



बिहार BIHAR

ANNEX - B

Agreement No- 51/25-26.....

This Agreement made the

19

day of Nov

2025 Between The

Executive Engineer, Rural Works Department, Work Division, Narkatiaganj ("The E/I") of the one part, and Jai Bhawani Engicon Private Limited, At-Ward No-37, Adarsh Nagar Colony, Bettiah, West Champaran-845438, Bihar, Email- nikhilsinghs11@gmail.com, Mob- +91 9472900111 [Name & address of Contractor] ("The Contractor") of the other part.

Whereas the E/I is desirous that the Contractor execute Output and performance based Rural Road contract for the maintenance of Roads MMGSY (Awsesh-SC) Narkatiaganj-611 (Tender ID- 143156) Under MMGSY (AWSESH) (Hereinafter called "The Work") and the E/I has accepted the Bid by the Contractor for the execution of such Works and the remedying of any defects therein, at a contract price of Rs. 9,71,04,996.00 (RS Nine Crore Seventy One Lakh Four Thousand Nine Hundred Ninety Six ONLY).

S.N.	Package No.	Road Name	Length
1	MMGSY (Awsesh-SC) Narkatiaganj- 611	Part-A TMC Madhopur Mauje to Balua Part-B Construction of HL RCC Bridge Span 5x18.75m TMC Madhopur to Balua, Approach Road- 200m	1.474 KM 101.25 M

NOW THIS AGREEMENT WITNESSETH and the Parties hereto agree as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the General condition hereafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the E/I to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the E/I to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the contract.

Jai Bhawani Engicon Private Limited  
Nikhil Kumar  
DIRECTOR.

Signature 19/11

Signature  
19/11/25  
Executive Engineer  
R.W. Work Division  
Narkatiaganj



3. The E/I hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
- (i) Letter of Acceptance
  - (ii) Contractor's Bid
  - (iii) Section VI - General Conditions,
  - (iv) Section VII - Particular Conditions
  - (v) Section V - Technical Specifications (General and Supplementary Technical Specifications)
  - (vi) Appendix A - Drawings
  - (vii) Section IV - Works Schedule
  - (viii) Quality Plan for Output and Performance Based Road Contract as per Clause A14.1 of the Technical Specifications.
  - (ix) Appendices to the Contract
  - (x) Addenda issued during bid period
  - (xi) Any other relevant documents listed in the Particular Conditions together with any post bid correspondence.

In witness where of the parties there to have caused this Agreement to be executed the day and year first befour written

The Common Seal of - .....  
Was here unto affixes in the presence of

Signed, sealed and delivered by the said .....  
In the presence of:

Binding Signature of E/I

Binding Signature of Contractor

Jai Bhawani Engicon Private Limited  
Nidhi Kumari  
DIRECTOR.

*Signature*  
19/11/25

*Signature*  
19/11/25  
Executive Engineer  
R.W.D. Works Division  
Noida  
19/11/25

Name of Agency :- Jai Bhawani Engicon Private Limited  
At-Ward No-37, Adarsh Nagar Colony,  
Bettiah, West Champaran-845438, Bihar  
Email- nikhilsinghs11@gmail.com  
Mob- +91 9472900111

Name of Work: - MMGSY (Awsesh-SC) Narkatiaganj-611 (Tender ID- 143156) Under  
MMGSY (AWSESH)

S.N.	Package No.	Road Name	Length
1	MMGSY (Awsesh-SC) Narkatiaganj- 611	Part-A TMC Madhopur Mauje to Balua Part-B Construction of HL RCC Bridge Span 5x18.75m TMC Madhopur to Balua, Approach Road- 200m	1.474 KM  101.25 M

Agreement no.

:- 51/25-26

W/O Letter issued by

:- 1. Office of the Engineer-in-chief  
vide Lt No- 2656(Enc), Date- 23.09.2025  
2. C.E-05, BIHAR, PATNA  
Letter No.- \_\_\_\_\_ Enc, Date-

LOA Letter No. and Date

:- Lt No-1622, Date-25.09.2025

Agreement value

:- Rs. 9,71,04,996.00

Construction Cost

:-

Maintenance Cost

:-

Date of work order

:-

Time of Completion

:-

Performance Security

:- Rs 19,43,000.000

Additional Performance Guarantee

:- Rs-0.00 ✓

Security Deduct from bill

:- 8 %

Rate

:- 0.00% (Zero points Zero  
percent Below on S/R

Bhawani Engicon Private Limited  
Nidhi Kumari  
DIRECTOR.

Signature  
19/11/25

Signature  
19/11/25  
Executive Engineer  
R.O.D. Works Division  
Narkatiaganj





Email ID: eerwdwd2bottish@gmail.com

**OFFICE OF THE EXECUTIVE ENGINEER**  
**RURAL WORKS DEPARTMENT, WORK DIVISION, NARKATIAGANJ**

From,

Lt. No. 1622 / Narkatlaganj Date. 25/09/25

To,

Executive Engineer,  
Rural Works Department,  
Work Division, Narkatlaganj

Subject:

Letter of Acceptance.

Ref. No-

Dep. Lt. No- Lt-2656, Date-23/09/2025

Dear Sir,

This is to notify that your Bid date ~~14/09/25~~ <sup>25/09/25</sup> for execution of the road from "MMGSY (Awsesh-SC) Narkatlaganj-247 (Tender ID-144495) under MMGSY (Awsesh-SC) Scheme for the Contract Rs-9,71,04,996.00 (RS Nine crore seventy one lakh four thousand nine hundred ninety six ONLY)

as corrected and modified in accordance with the Instructions to Bidders<sup>1</sup> is hereby accepted by our Agency.

