

**GOVERNMENT OF CHHATTISGARH**  
**URBAN ADMINISTRATION AND DEVELOPEMENT**  
**DEPARTMENT**




**NAGAR PANCHAYAT LAWAN**  
**DETAILED PROJECT REPORT OF**  
**CONSTRUCTION OF GAURAV PATH FROM MAIN**  
**ROAD TO MAHAMAYA MANDIR AT**  
**NAGAR PANCHAYAT LAWAN**  
**DISTRICT - BALODABAZAR-BHATAPARA (C.G.)**  
  
**ESTIMATED COST – Rs. 161.64 LACS**


**GANPATI CONSULTANCY SERVICES**

ENGINEERING AND ARCHITECTURAL CONSULTANT  
SHOP NO. 409 EDGE COMPLEX, MOWA, RAIPUR  
CONTACT NO. -9753714300

तकनीकी स्वीकृति अथवा अनुदान प्राप्ति हेतु प्रेषित प्रस्ताव के संबंध में चेक लिस्ट

क्र.	विवरण	अंगुलमनक/संलग्नक
1.	कार्य का नाम	नगर पंचायत लवन में गैंग रोड से महमाया मंदिर तक गौरव पथ का निर्माण कार्य ।
2.	कार्य का स्थल/वार्ड क्र./जोन क्र.	वार्ड क्र.
3.	कार्य की विद्यमान स्थिति	नवीन प्रस्ताव
4.	विस्तृत तकनीकी प्रतिवेदन (कार्य की आवश्यकता )	संलग्न
5.	1.प्राक्कलन राशि	रु. 161.64 लाख
6.	2. योजना के प्राक्कलन का विवरण	
6.	1. मद का नाम	अधो संरचना /संज्यप्रवर्तित
	2.लखा शीर्ष तथा बजट प्रावधान की उपलब्धता	
7	1.कार्य के लिए सक्षम प्राधिकारी द्वारा दी गई सैद्धांतिक सहमति	संलग्न
	2.परिषद/सागान्य सभा से अनुमोदन	संलग्न
8	1.साईट प्लान सहित आवश्यक मानचित्र।	संलग्न
	2. संरचना की ड्राईंग व डिजाईन	संलग्न
9.	1.भूमि का प्रकार -	शासकीय
	2. भूमि स्वामित्व व हस्तांतरण	आवश्यक नहीं
10.	प्राक्कलन में प्रयुक्त SOR के ITEMS के संदर्भ का उल्लेख है/नहीं	P W D 2015से प्रभावशील
11	यदि कोई NON SOR आयटम लिया गया हो तो विवरण दे।	
12	विकास योजना में प्रस्तावित भू-उपयोग	गौरव पथ का निर्माण कार्य ।
13	नगर तथा ग्राम निवेश से ले-आउट अनुमोदन	आवश्यक नहीं
14	कार्यस्थल अविवादित एवं निकाय की भूमि का, स्वामित्व प्रमाण पत्र	आवश्यक नहीं
15	प्रस्तावित कार्य स्थल पर पहुच मार्ग है/नहीं	है
16	प्रस्तावित कार्य स्थल पर अतिक्रमण/एच.टी.लाईन/एल.टी.लाईन/टेलीफोन पोल/झाड के प्रभाव से मुक्त है या नहीं	है
17	कार्य स्थल नाला/निचली भू-सतह/वाटर लागत क्षेत्र से प्रभावित होने संबंधी प्रतिवेदन	नहीं है
18	भवन निर्माण किये जाने की स्थिति में पानी निकासी व्यवस्था	पानी निकासी है
19	भवन निर्माण की स्थिति में नि:शक्तजनों के लिये शासन के निर्देशानुसार उपयुक्त सुविधायें का प्रावधान	प्रावधान है
20	उक्त कार्य पूर्व में कब बना/रिनोवेशन हुआ या नहीं	नवीन प्रस्ताव
21	पूर्णता अथवा उपयोगिता प्रमाण पत्र	आवश्यक नहीं
22	अन्य आवश्यक जानकारी	उक्त कार्य नगर पंचायत के विकास हेतु अति आवश्यक है


  
 उप अधिपति  
 नगर पंचायत, लवन

  
 मुख्य नगर पारिषद अभियंता  
 नगर पंचायत लवन  
 नगर विकास विभाग - 1

कार्यालय नगर पंचायत लवन , जिला - बलौदाबाजार - भाटापारा (छ.ग.)

वचन बद्धता प्रमाण पत्र

प्रमाणित किया जाता है कि नगर पंचायत लवन के विकास हेतु अघो संरचना /राज्यप्रवर्तित योजना अंतर्गत प्राक्कलन तैयार की गई है। अनुदान स्वीकृत होने पर राशि उसी मद में व्यय की जावेगी। इस कार्य हेतु अन्य किसी योजना में प्रस्ताव प्रेषित नहीं की गई है।

  
उप अधिकारी  
नगर पंचायत, लवन  
जिला-बलौदाबाजार (छ.ग.)


मुख्य नगर पालिका अधिकारी

कार्यालय नगर पंचायत लवन , जिला - बलौदाबाजार - भाटापारा (छ.ग.)

भूमि स्वामित्व का प्रमाण पत्र

प्रमाणित किया जाता है कि प्रस्तावित योजना हेतु चयनित भूमि शासकीय नगर पंचायत लवन के आधिपत्य एवं प्रबंधन में है। जिसके रख रखाव की सम्पूर्ण जिम्मेदारी नगर पंचायत की है।

  
उप अधिकारी  
उपअभिधता  
नगर पंचायत, लवन  
जिला-बलौदाबाजार (छ.ग.)

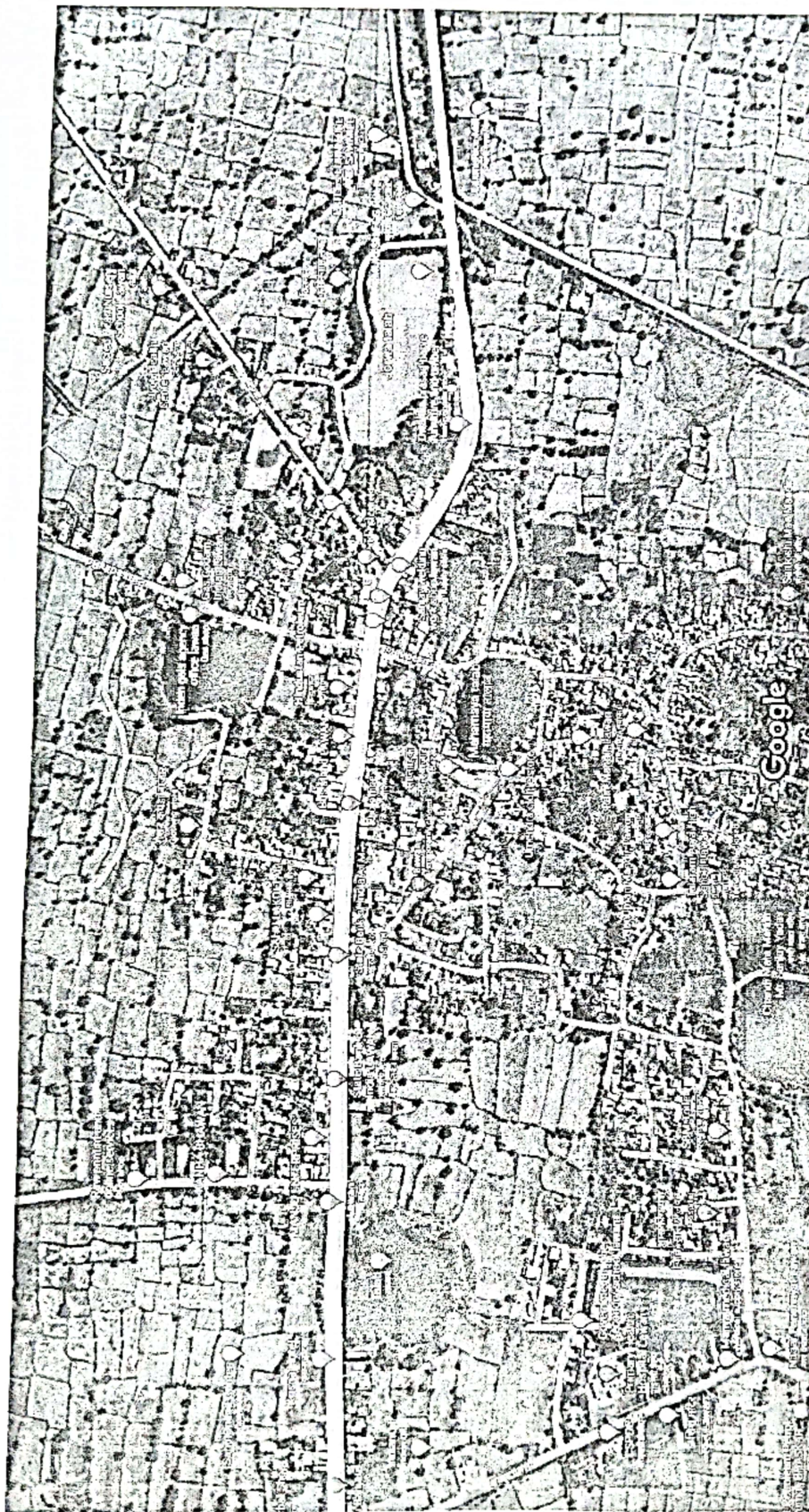
  
मुख्य नगर पालिका अधिकारी  
मुख्य नगर पालिका अधिकारी  
नगर पंचायत लवन  
जिला-बलौदाबाजार - भाटापारा (छ.ग.)

