90 प्रतिशत अंतर की राशि के समतुल्य परफार्मेंस गारंटी के रूप में राष्ट्रीयकृत बैंक का एफ.डी.आर./टी.डी.आर. ऑफिस अथवा टाईम डिपॉजिट जो कि आयुक्त नगर पालिक निगम, कोरबा के नाम से देय होगा, जो मांग तिथि से 15 दिवस के भीतर जमा करना अनिवार्य होगा। उपरोक्त राशि को जमा न करने की दशा में निविदा निरस्त कर दी जावेगी।
15. निविदा प्रपत्र अहस्तांतरणीय होगा एवं संशर्त निविदाओं पर विचार नहीं किया जावेगा।
16. उक्त कार्य के अंतर्गत मरम्मत एवं संधारण मद में अधिकतम 4.00 लाख तक के कार्य पृथक-पृथक स्वीकृत किये जा सकेंगे।
17. निविदा के संबंध में किसी प्रकार की विवाद होने की स्थिति में आयुक्त के द्वारा अधीनस्थ अधिकारियों का निर्णय अंतिम एवं सर्वमान्य होगा।
18. निविदा स्वीकृत करने अथवा अस्वीकृत करने का अधिकार आयुक्त, नगर पालिक निगम के पास सुरक्षित रहेगा।
19. उपरोक्त निविदा सूचना के विस्तृत प्रति नगर पालिक निगम, कोरबा के साकेत भवन निर्माण शाखा बालको जोन से प्राप्त किये जा सकते हैं।



कार्यपालन अभियंता
नगर पालिक निगम
कोरबा (छ.ग.)

प्रतिलिपि—

प्रोग्रामर, संचालनालय, नगरीय प्रशासन एवं विकास विभाग, रायपुर को uad.cg.gov.in में अपलोड करने हेतु प्रेषित।

Date-Time Detail(s)

Seq. No.	Nagar Nigam Stage	Contractor Stage	Start		Expiry		Remarks
			Date	Time	Date	Time	
1	Release Tender		09.05.22	10.30	09.05.22	17.30	Release Tender
2		Bid Submission	09.05.22	17.30	25.05.22	17.30	
3	Tender Open		26.05.22	10.30	--	--	


EXECUTIVE ENGINEER
KORBA (CG)
 For, Commissioner Korba (C.G.)

नगर पालिक निगम क्षेत्रीय सड़को एवं डामरीयत (सडका का मरुमत एवं संधारण कार्य हेतु वार्षिक 52 निधारिण)

CHAPTER - 4

SUB-BASES, BASES (NON- BITUMINOUS) AND SHOULDERS

Item No.	Descriptions	Unit	Rate (Rs.)
4.1	Granular Sub-base as per Table:- 400-1		
	Construction of granular sub-base by providing graded Material, , carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401		
A	Plant mix method (with Mechanically crushed stone only)		
(a)	For Lower Sub-base with		
(i)	Grading-III Material	Cum.	1423.00
(ii)	Grading-IV Material	Cum.	1458.00
(b)	For Sub-base cum drainage layer or upper sub-base with		
(i)	Grading-V Material	Cum.	1372.00
(ii)	Grading-VI Material	Cum.	1363.00
B	By Mix in place method		
	Disintegrated rock i.e moorum having CBR value not less than 20 and P.I. and L.L. not more than 6 and 20 respectively. (For Village roads only)	Cum.	460.00
4.2	Lime Stabilization for Improving Sub-grade (Laying and spreading available soil in the sub-grade on a prepared surface, pulverizing, mixing the spread soil in place with rotavator with 3% slaked lime having minimum content of 70% of CaO, grading with motor grader and compacting with the road roller at OMC to the desired density to form a layer of improved sub- grade as per clause-402.)	Cum.	329.00
4.3	Lime Treated Soil for Sub-Base (Providing, laying and spreading soil on a prepared sub-grade, pulverizing, mixing the spread soil in place with rotavator with 3 % slaked lime with minimum content of 70% of CaO, grading with motor grader and compacting with the road roller at OMC to achieve at least 98%of the max dry density to form a layer of sub base as per clause-402.)	Cum.	488.00
4.4	Cement Flyash Treated Soil Sub-Base/ Base (Providing, laying and spreading soil on a prepared sub-grade, pulverizing, adding the designed quantity of cement and flyash to the spread soil, mixing in place with rotavator, grading with the motor grader and compacting with the road roller at OMC to achieve the desired unconfined compressive strength and to form a layer of sub-base/base as per clause-403.)	Cum.	686.00
4.5	Cement Flyash Treated Crushed Rock or combination as per clause 403.2 and table 400.4 in Sub-base/ Base (Providing, laying and spreading Material on a prepared sub-grade, adding the designed quantity of cement and flyash to the spread Material, mixing in place with rotavator, grading with the motor grader and compacting with the road roller at OMC to achieve the desired unconfined compressive strength and to form a layer of sub-base/base as per clause-403.)		
(i)	For Sub-Base course	Cum.	1688.00
(ii)	For Base course	Cum.	1500.00