**NAGAR PANCHAYAT LAWAN**  
**CONSTRUCTION OF GAURAV PATH FROM MAIN ROAD TO MAHAMAYA**  
**MANDIR AT NAGAR PANCHAYAT LAWAN**  
**DISTRICT - BALODABAZAR-BHATAPARA (C.G.)**  
**DETAILED PROJECT REPORT**

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7	Drawing		

Google Maps lawan



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<https://www.google.com/maps/search/lawan/@21.6437722,82.3411349,1067m/data=!3m1!1e3?entry=itu>

**NAGAR PANCHAYAT LAWAN DIST :- BALODABAZAR-BHATAPARA**  
**CONSTRUCTION OF GAURAV PATH FROM MAIN ROAD TO MAHAMAYA MANDIR AT**  
**NAGAR PANCHAYAT LAWAN**

**GENERAL ABSTRACT**

S.N.	NAME OF WORK	AMOUNT	REMARKS
1	2	3	4
1	Construction of CC Road	92.54 ✓	
2	Construction of ROAD DIVIDER	22.46 ✓ 22.60	
3	Construction of RCC Culvert 2 No.	9.16 ✓ 9.14	
4	Construction of RCC Drain	23.00 ✓ 22.96	
5	Street Lighting Work	9.05 ✓	
6	Landscaping Work	2.26 ✓	
	<b>TOTAL</b>	158.47 ✓ 158.55	
	Add 2% for Work, Charge & cont. & Consultancy Fee	3.17 ✓	
	<b>G TOTAL ( RS. IN LAKH )</b>	161.64 ✓ 161.72 lac	



Sub Engineer  
 Nagar Panchayat Lawan  
 नगर पंचायत, लवन  
 जिला बलौदाबाजार (छ.ग.)  
 के शर्तों के अधीन जारी

Chief Municipal Officer  
 नगर प्रशासन एवं विकास  
 रायपुर (छ.ग.)  
 दि. 20/7/23

Technically Approved For Rs 161.72 lac  
 In Words Rs. One core sixty one thousand lac  
 is Here By Accorded for Works .....  
 Gaurav path main road to mahamaya  
 Mandir  
 B Name Lawan Dist. BBP  
 T.S. No. 2421 Date 20/7/23

Sub. Engineer  
 Urban Administration & Development  
 (Tech Cell) Raipur (C.G.)

अधीक्षक अभियंता  
 नगरीय प्रशासन एवं विकास  
 रायपुर (छ.ग.)  
 2007-2023

**NAGAR PANCHAYAT LAWAN DIST :- BALODABAZAR-BHATAPARA**  
**CONSTRUCTION OF GAURAV PATH FROM MAIN ROAD TO MAHAMAYA MANDIR AT NAGAR**  
**PANCHAYAT LAWAN**

**ABSTRACT OF COST**

( Road SOR )

S.N.	ITEM OF WORK	Qty.	RATE	UNIT	AMOUNT
ItemN.1 2.1 Road	Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all lifts and up to a lead of 1000 mtrs and earth filling in the depression/pit and as per relevant clauses of section-200 for :-				
i)	Girth from 300 mm to 600 mm	2	197	Each	394
ii)	Girth beyond 600 mm to 900 mm	1	353	Each	353
iii)	Girth beyond 900 mm to 1800 mm	0	684	Each	0
iv)	Girth above 1800 mm	0	1295	Each	0
ItemN.2 2.3 Road	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings 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 used or auctioned up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness if required and as per relevant clauses of section- 200.				
i)	In area of light jungle	0.17	40680	Hact.	6834
ItemN.3 2.5 Road	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meters, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.				
A	Bituminous courses-existing	166.95	542.00	Sqm	90487
ItemN.4 3.1 Road	Excavation in Soil (by Manual Means.) Excavation for roadway in soil using including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300	1633.80	140.00	Cum	228732
ItemN.5 3.14 Road	Construction of Embankment with Material Deposited from Roadway Cutting (Construction of embankment with approved materials having C.B.R.>5 (unless specified otherwise in the contract) deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2)	0.00	80.00	cum	0
ItemN.6 3.12 Road	Construction of embankment with Material Obtained from Borrow Pits/Borrow Area (Construction of embankment with approved material/selected soil having C.B.R.>5 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)	0.00	223.00	cum	0



ItemN.7 3.1 Road	Compacting Original Ground Compacting ( i )Original Ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the subgrade level, watered, graded and compacted in layers to meet requirement of table 300-2 for sub grade construction	756.00	50.00	Cum	37800
ItemN.8 3.13 Road	Construction of sub-grade with Material Obtained from Borrow Pits/Borrow Area (Construction of sub-grade with approved material/selected soil having C.B.R.>8 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)	0.00	250.00	cum	0
ItemN 9 4.1Road	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 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.				
(a)	For Lower Sub-base with				
(i)	Grading-III Material	310.80	1423.00	CUM	442268.
(b)	For Sub-base cum drainage layer or upper sub-base with				
(i)	Grading-V Material	756.00	1372.00	CUM	1037232
ItemN.10 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.)	567.00	1434.00	Cum	813078



ItemN11 6.1	Dry Lean Cement Concrete Sub-base as per IRC:SP-49 (Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing as per clause 601.)				0
		567.00	2332.0	Cum	1322244
ItemN12 6.7	Providing and laying Un- reinforced Cement Concrete without Dowel bars including formwork and expansion, contraction & longitudinal joints as per design and as per IRC-62-2014, over a prepared base as per approved mix desing and fininsing to lines and grade as per Drawing for pavement thickness less than 200 mm in Low Volume Roads.				0
	PCC Grade M30 with minimum cement content @375kg/cum	945.00	4391.0	Cum	4149495
ItemN13 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 smooth wheeled roller	54.00	277.0	CUM	14958
ItemN14 8.13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35-1997. The finished surface to be level, uniform and free from streaks and holes.)	252.00	707.0	Sqm	178164
ItemN15 8.17	Surface Drains in Ordinary Rock (Construction of unlined surface drain of average cross sectional area 0.4 sqm in ordinary rock to specified lines, grades, levels and dimensions as per approved design and to the requirement of clause 301 & 309. Excavated material to be used in embankment at site.)	0.00	89.0	M	0



ItemN.16 8.11 (ii)	Painting Lines, Dashes, Arrows etc on Roads in Two Coats on New Work (Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust (ii) Up to 10 cm in width	4200.00	82.00	sqm	344400
ItemN.17 8.32	Road Markers/Road Stud with Lens Reflector (Providing and fixing of road stud 100x 100 mm, die cast in aluminum, resistant to corrosive effect of salt and grit, fitted with lens reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BIS:873, part-IV:1973)	100.00	267	Each	26700
ItemN.18 8.45	8.45 Providing and fixing Solar Blinker Light 300 mm dia, LED Aspect made of FRP/Poly carbonate with battery backup fitted on 150 mm dia MS pipe - 3.0 metre long from the ground level, firmly fixed to the ground by mean of properly designed foundation with M-15 grade cement concrete 60cm x 60cm x 60cm, below ground level.	4.00	22500	EACH	90000
ItemN.19 8.27	Tubular Steel Railing on Medium Weight steel channel (ISMC series) 100mm x 50mm (Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 meters high above ground, 2 m centre to centre, complete as per approved drawings)	60.00	1655	METER	99300
ItemN.20 8.24	Boundary pillar (Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per clause 807)	20.00	384	EACH	7680
ItemN21 8.33	Traffic Cone (Provision of red fluorescent with white reflective sleeve traffic cone made of low density polyethylene (LDPE) material with a square base of 390 x 390 x 35 mm and a height of 770 mm, 4 kg in weight, all as per BIS: 873)	50.00	645.0	Each	32250
ItemN22 8.1	Cast in Situ Cement Concrete M20 kerb (Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in PCC M20 grade on PCC M10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 409)	200.00	207.0	Each	41400