(M)
**Executive Engineer,
Municipal Corporation,
KORBA (Chhattisgarh)**

Item No.	Descriptions	Unit	Rate (Rs.)
4.6	Making 50 mm x 50 mm Furrows (Making 50 mm x 50 mm furrows, at 45° inclination to the center line of the road and at one meter interval in the existing thin bituminous wearing coarse including sweeping and disposal of excavated material within 1000 meters lead)	Sqm	8.00
4.7	Inverted Choke (Construction of inverted choke by providing, laying, spreading and compacting screening B type/ coarse sand of specified grade in uniform layer on a prepared surface with motor grader and compacting with power roller etc)	Cum	601.00
4.8	Water Bound Macadam (Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per clause-404.)		
A	Grading- I (63 to 45 mm size aggregate)		
(i)	Using Screening Crushable type such as Moorum or Gravel	Cum	1449.00
(ii)	Using Screening Type-A (13.2mm Agg.)	Cum	1543.00
(iii)	Using Screening Type-B (11.2mm Agg.)	Cum	1619.00
B	Grading- II (53 to 22.4 mm size aggregate)		
(i)	Using Screening Crushable type such as Moorum or Gravel	Cum	1476.00
(ii)	Using Screening Type-B (11.2mm Agg.)	Cum	1647.00
4.9	Crushed Cement Concrete Sub-base / Base (Breaking and crushing of material obtained by breaking damaged cement concrete slabs to size range not exceeding 75 mm as specified in table 400.9 transporting the aggregates obtained from breaking of cement concrete slabs., laying and compacting for sub base/ base course as per clause 405.)	Cum	304.00
4.10	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 as per clause 406.)	Cum	1434.00
4.11	Construction of Median and Island with Soil Taken from Roadway Cutting (Construction of Median and Island above road level with approved material deposited at site from roadway cutting and excavation for drain and foundation of other structures, spread, graded and compacted as per clause-408.)	Cum	175.00
4.12	Construction of Median and Island with Soil Taken from Borrow Areas (Construction of median and Island above road level with approved material brought from borrow pits, spread, sloped and compacted as per clause-408).	Cum	257.00


Executive Engineer,
Municipal Corporation,
KORBA (Chhattisgarh)