ItemN.23 8.44	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 slopes to toe of slopes in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipes as per IRC: 982011, bedded on a 0.3 m thick layer of granular material free of rock pieces , outer to outer distance of pipes 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:98-2011 and approved drawings.	60.00	553.0	RM	33180
ItemN.24 8.19	Providing & Fixing Delineator made of M.S. Hollow Rectangular Pipe (Conforming to IS: 4923) of cross section 96mmx 48mm of 1.20 meter length. The top of the hollow pipe, welded and closed with 16 gauge M.S. Sheet. The height of the Delineator above ground level should be between 0.8 meter and 1.0 meter. The bottom of the delineator should be provided with holdfast of length 15cm on each side. Delineator should be painted with coat of Zinc Chromate stoving Prime and two coats of Black Stove Enamel (Oven Baked)paint with 3nos. 15 cm bands of white Retro-reflective Sheeting of Engineering Grade pasted around the pipe and 2 Nos. High Intensity Grade Retro-reflective Sheeting of size 8 cm x 10cm pasted on the top of each side of Delineator and treated With HLVA & fixing the same in M-15 grade concrete block of size 30x30x30cms including transportation etc. complete. The construction and placement of the delineator must be as per IRC: 79.	100.00	1913	Each	191300
ItemN.25 8.44	Retro- reflectorized Traffic signs (Providing and fixing of retroreflectorized cautionary, mandatory and informatory sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 1.5 mm thick supported on a mild steel frame of size 40 x 40 x 5 mm and mild steel angle iron post 75 mm x75 mm x 6mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45cm x 60cm, 60 cm below ground level as per approved drawing)				0
(i)	90 cm equilateral triangle	2	5170	Each	10340
(ii)	60 cm equilateral triangle	2	3128	Each	6256
(iv)	80 cm x 60 cm rectangular	4	6533	Each	26132
(vi)	60 cm x 60 cm square	0	5272	Each	0
(vii)	90 cm high octagon	0	8552	Each	0



ItemN.26 8.5	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retroreflectorized sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60cm, 60cm below ground level as per approved drawing)				
	Road Side	0.81	12124	Sqm	9820
ItemN.27 8.6	Direction and Place Identification signs with size more than 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorized sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel angle iron post 75mm x 75mm x 6mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cm x 45cm x 60cm, 60cm below ground level as per approved drawing)				
	near school/hospital	1.08	12426	Sqm	13420
	Total Rs.				9254218
	Say Rs. In Lacks				92.54



Sub Engineer  
Nagar Panchayat Lawan  
Dist.-Baroda Bazar-  
नगर पंचायत लावन  
जिला-बलौदाबाजार (छ.ग.)

Chief Municipal Officer  
मुख्य नगर पालिका अधिकारी  
Nagar Panchayat Lawan  
Dist.-Baroda Bazar- Bhatapara CG.  
जि. बलौदाबाजार-भटपारा (छ.ग.)

**NAGAR PANCHAYAT LAWAN DIST :- BALODABAZAR-BHATAPARA**

**CONSTRUCTION OF GAURAV PATH FROM MAIN ROAD TO MAHAMAYA MANDIR AT NAGAR  
PANCHAYAT LAWAN  
DETAILED ESTIMATE**

DETAILED ESTIMATE						
S.N.	ITEM OF WORK	No.	L	B	D	Qty.
ItemN.1 2.1 Road	Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all lifts and up to a lead of 1000 mtrs and earth filling in the depression/pit and as per relevant clauses of section-200 for :-					
i)	Girth from 300 mm to 600 mm	2				2
ii)	Girth beyond 600 mm to 900 mm	1				1
iii)	Girth beyond 900 mm to 1800 mm	0				0
iv)	Girth above 1800 mm	0				0
ItemN.2 2.3 Road	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings 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 used or auctioned up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness if required and as per relevant clauses of section- 200.					
	In area of light jungle	2	420	2.00		1680.00
						1680.00
						0.17
ItemN.3 2.5 Road	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meters, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.					
A	Bituminous courses-existing	1	420	5.30	0.08	166.95
ItemN.4 3.1 Road	Excavation in Soil (by Manual Means.) Excavation for roadway in soil using including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto1000 meters as per relevant clauses of section 300					
	( 0.55 +0.45+0.15)/3=	2	420	4.50	0.35	1323.00
		2	420	1.85	0.20	310.80
				Total		1633.80
ItemN.5 3.14 Road	Construction of Embankment with Material Deposited from Roadway Cutting (Construction of embankment with approved materials having C.B.R.>5 (unless specified otherwise in the contract) deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2)					
	0.89 + 0.20 = /2 =	0.55	0	420	4.56	0.55
						0.00



	Utilization of Execavete material				Total	0.00
<u>ItemN.6</u> <u>3.12Road</u>	Construction of embankment with Material Obtained from Borrow Pits/Borrow Area (Construction of embankment with approved material/selected soil having C.B.R.>5 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)					0.00
<u>ItemN.7</u> <u>3.1 Road</u>	Compacting Original Ground Compacting ( i )Original Ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the subgrade level , watered, graded and compacted in layers to meet requirement of table 300-2 for sub grade construction					
		2	420	4.50	0.20	756.00
				Total		756.00
<u>ItemN.8</u> <u>3.13 Road</u>	Construction of sub-grade with Material Obtained from Borrow Pits/Borrow Area (Construction of sub-grade with approved material/selected soil having C.B.R.>8 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)					
		0	420	6.55	0.25	0.00
				Total		0.00
<u>ItemN 9</u> <u>4.1Road</u>	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 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.					
(a)	For Lower Sub-base with					
(i)	Grading-III Material	2	420	1.85	0.20	310.80
				Total		310.80
(b)	For Sub-base cum drainage layer or upper sub-base with					
(i)	Grading-V Material	2	420	4.50	0.20	756.00
				Total		756.00



ItemN.10 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.)					
		2	420	4.50	0.15	567.00
				Total		567.00
ItemN11 6.1	Dry Lean Cement Concrete Sub-base as per IRC:SP-49 (Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing as per clause 601.)					
		2	420	4.50	0.15	567.00
				Total		567.00
ItemN12 6.7	Providing and laying Un- reinforced Cement Concrete without Dowel bars including formwork and expansion, contraction & longitudinal joints as per design and as per IRC-62-2014, over a prepared base as per approved mix desing and fininsing to lines and grade as per Drawing for pavement thickness less than 200 mm in Low Volume Roads.					
	PCC Grade M30 with minimum cement content @375kg/cum					
		2	420	4.50	0.25	945.00
				Total		945.00
ItemN13 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 smooth wheeled roller					
	$2.03 + 1.50 = /2 = 1.77$	2	100	0.60	0.45	54.00
				Total		54.00



ItemN15 8.17	Surface Drains In Ordinary Rock (Construction of unlined surface drain of average cross sectional area 0.4 sqm in ordinary rock to specified lines, grades, levels and dimensions as per approved design and to the requirement of clause 301 & 309. Excavated material to be used in embankment at site.)	0	100			0.00
ItemN14 8.13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35-1997. The finished surface to be level, uniform and free from streaks and holes.)	6	420		0.10	252.00
				Total		252.00
ItemN.16 8.11 (ii)	Painting Lines, Dashes, Arrows etc on Roads in Two Coats on New Work (Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust (ii) Up to 10 cm in width	50	6	14.00		4200.00
ItemN.17 8.32	Road Markers/Road Stud with Lens Reflector (Providing and fixing of road stud 100x 100 mm, die cast in aluminum, resistant to corrosive effect of salt and grit, fitted with lens reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BIS:873, part-IV:1973)	100				100
ItemN.18 8.45	8.45 Providing and fixing Solar Blinker Light 300 mm dia, LED Aspect made of FRP/Poly carbonate with battery backup fitted on 150 mm dia MS pipe - 3.0 metre long from the ground level, firmly fixed to the ground by mean of properly designed foundation with M-15 grade cement concrete 60cm x 60cm x 60cm, below ground level.	4				4
ItemN.19 8.27	Tubular Steel Railing on Medium Weight steel channel (ISMC series) 100mm x 50mm (Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 meters high above ground, 2 m centre to centre, complete as per approved drawings)	2	30			60
ItemN.20 8.24	Boundary pillar (Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per clause 807)	2	30	/	3	20
ItemN21 8.33	Traffic Cone (Provision of red fluorescent with white reflective sleeve traffic cone made of low density polyethylene (LDPE) material with a square base of 390 x 390 x 35 mm and a height of 770 mm, 4 kg in weight, all as per BIS: 873)	50				50



ItemN.22 8.1	Cast in Situ Cement Concrete M20 kerb (Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in PCC M20 grade on PCC M10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 409)	2	100			200
ItemN.23 8.44	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 slopes to toe of slopes in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipes as per IRC: 982011, bedded on a 0.3 m thick layer of granular material free of rock pieces , outer to outer distance of pipes 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:98-2011 and approved drawings.	3	20			60
ItemN.24 8.19	Providing & Fixing Delineator made of M.S. Hollow Rectangular Pipe (Conforming to IS: 4923) of cross section 96mmx 48mm of 1.20 meter length. The top of the hollow pipe, welded and closed with 16 gauge M.S. Sheet. The height of the Delineator above ground level should be between 0.8 meter and 1.0 meter. The bottom of the delineator should be provided with holdfast of length 15cm on each side. Delineator should be painted with coat of Zinc Chromate stoving Prime and two coats of Black Stove Enamel (Oven Baked)paint with 3nos. 15 cm bands of white Retro-reflective Sheeting of Engineering Grade pasted around the pipe and 2 Nos. High intensity Grade Retro-reflective Sheeting of size 8 cm x 10cm pasted on the top of each side of Delineator and treated With HLVA & fixing the same in M-15 grade concrete block of size 30x30x30cms including transportation etc. complete. The construction and placement of the delineator must be as per IRC: 79.	2	50			100
ItemN.25 8.44	Retro- reflectorized Traffic signs (Providing and fixing of retroreflectorized cautionary, mandatory and informatory sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 1.5 mm thick supported on a mild steel frame of size 40 x 40 x 5 mm and mild steel angle iron post 75 mm x75 mm x 6mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45cm x 60cm, 60 cm below ground level as per approved drawing)					
(i)	90 cm equilateral triangle	1	2			2
(ii)	60 cm equilateral triangle	1	2			2
(iv)	80 cm x 60 cm rectangular	2	2			4
(vi)	60 cm x 60 cm square	0	9			0
(vii)	90 cm high octagon	0	4			0



ItemN.26 8.5	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retroreflectorized sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60cm, 60cm below ground level as per approved					
	Road Side	1	0.9	0.9		0.81
ItemN.27 8.6	Direction and Place Identification signs with size more than 0.9 sqm size board. (Providing and erecting direction and place identification retro- reflectorized sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel angle iron post 75mm x 75mm x 6mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cm x 45cm x 60cm, 60cm below ground level as per approved drawing)					
	near school/hospital	1	1.2	0.9		1.08

Er. Sandeep Kumar  
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Rajpur 975 37 14300  
M19433063  
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RAIPUR

Sub Engineer  
Nagar Panchayat Lawan  
Dist.- Balodabazar- BhataparaCG.  
नगर पंचायत, लवन  
जिला-बलौदाबाजार (छ.ग.)

Chief Municipal Officer  
Nagar Panchayat Lawan  
Dist.- Balodabazar- BhataparaCG.  
मुख्य नगरपालिका अधिकारी  
नगर पंचायत, लवन  
जिला-बलौदाबाजार (छ.ग.)

**NAGAR PANCHAYAT LAWAN DIST :- BALODABAZAR-BHATAPARA**  
**CONSTRUCTION OF GAURAV PATH FROM MAIN ROAD TO MAHAMAYA MANDIR AT NAGAR**  
**PANCHAYAT LAWAN**  
**CONSTRUCTION OF DIVIDER**

**ABSTRACT OF COST**

**PWD ROAD SOR 2015**

S.N.	ITEM OF WORK	Qty.	RATE	UNIT	AMOUNT
<u>ItemN.1</u> <u>6.6 ROAD</u>	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications.( For Village roads) (i) P.C.C. M-10	30.00	2789.0	Cum	83670
<u>ItemN2</u> <u>3.25 ii</u> <u>Road</u>	(ii) Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement. with RCC M-20				
		200.00	4146.0	Cum	829200
<u>ItemN.3</u> <u>3.25 (iii)</u> <u>Road</u>	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in drain/cover/chamber complete as per Drawing and Technical Specifications.	10.000	56301.0	MT	563010
<u>ItemN.4</u> <u>9.6</u> <u>Building</u>	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.				
<u>9.6.2</u>	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	9600.00	68.00	kg	652800
<u>ItemN.5</u> <u>14.13</u> <u>Building</u>	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.	480.00	101 94.50	Sqm	45360 48480.00
<u>ItemN.6</u> <u>14.15</u> <u>Building</u>	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:				
<u>14.15.1</u>	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	480.00	79 56.00	Sqm	26880— 37920.00
<u>ItemN.7</u> <u>14.22</u> <u>Building</u>	Painting on new work (two or more coats) to give an even shade with:				
<u>14.22.2</u>	Premium synthetic enamel paint	960.00	47.00	Sqm	45120
Total Rs.			2260200		2246040
Say Rs. In Lacs			22.60		22.46

Er. Sandeep Kumar  
 Chartered Engineer  
 (1912833)  
 Ganpati Consultancy Services  
 Rajpur 9754714300

Sub Engineer  
 Nagar Panchayat Lawan  
 जिला-बलौदाबाजार (छ.ग.)

Chief Municipal Officer  
 Nagar Panchayat Lawan  
 Dist.- Balodabazar-  
 Bhatapara CG.

**NAGAR PANCHAYAT LAWAN DIST :- BALODABAZAR-BHATAPARA**  
**CONSTRUCTION OF GAURAV PATH FROM MAIN ROAD TO MAHAMAYA MANDIR AT NAGAR**  
**PANCHAYAT LAWAN**

**CONSTRUCTION OF DIVIDER**

**DETAILED ESTIMATE**

**PWD ROAD AND BUILDING SOR 2015**

S.N.	ITEM OF WORK	No.	L	B	D	Qty.
<u>ItemN.1</u> <u>6.6 ROAD</u>	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications.( For Village roads) (i) P.C.C. M-10					
	Divider	1	400	0.50	0.15	30.00
			Total			30.00
<u>ItemN.2</u> <u>3.25 ii</u> <u>Road</u>	(ii) Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement. with RCC M-20					
	Divider	2	400.0	0.50	0.15	60.00
		2	400.0	0.40	0.10	32.00
		2	400.0	0.30	0.45	108.00
			Net	Total		200.00
<u>ItemN.3</u> <u>3.25 (iii)</u> <u>Road</u>	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in drain/cover/chamber complete as per Drawing and Technical Specifications.	200.00	50	Kg/ Cum		10.00
<u>ItemN.4</u> <u>9.6</u> <u>Building</u>	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.	2	400		0.6	480.00
		480.00	@	20	kg/ sqm	9600.0
<u>ItemN.5</u> <u>14.13</u> <u>Building</u>	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Aslan, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.					
		2	400		0.6	480.00
		Total				480.00
<u>ItemN.6</u> <u>14.15</u> <u>Building</u>	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:					
<u>14.15.1</u>	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	As per Item No 9;				480.00



ItemN.7 14.22 Building	Painting on new work (two or more coats) to give an even shade with:					
14.22.2	Premium synthetic enamel paint	4	400		0.60	960.00
		Total				960.00



Sub Engineer  
Nagar Panchayat Lawan  
Dist.- Bhatapara CG.  
जिला-बलौदाबाजार (छ.ग.)

Chief Municipal Officer  
मुख्य नगर पंचायत अधिकारी  
Nagar Panchayat Lawan  
Dist.- Bhatapara CG.  
जिला-बलौदाबाजार (छ.ग.)

**NAGAR PANCHAYAT LAWAN DIST :-<sup>1</sup>BALODABAZAR-BHATAPARA**

**RCC CULVERT**

**ABSTRACT OF COST**

S.N.	ITEM OF WORK	Qty.	RATE	UNIT	AMOUNT
ItemN.1 3.25(i) Road	Excavation for drain (Earth work in excavation for drain/chamber 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 and backfilling with approved material.)	71.57	140.00	Cum	10020
ItemN.2 4.1 ROAD	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				
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)	10.62	371 460.00	Cum	3940 - 20 4885
ItemN.3 6.6 ROAD	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications. ( For Village roads) (i) P.C.C. M-10	19.53	2789.0	Cum	54474
ItemN.4 3.25 ii Road	(ii) Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement. with RCC M-20				
		44.42	4146.0	Cum	184162
ItemN.5 3.25 (iii) Road	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in drain/cover/chamber complete as per Drawing and Technical Specifications.	3.554	56301.0	MT	200068
ItemN.6 3.8 Bridge	Providing weep holes in Brick masonry/ 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 1 V: 20 H towards drawing face. Complete as per drawing and Technical specifications section 2706 and 2200.	12.60	321.00	Rm	4045
	Total Rs.		456709		457654
	Total Rs. In Laks		4.57		4.58

Er. Sandeep Kumar  
Chartered Engineer  
AM19973363  
Ganpaty Corporation Services  
pur 91714300

Sub Engineer  
Nagar Panchayat Lawan  
Dist. Balodabazar  
Bhatapara CG.  
जिला बलोदाबाजार (छ.ग.)

Chief Municipal Officer  
Nagar Panchayat Lawan  
Dist.- Balodabazar-  
Bhatapara CG.

## NAGAR PANCHAYAT LAWAN DIST :- BALODABAZAR-BHATAPARA

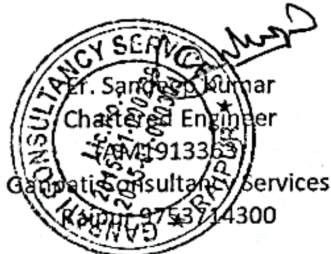
## RCC CULVERT

## DETAILED ESTIMATE

S.N.	ITEM OF WORK	No.	L	B	D	Qty.
<u>ItemN.1</u> <u>3.25(i)</u> <u>Road</u>	Excavation for drain (Earth work in excavation for drain/chamber 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 and backfilling with approved material.)					
	Abutment	2	11.20	1.50	1.80	60.48
	Wing wall	4	0.30	1.50	1.80	3.24
	Curtain wall	2	1.65	0.45	0.60	0.89
	Floor	1	10.00	1.65	0.30	4.95
	Toe wall 2x 1.26 + 1.20 = 3.72	2	3.72	0.45	0.60	2.01
				Total		71.57
<u>ItemN.2</u> <u>4.1 ROAD</u>	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					
	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)					
	Abutment	2	11.20	1.50	0.30	10.08
	Wing wall	4	0.30	1.50	0.30	0.54
	Curtain wall					0.00
	Floor					0.00
	Toe wall 2x 1.26 + 1.20 = 3.72					0.00
				Total		10.62
<u>ItemN.3</u> <u>6.6 ROAD</u>	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications.( For Village roads) (i) P.C.C. M-10					
	Abutment	2	11.20	1.50	0.30	10.08
	Wing wall	4	0.30	1.50	0.30	0.54
	Curtain wall	2	1.95	0.45	0.60	1.05
	Floor	1	10.00	1.95	0.30	5.85
	Toe wall 2x 1.26 + 1.20 = 3.72	2	3.72	0.45	0.60	2.01
				Total		19.53