Item No.	Descriptions		(Rs.)
4.13	Construction of Shoulders (Construction of shoulders as per clause 408 with selected soil from borrow pits / borrow areas having CBR not less than 12 and shall have L.L. and P.I. not more than 25% and 6% respectively, inclusive of all leads and lifts, including clearing and scrapping of existing surface, providing required cross fall, compacting, watering rolling and royalty charges etc. complete.		
A	With vibratory roller	Cum	291.00
B	With smooth wheeled roller	Cum	277.00
4.14	Providing paving to shoulders including dressing, leveling to camber and compacting the base etc. with :		
(i)	Hammer dressed 200 mm thick (average) stones, gaps to be filled with spalls hammered and river sand.	Sqm	534.00
(ii)	Bricks (laid in 100 to 112 mm thickness) of crushing strength not less than 70 kg/cm ² when tested to Indian Standards with joints filled with river sand.	Sqm	336.00
4.15	Providing & laying precast interlocking concrete blocks of minimum compressive strength of 300 kg/sq.cm and approved size, shape/ pattern over coarse sand bed of thickness upto 40 mm and joints thick filled with fine sand including leveling with surface vibrator, temping and sweeping etc. complete as per IRC-SP-63-2004.		
A)	60mm thick Plain precast interlock concrete block	Sqm	497.00
B)	80mm thick Plain precast interlock concrete block	Sqm	590.00
C)	80mm thick Polymer coated coloured precast interlock concrete blocks	Sqm	732.00
D)	60mm thick Polymer coated coloured precast interlock concrete blocks	Sqm	647.00
4.16	Footpaths and Separators (Construction of footpath/separator by providing a 150 mm compacted granular sub base as per clause 401 and 75 mm thick cement concrete base with PCC grade M-15, overlaid with precast cement concrete tiles 25mm thick fixed in 20mm thick cement mortar 1:3 including provision of all drainage arrangements but excluding kerb channel excluding cost of GSB.) as per clause 410.	Sqm	1667.00
4.17	Providing and fixing guard stones 200 x 200 x 900 mm made of precast RCC M-20 grade fixed at 300 mm into the ground in P.C.C. 1:3:6 blocks of size 400 x 400 x 400 mm and given two coats of paint with white and black bands including excavation.	Each	431.00
4.18	Providing and fixing kerb stones 100 mm thick and 600 mm wide chisel dressed cut stones fixed in CC 1:3:6 (block size 250 x 225 mm) including all excavation.	RM	298.00
4.19	Providing 50 mm thick flag stone flooring including bedding in CM 1:6 over 100 mm thick CC 1:3:6 including cement pointing 1:3 with pigment to match the colour of stone as per clause-410 including dressing of stones and all excavation complete.	Sqm	637.00


Item No.	Descriptions	Unit	Rate (Rs.)
4.20	Lime, Fly ash stabilized soil sub-base (Construction of Sub-base using lime-fly ash admixture with granular soil, free from organic matter/ deleterious material or clayey silts and low plasticity clays having PI between 5 and 20 and liquid limit less than 25 and commercial dry lime, slaked at site or pre-slaked with CaO content not less than 50%, fly ash to conform to gradation as per clause 4.3 of IRC: 88-1984, lime + fly ash content ranging between 10 to 30%, the minimum un-confined compressive strength and CBR value after 28 days curing and 4 days soaking to be 7.5kg/cm ² and 25% respectively, all as specified in IRC: 88:1984.)	Cum	503.00


 Executive Engineer,
 Municipal Corporation,
 KORBA (Chhattisgarh)

CHAPTER- 5
BASES AND SURFACE COURSES (BITUMINOUS)

Item No.	Descriptions	Unit	Rate (Rs.)
5.1	Prime coat (Providing and applying primer coat with oil based bitumen emulsion (SS-1, grade confirming to IS:8887) on prepared surface of granular Base including clearing of road surface and spraying primer using mechanical means as per clause 502.		
	(i) on WBM/WMM surface @0.85 Kg/sqm.	Sqm	64.00
	(ii) on Stabilized soil @ 1.05 Kg/sqm.	Sqm	79.00
5.2	Tack coat Providing and applying tack coat with bitumen emulsion (RS-1, grade confirming to IS:8887) using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per clause 503.		
	(i) Bituminous surface @ 0.25 kg /Sqm	Sqm	15.00
	(ii) Granular surfaces treated with primes @ 0.30 kg /Sqm	Sqm	17.00
	(iii) Cement concrete Pavement @ 0.35 kg/Sqm	Sqm	20.00
5.3	Bituminous Macadam (Providing and laying bituminous macadam as per clause 504 with mixed prepared in minimum 40-60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled to achieve the desired compaction)		
A	With sensor paver finisher		
(i)	for Grading-I(40 mm nominal maximum size, bitumen content 3.30%)	Cum	6210.00
(ii)	for Grading-II(19 mm nominal maximum size, bitumen content 3.40%)	Cum	6448.00
B	With mechanical paver finisher		
(i)	for Grading-I(40 mm nominal maximum size, bitumen content 3.30%)	Cum	6018.00
(ii)	for Grading-II(19 mm nominal maximum size, bitumen content 3.40%)	Cum	6255.00
5.4	Dense Bituminous Macadam (Providing and laying dense bituminous macadam with minimum 40-60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher 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.505 complete in all respects.)		
A	With sensor paver finisher		
(i)	for Grading-I (37.5 mm nominal size, bitumen content 4.0%)	Cum	7488.00
(ii)	for Grading-II(26.5 mm nominal size bitumen content 4.50%)	Cum	8148.00
(iii)	Add extra to the Rate of Dense Bituminous Macadam with bitumen, if Bitumen Grade VG-40 is used instead of Bitumen Grade VG-30 in the items above.	Cum	@4%
B	With mechanical paver finisher		