ItemN4 3.25 ii Road	(ii) Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement. with RCC M-20					
Abutment	0.50 ( 10.90 + 8.77 ) = 9.84	2	9.84	1.20	0.30	7.08
	0.50 ( 9.84 + 10.45 ) = 10.14	2	10.14	0.83	1.65	27.61
	0.50 ( 10.90 + 10.00 ) = 10.45	2	10.45	0.45	0.60	5.64
Wing wall	0.50 ( 0.30 + 1.50 ) = 0.90	1	0.90	1.20	0.30	0.32
	0.50 ( 0.90 + 1.20 ) = 1.05	1	1.05	0.83	1.65	1.43
	0.50 ( 0.90 + 1.50 ) = 1.20	1	1.20	0.45	0.60	0.32
		2	5	0.45	0.45	2.00
			Net	Total		44.42
ItemN.5 3.25 (iii) Road	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in drain/cover/chamber complete as per Drawing and Technical Specifications.	44.42	80	Kg/ Cum	/1000	3.55
ItemN.6 3.8 Bridge	Providing weep holes in Brick masonry/ 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 1 V: 20 H towards drawing face. Complete as per drawing and Technical specifications section 2706 and 2200.					
	10.9 / 1.5 = 7 x 3 = 21	21	0.60			12.60



Sub Engineer  
Nagar Panchayat Lawan  
Dist.- Balodabazar  
BhataparaCG.  
जिला-बलौदाबाजार (छ.ग.)

Chief Engineer  
Nagar Panchayat Lawan  
Dist.- Balodabazar  
BhataparaCG.

## NAGAR PANCHAYAT LAWAN

**CONSTRUCTION OF DRAIN SIZE 1.0X1.0 M**

## ABSTRACT OF COST

PWD ROAD SOR 2015

S.N.	ITEM OF WORK	Qty.	RATE	UNIT	AMOUNT
<u>ItemN.1</u> <u>3.20(i)</u> <u>Road</u>	Construction of RCC open drain 1.0m x 1.0m inside dimension lined with 150 mm thick RCC M-20 walls, 150 mm thick CC M-20 foundation, over 100 mm thick (Av) leveling course in PCC M-15 including excavation , dressing of sides and bottom, provision of HYSD reinforcement consisting 10 mm dia horizontal bars @ 150 mm c/c and L-shaped 10 mm dia vertical bars @ 150 mm c/c (L=1400 mm) including cutting, bending and binding wire, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications.	200.00	4905.0	Cum	981000
<u>ItemN..2</u> <u>4.1</u> <u>ROAD</u>	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				
<u>B</u>	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),	30.00	460.00 371	Cum	13800 11130
<u>ItemN3</u> <u>3.25 ii</u> <u>Road</u>	(ii) Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement. with RCC M-20				
		17.55	4146.0	Cum	72762
<u>ItemN.4</u> <u>3.25 (iii)</u> <u>Road</u>	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in drain/cover/chamber complete as per Drawing and Technical Specifications.	1.316	56301.0	MT	74106



Item N.5.3.8 Bridge	Providing weep holes in Brick masonry/ 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 1 V: 20 H towards drawing face. Complete as per drawing and Technical specifications section 2706 and 2200.	26.80	321.00	Rm	8603
Total Rs.		114760			1150274
Say Rs. In Lacs		11.48			11.50
FOR BOTH SIDE OF ROAD		22.96			23.00

Er. Sandeep Kumar  
Chartered Engineer  
(AM1913363)  
Ganpati Consultancy Services  
Raipur-4913371

Sub Engineer  
Nagar Panchayat Lawan  
Dist.- Balodabazar  
Bhatapara CG, लवन  
जिला-बलौदायाजार (छ.ग.)

Chief Municipal Officer  
Nagar Panchayat Lawan  
Dist.- Balodabazar- Bhatapara CG  
जिला-बलौदायाजार-भटपारा (छ.ग.)

NAGAR PANCHAYAT LAWANCONSTRUCTION OF DRAIN SIZE 1.0X1.0 MDETAILED ESTIMATEPWD ROAD SOR 2015

S.N.	ITEM OF WORK	No.	L	B	D	Qty.
<u>ItemN.1</u> <u>3.20(i)</u> <u>Road</u>	Construction of RCC open drain 1.0m x 1.0m inside dimension lined with 150 mm thick RCC M-20 walls, 150 mm thick CC M-20 foundation, over 100 mm thick (Av) leveling course in PCC M-15 including excavation, dressing of sides and bottom, provision of HYSD reinforcement consisting 10 mm dia horizontal bars @ 150 mm c/c and L-shaped 10 mm dia vertical bars @ 150 mm c/c (L=1400 mm) including cutting, bending and binding wire, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications.					
		1	200			200.00
				Total		200.00
<u>ItemN.2</u> <u>4.1 ROAD</u>	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					
	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)					
		1	200	1.50	0.10	30.00
				Total		30.00
<u>ItemN3</u> <u>3.25 ii</u> <u>Road</u>	(ii) Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement. with RCC M-20					
	Cover	1	150	1.30	0.15	17.55
			Net	Total		17.55
<u>ItemN.4</u> <u>3.25 (iii)</u> <u>Road</u>	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in drain/cover/chamber complete as per Drawing and Technical Specifications.					
			75	Kg/ Cum	/1000	1.316



Er. Sandeep Kumar  
Chartered Engineer  
Ganpati Consultants Services  
Raipur

Sub Engineer  
Nagar Palika, Lawan  
Dist.- Balodabazar- Bhatapara CG.

मुख्य नगर पंचायत अधिकारी  
Nagar Panchayat Lawan.,  
Dist.- BalodaBazar- BhataparaCG.  
वि. बतीदाबाजार- कच्छ (ग.प.)

**NAGAR PANCHAYAT LAWAN**  
**OUT DOOR ELECTRICAL WORK**

**ABSTRACT OF COST**

PWD Electrical SOR 2020

S.N.	ITEM OF WORK	Qty.	RATE	UNIT	AMOUNT
<u>ItemN.1</u> <u>19.3.1</u>	Supply of swaged steel tubular pole as per IS 2713 with base plate of size 300x300x6mm welded at bottom, necessary hole for cable entry and earthing stud welded at specified height including painting with one coat of red oxide zinc chromate primer.				
19.3.9	Designation 410 SP-26 height 9.00 metre	23.00	7168.00	EACH	164864
<u>ItemN.2</u> <u>19.10</u>	Erection of STEEL TUBULAR or "H" BEAM/ ISMB pole in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation and cement concrete collar of size 0.4 metre dia and 0.50 metre height from ground level including excavation and refilling etc. as required of length:				
19.10.4	7 metre to 10 metre	23.00	2610.00	EACH	60030
<u>ItemN.3</u> <u>19.28</u>	Supplying and fixing of double over hang (Arm) 1500 MM (long)x50 mm dia decorative GI street light pole bracket made out of GI "A" Class pipe welded to 300 MM Long GI Pole canopy of suitable dia at angle of 102.50 Degree including having GI triangular stiffener and making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy including FRP Dome on existing pole etc. as per enclosed drawing and as per direction of engineer-in-charge.	23.00	2853.00	EACH	65619
<u>ItemN.4</u> <u>19.17.2</u>	Supplying and fixing PVC water tight terminal box of approved make and brand with detachable gland plate in bottom, hinged front openable cover, rubber gasket, having 1 Nos 4way connector and 1 No SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 25x3mm GI flat with 2 No GI nuts bolts complete as required 300x200x125 mm for 3 phase	23.00	989.00	EACH	22747
<u>ItemN 5</u> <u>14.2.1</u>	Supplying and laying HDPE pipe of 4kg/sqcm in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required. 63 mm outer dia	483.00	124.00	MTR	59892
<u>ItemN 6</u> <u>15.3</u>	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as required.				
<u>15.3.12</u>	3.5 x 35 sq. mm.	207.00	134.00	MTR	27738
<u>15.3.23</u>	4 x 16 sq. mm.	500.00	103.00	MTR	51500
<u>ItemN 7</u> <u>15.23</u>	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required.				
<u>15.23.23</u>	4 X 10 sq. mm (22 mm)	23.00	98.00	EACH	2254
<u>15.23.25</u>	4 X 25 sq. mm (25 mm)	4.00	104.00	EACH	416




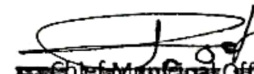
<u>ItemN.8</u> <u>15.28</u>	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as required.				
<u>15.28.2</u>	10 sq. mm	69.00	18.00	EACH	1242
<u>15.28.4</u>	25 sq. mm	8.00	22.00	EACH	176
<u>ItemN 9</u> <u>7.6.2</u>	Supplying and fixing metal clad busbar chamber made of 1.6 mm thick CRCA sheet with 4 strip aluminium alloy or wrought aluminium busbars of following capacity and length, complete with all accessories, including earthing the body etc. as required.100 amps x 450mm long	4.00	1911.00	EACH	7644
<u>ItemN 10</u> <u>7.10.3</u>	Providing and fixing metal clad, TP&N switch fuse unit (re-wirable), 415/500 volts, with porcelain re-wirable fuses including drilling holes on the board, connections, earthing the body etc. as required. (Thimbeling shall be paid separately).100 amps	4.00	3493.00	EACH	13972
<u>ItemN 11</u> <u>7.11.4</u>	Providing and fixing porcelain re-wirable fuse carrier and base unit on wooden board including drilling holes on the board, screws, connections etc. as required. (Thimbeling shall be paid separately).100 amps	4.00	290.00	EACH	1160
<u>ItemN 12</u> <u>9.1</u>	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
<u>9.1.5</u>	3 pole MCCB, 125A, Adjustable Thermal - Magnetic Release, 25KA	4.00	5740.00	EACH	22960
<u>ItemN 13</u> <u>7.1</u>	Supplying and fixing wall/ floor mounted metal board of welded construction, fabricated with minimum 50mmX 50mm X 6mm angle iron frame work, with horizontal and vertical intermediate members of suitable angle/flat iron for mounting of switch gears including painting etc. as required.	4.00	3025.00	SQM	12100
<u>ItemN 14</u> <u>2.13.1</u>	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC Insulated copper conductor, single core cable in surface steel conduit including painting etc as required.3 X 1.5 sq. mm in 20mm conduit	525.00	67.00	MTR	35175
<u>ItemN 15</u> <u>12.19</u>	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as required:With 3 metre long GI Pipes and 50 kg back filling	4.00	10955.0	EACH	43820
<u>ItemN 16</u> <u>12.10</u>	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	69.00	53.00	MTR	3657



ItemN 17 12.5	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as per specification.	69.00	513.00	MTR	35397
ItemN 18 6.28	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 120$ lumens /				
6.28.7	60 watt	51.00	3622.00	EACH	184722
ItemN 19 19.9.3	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffner of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as required.	46.00	1233.00	EACH	56718
ItemN 20 32.87.1	Providing of metal clad, TP&N motorized change over switch unit, 415/500 volts as per specification.125 amps	1.00	25019.0	EACH	25019
ItemN 21 19.24	Painting of following height steel tubular poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as per specification:				
19.24.3	Above 8 metre and upto 10 metre	23.00	265.00	EACH	6095
	TOTAL AMOUNT				904917
	SAY RS.				9.05

  
 Ganapati Consultancy Services  
 Raipur 492001

  
 Subodh Kumar  
 Nagar Panchayat, Lawan  
 जिला-बलौदाबाजार (छ.ग.)

  
 मुख्यालय नगरपालिका अधिकारी  
 Nagar Panchayat Lawan  
 Dist.- Balodabazar- Bhatapara CG.

## NAGAR PANCHAYAT LAWAN

OUT DOOR ELECTRICAL WORK  
DETAILED ESTIMATE

S.N.	ITEM OF WORK	No.	L	B	D	Qty.
ItemN.1 19.3.1	Supply of swaged steel tubular pole as per IS 2713 with base plate of size 300x300x6mm welded at bottom, necessary hole for cable entry and earthing stud welded at specified height including painting with one coat of red oxide zinc chromate primer.					
19.3.4	Designation 410 SP-26 height 9.00 metre					
	420 x 1 = 420 / 20 +2=	23.0				23.00
ItemN.2 19.10	Erection of STEEL TUBULAR or "H" BEAM/ ISMB pole in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation and cement concrete collar of size 0.4 metre dia and 0.50 metre height from ground level including excavation and refilling etc. as required of length:					
19.10.4	7 metre to 10 metre	23.0				23.00
ItemN.3 19.28	Supplying and fixing of double over hang (Arm) 1500 MM (long)x50 mm dia decorative GI street light pole bracket made out of GI "A" Class pipe welded to 300 MM Long GI Pole canopy of suitable dia at angle of 102.50 Degree including having GI triangular stiffner and making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy including FRP Dome on existing pole etc. as per enclosed drawing and as per direction of engineer-in-	23.0				23.00
ItemN.4 19.17.2	Supplying and fixing PVC water tight terminal box of approved make and brand with detachable gland plate in bottom, hinged front openable cover, rubber gasket, having 1 Nos 4way connector and 1 No SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 25x3mm GI flat with 2 No GI nuts bolts complete as required 300x200x125 mm for 3 phase.	23.0				23.00
ItemN 5 14.2.1	Supplying and laying HDPE pipe of 4kg/sqcm in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.63					
	23 x 21 = 483.00					483.00
ItemN 6 15.3	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe					
15.3.12	3.5 x 35 sq. mm.	23.0	9.00			207.00
15.3.23	4 x 16 sq. mm.	1.0	500.00			500.00
					Total	707.00
ItemN 7 15.23	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required.					
15.23.23	4 X 10 sq. mm (22 mm)	23.0				23.00
15.23.25	4 X 25 sq. mm (25 mm)	4.0				4.00
					Total	27.00



<u>ItemN.8</u> <u>15.28</u>	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB					
<u>15.28.2</u>	10 sq. mm	23.0	3.00			69.00
<u>15.28.4</u>	25 sq. mm	4.0	2.00			8.00
					Total	77.00
<u>ItemN 9</u> <u>7.6.2</u>	Supplying and fixing metal clad busbar chamber made of 1.6 mm thick CRCA sheet with 4 strip aluminium alloy or wrought aluminium busbars of following capacity and length, complete with all accessories, including earthing the body etc. as required.100 amps x 450mm long	4.0				4.00
<u>ItemN 10</u> <u>7.10.3</u>	Providing and fixing metal clad, TP&N switch fuse unit (re-wirable), 415/500 volts, with porcelain re-wirable fuses including drilling holes on the board, connections, earthing the body etc. as required. (Thimbeling shall be paid separately).100 amps	4.0				4.00
<u>ItemN 11</u> <u>7.11.4</u>	Providing and fixing porcelain re-wirable fuse carrier and base unit on wooden board including drilling holes on the board, screws, connections etc. as required. (Thimbeling shall be paid separately).100 amps	4.0				4.00
<u>ItemN 12</u> <u>9.1</u>	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as					
<u>9.1.5</u>	3 pole MCCB, 125A, Adjustable Thermal - Magnetic Release, 25KA	4.0				4.00
<u>ItemN 13</u> <u>7.1</u>	Supplying and fixing wall/ floor mounted metal board of welded construction, fabricated with minimum 50mmX 50mm X 6mm angle iron frame work, with horizontal and vertical intermediate members of suitable angle/flat iron for mounting of switch gears including painting etc. as	4.0				4.00
<u>ItemN 14</u> <u>2.13.1</u>	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface steel conduit including painting etc as required.3 X 1.5 sq. mm in	1.1	500			525.00
<u>ItemN 15</u> <u>12.19</u>	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as required:With 3 metre long GI Pipes and 50 kg back filling compound	4.0				4.00
<u>ItemN 16</u> <u>12.10</u>	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	23.0	3			69.00
<u>ItemN 17</u> <u>12.5</u>	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as per specification.	23.0	3			69.00



<b>ItemN 18</b> <b>6.28</b>	Supplying, Installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED				
<b>6.28.7</b>	60 watt	23.0	2		46.00
<b>6.28.4</b>	Other poll extra led(60 watt)	5.0			5.00
				Total	51.00
<b>ItemN 19</b> <b>19.9.3</b>	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffner of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as required.	23.0	2		46.00
<b>ItemN 20</b> <b>32.87.1</b>	Providing of metal clad, TP&N motorized change over switch unit, 415/500 volts as per specification.125 amps	2.0			1.00
<b>ItemN 21</b> <b>19.24</b>	Painting of following height steel tubular poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as per specification:				
<b>19.24.3</b>	Above 8 metre and upto 10 metre	23.0			23.00

Er. Sandeep Kumar  
Chartered Engineer  
M191330  
Ganpati Engineering Services  
RAIPUR

Sub Engineer  
Nagar Panchayat Lawan  
Dist.- Balodabazar- BhataparaCG.  
नगर पंचायत, लवण  
जिला-बलौदाबाजार (छ.ग.)

Chief Municipal Officer  
मुख्य नगर पालिका अधिकारी  
Nagar Panchayat Lawan  
Dist.- Balodabazar- BhataparaCG.  
जि. बलौदाबाजार-बटापारा(छ.ग.)