Item No.	Descriptions	Unit	Rate (Rs.)
(i)	for Grading-I (37.5 mm nominal size, bitumen content 4.0%)	Cum	7269.00
(ii)	for Grading-II(26.5 mm nominal size bitumen content 4.50%)	Cum	7916.00
(iii)	Add extra to the Rate of Dense Bituminous Macadam with bitumen, if Bitumen Grade VG-40 is used instead of Bitumen Grade VG-30 in the items above.	Cum	@4%
5.5	Bituminous Concrete (Providing and laying bituminous concrete with minimum 40-60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder @ 5.0 to 6.0% by weight of total mix 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)		
A	With sensor paver finisher		
(i)	for Grading-I(19 mm nominal size) with bitumen 5.5 %	Cum	9549.00
(ii)	for Grading I(19 mm nominal size) with CRMB 60- 5.5 %	Cum	9749.00
(iii)	for Grading II (13.2 mm nominal size) with bitumen 6.0 %	Cum	10092.00
(iv)	for Grading II (13.2 mm nominal size) with CRMB 60- 6.0 %	Cum	10311.00
(v)	Add extra to the Rate of Bituminous Concrete with bitumen, if Bitumen Grade VG-40 is used instead of Bitumen Grade VG-30 in the items above.	Cum	@4%
B	With mechanical paver finisher		
(i)	for Grading I (19 mm nominal size) with bitumen 5.5 %	Cum	9282.00
(ii)	for Grading I(19 mm nominal size) with CRMB 60- 5.5 %	Cum	9477.00
(iii)	for Grading II (13.2 mm nominal size) with bitumen 6.0 %	Cum	9812.00
(iv)	for Grading II (13.2 mm nominal size) with CRMB 60- 6.0 %	Cum	10026.00
(v)	Add extra to the Rate of Bituminous Concrete with bitumen, if Bitumen Grade VG-40 is used instead of Bitumen Grade VG-30 in the items above.	Cum	@4%
5.6	Surface Dressing (Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling with pneumatic type roller to give proper surface finish as per clause 509.		
(i)	19 mm nominal size chipping with bitumen @ 1.2kg/m ²	Sqm	99.00
(ii)	13 mm nominal size chipping with bitumen @ 1.0kg/m ²	Sqm	80.00
5.7	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 bitumen 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 tonne capacity, finished to required level and grades as per clause 510)		
(i)	Mechanical method using Bitumen and minimum 40-60 TPH capacity hot mix plant.-With mechanical paver finisher.	Sqm	122.00
(ii)	Mechanical method using cationic bitumen emulsion.	Sqm	159.00


 Executive Engineer,
 Municipal Corporation,
 KORBA (Chhattisgarh)