1  
MUNICIPAL COUNCIL LAWAN  
LANDSCAPING (GARDENING) WORK

ABSTRACT OF COST

PWD BUILDING SOR 2015

S.N.	ITEM OF WORK	Qty.	RATE	UNIT	AMOUNT
<u>ItemN 1</u> <u>22.2</u>	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).	8.64	201.00	Cum	1737
<u>ItemN 2</u> <u>22.4</u>	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).	4.32	236.00	Cum	1020
<u>ItemN 3</u> <u>22.9</u>	Mixing earth and sludge or manure in proportion specified or directed.	12.96	11.00	Cum	143
<u>ItemN 4</u> <u>22.8</u> <u>Building</u>	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	12.96	17.50	Cum	227
<u>ItemN 5</u> <u>12.6 Road</u>	Providing and planting of 3"0" to 4"0" heightened wasingtonia, filipheria/bismarkia novelist plam plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance.	20.00	935.00	EACH	18700
<u>ItemN 6</u> <u>12.7 Road</u>	Providing and planting of 4"0" to 5"0" heightened Ficus prestige/Blackiana plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance.	20.00	660.00	EACH	13200
<u>ItemN7</u> <u>12.8</u> <u>Road</u>	Providing and planting of Bogenbelia dwarf, chandni dwarf, kaner dwarf vr flower bearing plants with 0"9" x 0"9" depth pit formation and soil preparation work"s, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance.	10.00	88.00	EACH	880
<u>ItemN 8</u> <u>12.9 Road</u>	Providing and planting of dwarf red Ekalyha plants showing masseffect view with 0"9" x 0"9"x1"0" depth pit formation and soil preparation work"s, (Mixing organic manure and plant's protection insecticide).Up to 4 month maintenance.	10.00	72.00	EACH	720
<u>ItemN 9</u> <u>12.10</u> <u>Road</u>	Providing and planting of plumeria (Champa) 2"0" to 3"0" heightened plants with 1"0" x 1"0"x1"6" depth pit formation and soilpreparation work"s, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance.	20.00	380.00	EACH	7600
<u>ItemN 10</u> <u>22.25</u> <u>building</u>	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:				
22.25.1	Hedges like Alife, Dorenta, Tikoma etc	100	14.00	EACH	1400
22.25.2	Furn like Arica, China etc (3 year old)	100	125.00	EACH	12500
22.25.3	Hibiscus (Flower)/ Rose	50	26.50	EACH	1325
<u>ItemN 11</u> <u>12.13 road</u>	Human and other sculptures (a) 5 to 7 feet	1.00	75000.0	EACH	75000



	( b) 2 to 5 feet	2.00	30000.0	EACH	60000
ItemN 12 road	Cement art Mural work	9.00	3500.0	Sqm	31500
		Total	SOR	ITEM	225952
	G. TOTAL				225952
	Say Rs. In Lacs				2.26

Er. Sandeep Kumar  
Chartered Engineer  
(AM No. 336338)  
Ganpati Consulting Services  
Raipur 492001  
2013/01/01 to 2013/01/01

Sub-Engineer  
Nagar Panchayat Lawan  
Dist. जिला बलौदाबाजार  
Bhatnagar G.  
नगर पंचायत, लवन  
जिला-बलौदाबाजार (छ.ग.)

मुख्य अधिकारी  
Nagar Panchayat Lawan  
Dist.- Balodabazar, Bhatnagar G.  
जि. बलौदाबाजार (छ.ग.)

**MUNICIPAL COUNCIL LAWAN**  
**LANDSCAPING (GARDENING) WORK**

**DETAILED ESTIMATE**

PWD BUILDING SOR 2015

S.N.	ITEM OF WORK	No.	L	B	D	Qty.
<u>ItemN 1</u> <u>22.2</u>	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).					
	2 x 0 / 20 = 0	80	0.60	0.60	0.30	8.64
				Total		8.64
<u>ItemN 2</u> <u>22.4</u>	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).					
		80.0	0.60	0.60	0.15	4.32
				Total		4.32
<u>ItemN 3</u> <u>22.9</u>	Mixing earth and sludge or manure in proportion specified or directed.					
		80	0.60	0.60	0.45	12.96
				Total		12.96
<u>ItemN 4</u> <u>22.8</u> <u>Building</u>	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).					
		80	0.60	0.60	0.45	12.96
				Total		12.96
<u>ItemN 5</u> <u>12.6</u> <u>Road</u>	Providing and planting of 3"0" to 4"0" heighted wasingtonia, filipheria/bismarkia novelist plam plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance.	20				20.00
<u>ItemN 6</u> <u>12.7</u> <u>Road</u>	Providing and planting of 4"0" to 5"0" heighted Ficus prestige/Blackiana plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance.	20				20.00
<u>ItemN7</u> <u>12.8</u> <u>Road</u>	Providing and planting of Bogenbelia dwarf, chandni dwarf, kaner dwarf vr flower bearing plants with 0"9" x 0"9" depth pit formation and soil preparation work's, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance.					0.00
		10				10.00
<u>ItemN 8</u> <u>12.9</u> <u>Road</u>	Providing and planting of dwarf red Ekalyha plants showing masseffect view with 0"9" x 0"9"x1"0" depth pit formation and soil preparation work's, (Mixing organic manure and plant's protection insecticide).Up to 4 month maintenance.					
		10				10

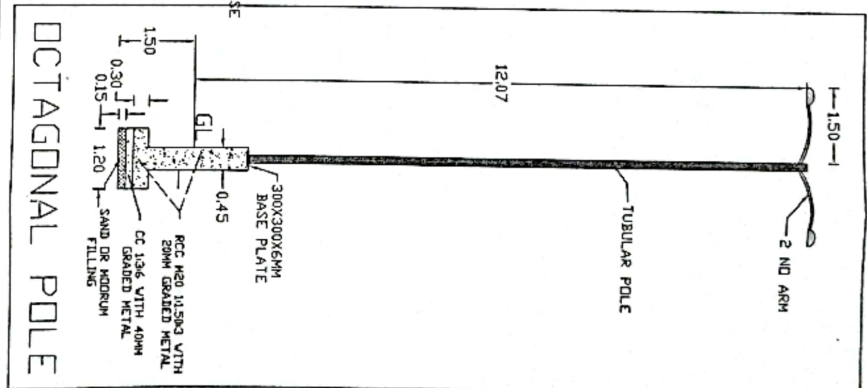


ItemN 9 12.10 Road	Providing and planting of plumeria (Champa) 2"0" to 3"0" height plants with 1"0" x 1"0"x1"6" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance.					
		20				20.00
ItemN 10 22.25 building	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:					
22.25.1	Hedges like Alife, Dorenta, Tikoma etc	100				100
22.25.2	Furn like Arica, China etc (3 year old)	100				100
22.25.3	Hibiscus (Flower)/ Rose	50				50
ItemN 11 12.13 road	Human and other sculptures (a) 5 to 7 feet	1				1.00
0	(b) 2 to 5 feet	2				2.00
ItemN 12 road	Cement art Mural work	3	2.5	1.2		9.00


Er. Sandeep Kumar  
Chartered Engineer  
M191282895  
Ganpati Construction  
Services Pvt. Ltd.  
Rajkot-360007  
2015-06-09  
GANPATI CONSTRUCTION  
RAJKOT

Sub Engineer  
Nagar Panchayat Lawan  
Dist.- Balodabazar, BhatarparaCG.  
जिला-बलौदाबाजार (छ.ग.)

Chief Municipal Officer  
Nagar Panchayat Lawan  
Dist.- Balodabazar, BhatarparaCG.  
मुख्य नगर पालिका अधिकारी  
जि. बलौदाबाजार-भटारपरा (छ.ग.)



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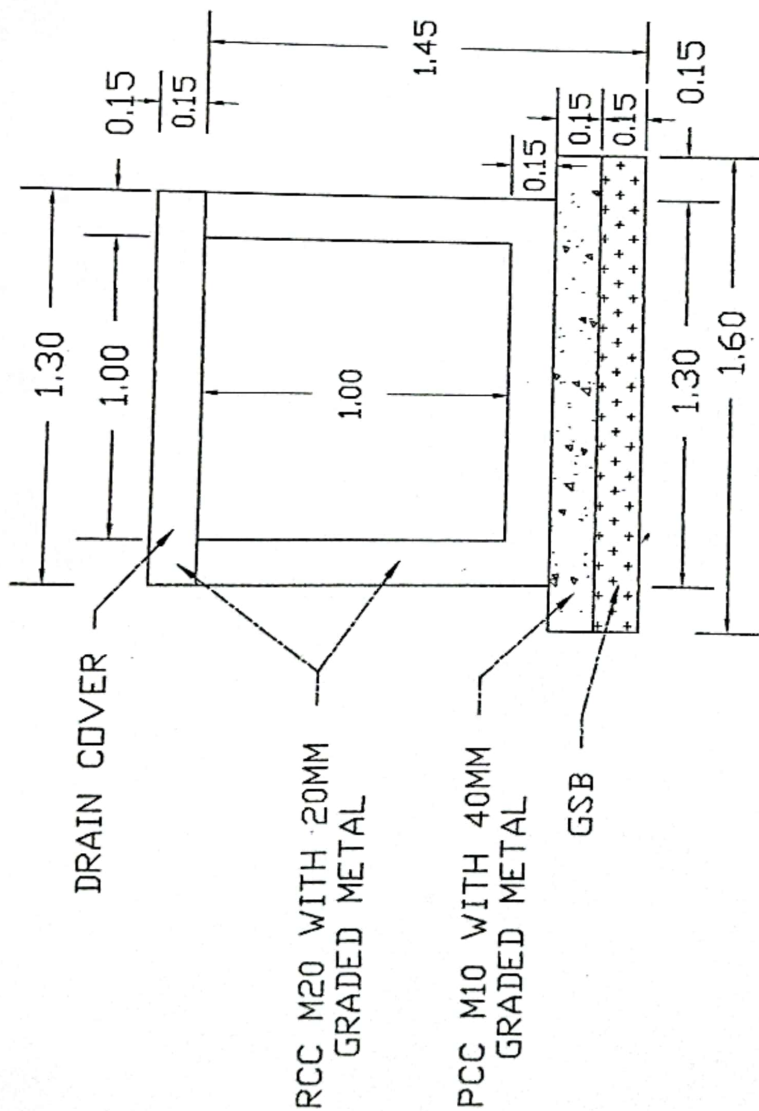


**Gandpati CONSULTANCY SERVICES**  
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Shop No. 9735374-1000, F-Mail - gandpaticonsultancy.rs@gmail.com

LT. No. -  
2415-01-4007261, 2415-01-4007262, 2415-01-4007263, 2415-01-4007264, 2415-01-4007265, 2415-01-4007266, 2415-01-4007267, 2415-01-4007268, 2415-01-4007269, 2415-01-4007270, 2415-01-4007271, 2415-01-4007272, 2415-01-4007273, 2415-01-4007274, 2415-01-4007275, 2415-01-4007276, 2415-01-4007277, 2415-01-4007278, 2415-01-4007279, 2415-01-4007280, 2415-01-4007281, 2415-01-4007282, 2415-01-4007283, 2415-01-4007284, 2415-01-4007285, 2415-01-4007286, 2415-01-4007287, 2415-01-4007288, 2415-01-4007289, 2415-01-4007290, 2415-01-4007291, 2415-01-4007292, 2415-01-4007293, 2415-01-4007294, 2415-01-4007295, 2415-01-4007296, 2415-01-4007297, 2415-01-4007298, 2415-01-4007299, 2415-01-4007300, 2415-01-4007301, 2415-01-4007302, 2415-01-4007303, 2415-01-4007304, 2415-01-4007305, 2415-01-4007306, 2415-01-4007307, 2415-01-4007308, 2415-01-4007309, 2415-01-4007310, 2415-01-4007311, 2415-01-4007312, 2415-01-4007313, 2415-01-4007314, 2415-01-4007315, 2415-01-4007316, 2415-01-4007317, 2415-01-4007318, 2415-01-4007319, 2415-01-4007320, 2415-01-4007321, 2415-01-4007322, 2415-01-4007323, 2415-01-4007324, 2415-01-4007325, 2415-01-4007326, 2415-01-4007327, 2415-01-4007328, 2415-01-4007329, 2415-01-4007330, 2415-01-4007331, 2415-01-4007332, 2415-01-4007333, 2415-01-4007334, 2415-01-4007335, 2415-01-4007336, 2415-01-4007337, 2415-01-4007338, 2415-01-4007339, 2415-01-4007340, 2415-01-4007341, 2415-01-4007342, 2415-01-4007343, 2415-01-4007344, 2415-01-4007345, 2415-01-4007346, 2415-01-4007347, 2415-01-4007348, 2415-01-4007349, 2415-01-4007350, 2415-01-4007351, 2415-01-4007352, 2415-01-4007353, 2415-01-4007354, 2415-01-4007355, 2415-01-4007356, 2415-01-4007357, 2415-01-4007358, 2415-01-4007359, 2415-01-4007360, 2415-01-4007361, 2415-01-4007362, 2415-01-4007363, 2415-01-4007364, 2415-01-4007365, 2415-01-4007366, 2415-01-4007367, 2415-01-4007368, 2415-01-4007369, 2415-01-4007370, 2415-01-4007371, 2415-01-4007372, 2415-01-4007373, 2415-01-4007374, 2415-01-4007375, 2415-01-4007376, 2415-01-4007377, 2415-01-4007378, 2415-01-4007379, 2415-01-4007380, 2415-01-4007381, 2415-01-4007382, 2415-01-4007383, 2415-01-4007384, 2415-01-4007385, 2415-01-4007386, 2415-01-4007387, 2415-01-4007388, 2415-01-4007389, 2415-01-4007390, 2415-01-4007391, 2415-01-4007392, 2415-01-4007393, 2415-01-4007394, 2415-01-4007395, 2415-01-4007396, 2415-01-4007397, 2415-01-4007398, 2415-01-4007399, 2415-01-4007400, 2415-01-4007401, 2415-01-4007402, 2415-01-4007403, 2415-01-4007404, 2415-01-4007405, 2415-01-4007406, 2415-01-4007407, 2415-01-4007408, 2415-01-4007409, 2415-01-4007410, 2415-01-4007411, 2415-01-4007412, 2415-01-4007413, 2415-01-4007414, 2415-01-4007415, 2415-01-4007416, 2415-01-4007417, 2415-01-4007418, 2415-01-4007419, 2415-01-4007420, 2415-01-4007421, 2415-01-4007422, 2415-01-4007423, 2415-01-4007424, 2415-01-4007425, 2415-01-4007426, 2415-01-4007427, 2415-01-4007428, 2415-01-4007429, 2415-01-4007430, 2415-01-4007431, 2415-01-4007432, 2415-01-4007433, 2415-01-4007434, 2415-01-4007435, 2415-01-4007436, 2415-01-4007437, 2415-01-4007438, 2415-01-4007439, 2415-01-4007440, 2415-01-4007441, 2415-01-4007442, 2415-01-4007443, 2415-01-4007444, 2415-01-4007445, 2415-01-4007446, 2415-01-4007447, 2415-01-4007448, 2415-01-4007449, 2415-01-4007450, 2415-01-4007451, 2415-01-4007452, 2415-01-4007453, 2415-01-4007454, 2415-01-4007455, 2415-01-4007456, 2415-01-4007457, 2415-01-4007458, 2415-01-4007459, 2415-01-4007460, 2415-01-4007461, 2415-01-4007462, 2415-01-4007463, 2415-01-4007464, 2415-01-4007465, 2415-01-4007466, 2415-01-4007467, 2415-01-4007468, 2415-01-4007469, 2415-01-4007470, 2415-01-4007471, 2415-01-4007472, 2415-01-4007473, 2415-01-4007474, 2415-01-4007475, 2415-01-4007476, 2415-01-4007477, 2415-01-4007478, 2415-01-4007479, 2415-01-4007480, 2415-01-4007481, 2415-01-4007482, 2415-01-4007483, 2415-01-4007484, 2415-01-4007485, 2415-01-4007486, 2415-01-4007487, 2415-01-4007488, 2415-01-4007489, 2415-01-4007490, 2415-01-400

<p>GOVT. OF CHHATTISGARH</p> <p>URBAN ADMINISTRATION &amp; DEVELOPMENT DEPARTMENT</p> <p>NAGAR PANAYAT LAVAL</p> <p>CONSTRUCTION OF GAUPAY PATH FROM MAIN ROAD TO HAKHAPAYA HANIDR AT NAGAR PANAYAT LAVAL,</p>		<p>REVENUE BR.</p> <p>CHECKED BY</p>	<p>CHIEF ENGINEER</p> <p>URBAN ADMINISTRATION &amp; DEVELOPMENT DEPARTMENT</p> <p>LAVAL, CHHATTISGARH</p>
<p>CHIEF MUNICIPAL OFFICER</p> <p>NAGAR PANAYAT LAVAL</p>	<p>AC</p> <p>SUBMITTED BY</p>	<p>CHIEF ENGINEER</p> <p>URBAN ADMINISTRATION &amp; DEVELOPMENT DEPARTMENT</p> <p>LAVAL, CHHATTISGARH</p>	<p>CHIEF ENGINEER</p> <p>URBAN ADMINISTRATION &amp; DEVELOPMENT DEPARTMENT</p> <p>LAVAL, CHHATTISGARH</p>
<p>CHIEF ENGINEER</p> <p>URBAN ADMINISTRATION &amp; DEVELOPMENT DEPARTMENT</p> <p>LAVAL, CHHATTISGARH</p>	<p>APPROVED BY</p>	<p>CHIEF ENGINEER</p> <p>URBAN ADMINISTRATION &amp; DEVELOPMENT DEPARTMENT</p> <p>LAVAL, CHHATTISGARH</p>	<p>CHIEF ENGINEER</p> <p>URBAN ADMINISTRATION &amp; DEVELOPMENT DEPARTMENT</p> <p>LAVAL, CHHATTISGARH</p>
<p>TRAINING UNIT</p>			



GOVT. OF CHHATTISGARH  
URBAN ADMINISTRATION & DEVELOPMENT DEPARTMENT  
CONSTRUCTION OF RCC DRAIN SIZE (1.00MX1.00M)

DRAWN BY:	CHECKED BY:
SUB. ENGINEER	AE 101
SUBMITTED BY:	APPROVED BY:
CHIEF MUNICIPAL OFFICER	EXECUTIVE ENGINEER URBAN ADMINISTRATION & DEVELOPMENT DIVISION-RAIPUR
	DRAWING NO.

PREPARED BY:

**Ganpati CONSULTANCY SERVICES**  
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AUTHORIZED SIGNATORY

**ER. SANDEEP KUMAR**  
Chartered Engineer  
(AM1913363)

Lic. No.:  
2015-01-000239  
2015-01-000301

RAIPUR