Item No.	Descriptions	Unit	Rate (Rs.)
5.8	Close Graded Premix Surfacing/Mixed Seal Surfacing (Mechanical means using minimum 40-60 TPH capacity of HMP. Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness using bitumen to the 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 tonne capacity, and finishing to required level and grade, complete as per clause 508)		
I.	With sensor paver finisher		
A	With bitumen		
i)	Type A (11.2 mm to 0.09 mm size aggregates)	Sqm	168.00
ii)	Type B (13.2 mm to 0.09 mm size aggregates)	Sqm	151.00
B	With CRMB-60		
i)	Type A (11.2 mm to 0.09 mm size aggregates)	Sqm	172.00
ii)	Type B (13.2 mm to 0.09 mm size aggregates)	Sqm	154.00
II.	With mechanical paver finisher		
A	With bitumen		
i)	Type A (11.2 mm to 0.09 mm size aggregates)	Sqm	163.00
ii)	Type B (13.2 mm to 0.09 mm size aggregates)	Sqm	146.00
B	With CRMB-60		
i)	Type A (11.2 mm to 0.09 mm size aggregates)	Sqm	166.00
ii)	Type B (13.2 mm to 0.09 mm size aggregates)	Sqm	149.00
5.9	Seal Coat (Providing and laying seal coat for sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall including rolling and finishing using Type A and B seal coats as per clause 511)		
A	Type-'A' (Providing and laying liquid seal coat comprising of an application of a layer of binder followed by a cover of stone chips of 6.7mm size)	Sqm	62.00
B	Type-'B'		
(i)	Providing and laying of premix sand seal coat with minimum 40-60 TPH HMP of appropriate capacity using crushed stone chipping (passing through 2.36mm size sieve) and with bitumen as binder.	Sqm	47.00
(ii)	Providing and laying of premix sand seal coat using crushed stone chipping (passing through 2.36mm size sieve) and with cationic emulsion as binder, by mechanical means.	Sqm	67.00
5.10	Mastic Asphalt (Providing and laying 25mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-39 prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with fine-grained hard stone chipping of 13.2 mm nominal size pre- coated with bitumen at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 100°C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause-516.)	Sqm	511.00

Item No.	Descriptions	Unit	Rate (Rs.)
5.11	Mastic Asphalt (Providing and laying 12mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-39, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with fine-grained hard stone chipping of 9.5 mm nominal size pre-coated with bitumen at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 100°C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause-516.)	Sqm	297.00
5.12	Slurry Seal Providing and laying slurry seal consisting of a mixture of mineral aggregates, Portland cement filler, bituminous emulsion and water on a road surface including cleaning of surface, mixing of slurry seal in a suitable mobile plant, laying and compacting to provide even riding surface complete as per clause 512 for following types as given in table 500-25.		
(i)	Type-I (Thickness 2 - 3 mm)	Sqm	53.00
(ii)	Type-II (Thickness 4 - 6 mm)	Sqm	72.00
(iii)	Type-III (Thickness 6 - 8 mm)	Sqm	83.00
5.13	Fog Spray (Providing and applying low viscosity bitumen emulsion SS-1 for sealing cracks less than 3 mm wide or incipient fretting or disintegration in an existing bituminous surfacing complete as per clause 513.	Sqm	44.00
	Add extra if blinded with grit of 3 mm size & under coated with 2% of the emulsion by weight.	Sqm	5.00
5.14	Crack Prevention Courses		
(i)	Stress Absorbing Membrane (SAM) crack width less than 6 mm (Providing and laying of a stress absorbing membrane over a cracked road surface, with crack width below 6 mm after cleaning with a mechanical broom, using modified binder sprayed at the rate of 9 kg per 10 sqm and spreading 5.6 mm crushed stone aggregates @ 0.11 cum per 10 sqm with hydraulic chip spreader, sweeping the surface for uniform spread of aggregates and surface finished complete as per clause 517)	Sqm	59.00
(ii)	Stress Absorbing Membrane (SAM) with crack width 6 mm to 9 mm (Providing and laying of a stress absorbing membrane over a cracked road surface, with crack width 6 to 9 mm after cleaning with a mechanical broom, using modified binder, sprayed at the rate of 11 kg per 10 sqm and spreading 11.2 mm crushed stone aggregates @ 0.12 cum per 10 sqm, sweeping the surface for uniform spread of aggregates and surface finished complete as per clause 517)	Sqm	75.00
(iii)	Stress Absorbing Membrane (SAM) crack width above 9 mm and cracked area above 50% (Providing and laying a single coat of a stress absorbing membrane over a cracked road surface, with crack width above 9 mm and cracked area above 50 % after cleaning with a mechanical broom, using modified binder sprayed at the rate of 15 kg per 10 sqm and spreading 11.2 mm crushed stone aggregates @ 0.12 cum per 10 sqm, sweeping the surface for uniform spread of aggregates and surface finished complete as per clause 517)	Sqm	100.00

Item No.	Descriptions	Unit	Rate (Rs.)
5.15	Open-Graded Premix Surfacing (By manual means) (Providing, laying and rolling of open-graded premix surfacing of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates using bitumen/cationic emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing, laying and rolling with a smooth wheeled roller 8-10 tonne capacity, finished to required level and grades. Work shall be executed as per clause 510 except laying by manual means instead of mechanical mixing and laying.)		
(i)	Case – I:- Using Bitumen	Sqm	120.00
(ii)	Case –II :- Using Bitumen Emulsion MS grade	Sqm	161.00
5.16	Seal Coat Type-B (By manual means) (Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type-B seal coat using crushed stone chipping passing through 2.36mm size sieve, using bitumen / cationic emulsion as binder. Work shall be executed as per clause 511 except laying by manual means instead of mechanical mixing and laying.)		
(i)	Case – I:- Using Bitumen	Sqm	45.00
(ii)	Case –II :- Using cationic Bitumen Emulsion	Sqm	67.00
5.17	Microsurfacing Type-II: Providing and laying 4 to 6 mm thick microsurfacing layer as wearing course in single layer using crushed aggregates @ 9.0 Kg/Sqm manufactured Sand (Crushed stone dust with coarse aggregates as per required grading) with specific size as per table-3 of IRC:SP:81-2008 using Modified Cationic Bitumen @13.5% by weight of aggregates as per Table 8 of IRC:SP:81-2008, Break Control Additive @2% by weight of aggregate, purified water with pH 6-7 @ 12% by weight of aggregate & mineral filler @ 2.0% by weight of aggregate using specialized microsurfacing Paver finisher and other materials, machinery etc complete as per clause 514).	Sqm	181.00
5.18	Microsurfacing Type-III: Providing and laying 6 to 8 mm thick microsurfacing layer as wearing course in single layer using crushed aggregates @ 12.0 Kg/Sqm manufactured Sand (Crushed stone dust with coarse aggregates as per required grading) with specific size as per table-3 of IRC:SP:81-2008 using Modified Cationic Bitumen @13% by weight of aggregates as per Table 8 of IRC:SP:81-2008, Break Control Additive @2% by weight of aggregate, purified water with pH 6-7 @ 12% by weight of aggregate & mineral filler @ 2.0% by weight of aggregate using specialized microsurfacing Paver finisher and other materials, machinery etc complete as per clause 514).	Sqm	215.00
5.19 [#]	Providing and laying leveling course / profile corrective course with bituminous macadam		
	With minimum 40-60 TPH capacity hot mix plant using crushed aggregates of Grading-1 premixed with bituminous binder @ 3.1% transported to site and laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clause-501.6 and 501.7 to achieve the desired compaction complete in all respect and as per relevant clause section 500.		

Item No.	Descriptions	Unit	Rate (Rs.)
A	With sensor paver finisher	Cum	5601.00
B	With mechanical paver finisher	Cum	5432.00
5.20 [#]	Semi-Dense Bituminous Concrete (Providing and laying semi-dense bituminous concrete with minimum 40-60 TPH capacity using crushed aggregates of specified grading, premixed with bituminous binder @ 4.50 to 5 % 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 MORT&H specification clause No. 508 complete in all respects)		
A	With sensor paver finisher		
(i)	for Grading I (13 mm nominal size) with bitumen 4.5 %	Cum	8072.00
(ii)	for Grading I (13 mm nominal size) with CRMB 60- 4.5 %	Cum	8234.00
(iii)	for Grading II (10 mm nominal size) with bitumen 5.0 %	Cum	8715.00
(iv)	for Grading II (10 mm nominal size) with CRMB 60 - 5.0%	Cum	8895.00
B	With mechanical paver finisher		
(i)	for Grading I (13 mm nominal size) with bitumen 4.5 %	Cum	7840.00
(ii)	for Grading I (13 mm nominal size) with CRMB 60- 4.5 %	Cum	7998.00
(iii)	for Grading II (10 mm nominal size) with bitumen 5.0 %	Cum	8468.00
(iv)	for Grading II (10 mm nominal size) with CRMB 60 - 5.0%	Cum	8644.00
5.21 [*]	Recycling of Bituminous Pavement with Central Recycling Plant		
	Recycling pavement by cold milling of existing bituminous layers, planning the surface after cold milling, reclaiming excavated material to the extent of 30 percent of the required quantity, hauling and stock piling the reclaimed material near the central recycling plant after carrying out necessary checks and evaluation, adding fresh material @ 70 percent of required quantity including rejuvenators as required, mixing in a hot mix plant of minimum 100-120TPH capacity, transporting and laying at site and compacting to the required grade, level and thickness, all as specified in clause 504 and 519. Bitumen to be added as per requirement of the item in fresh material and @ 60 percent of the requirement of fresh mix for the quantity of recycled material.		
	Bituminous Macadam		
A	With sensor paver finisher		
(i)	for Grading-I(40 mm nominal maximum size, bitumen content 3.30%)	Cum	6057.00
(ii)	for Grading-II(19 mm nominal maximum size, bitumen content 3.40%)	Cum	6251.00
B	With mechanical paver finisher		
(i)	for Grading-I(40 mm nominal maximum size, bitumen content 3.30%)	Cum	5898.00
(ii)	for Grading-II(19 mm nominal maximum size, bitumen content 3.40%)	Cum	6068.00

Item No.	Descriptions	Unit	Rate (Rs.)
5.22 [*]	Recycling of Bituminous Pavement with Central Recycling Plant		
	Recycling pavement by cold milling of existing bituminous layers, planning the surface after cold milling, reclaiming excavated material to the extent of 30 percent of the required quantity, hauling and stock piling the reclaimed material near the central recycling plant after carrying out necessary checks and evaluation, adding fresh material @ 70 percent of required quantity including rejuvenators as required, mixing in a hot mix plant of minimum 100-120TPH capacity, transporting and laying at site and compacting to the required grade, level and thickness, all as specified in clause 505 and 519. Bitumen to be added as per requirement of the item in fresh material and @ 60 percent of the requirement of fresh mix for the quantity of recycled material.		
	Dense Bituminous Macadam		
A	With sensor paver finisher		
(i)	for Grading-I (37.5 mm nominal size, bitumen content 4.0%)	Cum	7182.00
(ii)	for Grading-II(26.5 mm nominal size bitumen content 4.50%)	Cum	7892.00
(iii)	Add extra to the Rate of Dense Bituminous Macadam with bitumen, if Bitumen Grade VG-40 is used instead of Bitumen Grade VG-30 in the items above.	Cum	@4%
B	With mechanical paver finisher		
(i)	for Grading-I (37.5 mm nominal size, bitumen content 4.0%)	Cum	6997.00
(ii)	for Grading-II(26.5 mm nominal size bitumen content 4.50%)	Cum	7519.00
(iii)	Add extra to the Rate of Dense Bituminous Macadam with bitumen, if Bitumen Grade VG-40 is used instead of Bitumen Grade VG-30 in the items above.	Cum	@4%

Note:-

- (*) This item to be executed with prior permission of Chief Engineer.
- (#) These items can be used for construction of roads other than National Highways. The works shall be executed as per the norms and methodology specified in MORT&H "Specifications for Road & Bridge works" (IVth Revision).



**Executive Engineer,
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KORBA (Chhattisgarh)**