You are hereby requested to furnish Performance Security, in the forms details in Para 34.1 of the ITB of MMGSY (Awsesh-SC)/Lt-2656, Date-23/09/2025 for an amount equivalent to Rs 19,43,000.00 (P.S-19,43,000.00) & Add. Security for unbalanced bid Rs-100.00) with in 21 day of the receipt of this L.O.A valid up to 28 Days from the date of Expiry of effect liabilities period i.e up to 45 day and sign the contract, failing which action as stated in Para 34.3 of ITB will be taken.

Your faithfully,

*[Signature]*  
Executive Engineer  
Rural Works Department  
Work Division, Narkatlaganj

Jai Bhawani Engicon Private Limited

Nidhi Kumari

**DIRECTOR.**

*[Signature]*  
Executive Engineer  
R.W.D. Work Division  
Narkatlaganj



**GOVERNMENT OF BIHAR  
RURAL WORKS DEPARTMENT**

Office of the Engineer-in-Chief,  
Rural Works Department, Bihar  
5<sup>th</sup> floor, Visvesvaraya Bhawan, Nehru Path, Patna-800015

DETAILED NOTICE INVITING TENDER (through e-procurement mode only  
<http://pmgsytendersbih.gov.in>)

for Construction and 06 year Routine Maintenance work (output and performance based) for Rural Road/Bridge under component of Mukhya Mantri Gram Sampark Yojana (AWSESH-SC).

**Notice Inviting Tender (No.-RWD/MMGSY(AWSESH-SC)/HQ/ET/2025-26/13)**

1. Designation and Address of the Advertiser : Engineer-in-Chief-cum-Additional Commissioner-cum-Special Secretary, Rural Works Department, Govt. of Bihar
2. Date of Notice Inviting Tender : 08.07.2025
3. Period for download of Tender Document : From 23.07.2025 to 31.07.2025 up to 15:00 hrs
4. Date, Time & Place of Pre-Bid meeting : Date 25.07.2025 at Concerned office of SE from 11:00 hrs
5. Last Date & Time for uploading tender documents by bidder : Date 31.07.2025 till 15:00 hrs.  
<http://pmgsytendersbih.gov.in>
6. Date and time of opening of Technical Bid : Date 31.07.2025 Time 15:30 hrs.
7. (i) Bid Security (EMD) and cost of BOQ shall be submitted Online. No other forms of Earnest Money (Bid Security) and cost of BOQ will be accepted. The Earnest Money deposited by the non-responsive bidder will be automatically refunded. In case the bid of non-responsive bidder is reconsidered whose EMD has been refunded automatically, will be collected and refunded manually in the shape of Fixed Deposit Receipt.  
(ii) Bidders are required to upload an Affidavit regarding correctness of Information furnished with bid document. Original Affidavit regarding correctness of Information furnished with Bid document shall be submitted at the time of signing of agreement.
8. The Engineer-in-chief-cum-Additional Commissioner-cum-Special Secretary / Engineer-in-chief, Rural Works Department on behalf of Governor of Bihar invites bids for the works detailed below.

**Project Scope & Duration:**

- I. Time allowed for completion (including rainy season) of each Road including Bridge having Bridge length upto 30m, is 12 months, if the length of bridge is more than 30m and upto 50m then time of completion will be 18 months and for bridges having length more than 50m, time of completion will be 24 months from date of issue of LOA.
- II. Construction of road/bridge may include road safety measures, tree plantation at the end of slope of road within Right of Way, as per contract document. The time of completion for Construction of road/bridge, road safety measures, tree plantation shall be of total 12/18/24 months as per NIT and Routine Maintenance work shall be of total 72 months. The total time to be given to the contractor for completing Construction of road/bridge, road safety measures, tree plantation and 06 years Routine Maintenance work will be 72 months from the date of agreement.
- III. During 06 years Routine Maintenance work (output and performance based), the roads/bridges will be kept as per prescribed service level, to maintain road for traffic worthy. The Maintenance work (output and performance based) will also include cross drainage works, minor works on bridges and roads.
- IV. The Routine Maintenance work will be carried out under output and performance based for which the payment will be done quarterly.
- V. For Rapid Response of Routine Maintenance work each bidder must have a Rapid Road Repair Vehicle.

**Bhawani Engicon Private Limited**

Nidhi Kumar

**DIRECTOR.**

19/11/25  
Executive Engineer  
R.W.D. Works Division  
Patna



27	MMGSY(AWSESH-SC)- Bagha-2-605	A1	<b>Part-A</b> Rupali Khaira tola Pmgsy Road	Baluhi	1.409	223.226	18.336	789.83
		B1	<b>Part-B</b> Construction of HL RCC Bridge Span 3x18.75 in Rupali Khaira Tola PMGSY Road to Baluhi, Approach Road- 200m		60.87m	545.326	2.942	
		I/I			1.670	768.552	21.278	
Total								
28	MMGSY(AWSESH-SC)- Bagha-2-606	A1	<b>Part-A</b> Jamuniya Mmgsy Road	Kachahri tola Bhitha	1.039	151.534	11.626	875.16
		B1	<b>Part-B</b> Construction of HL RCC Bridge Span 4x18.75 in Jamuniya MMGSY Road to Kachahri Tola Bhitha, Approach-200m		81.16m	708.454	3.549	
		I/I			1.320	859.988	15.175	
Total								
29	MMGSY(AWSESH-SC)- Bettiah-607	A1	<b>Part-A</b> Rwd Road Madarpur	Shahi Bazar	2.259	272.810	15.310	745.88
		B1	<b>Part-B</b> Construction of HL RCC Bridge Span 2x18.75 in RWD Road Madarpur to Shahi Bazar, Approach-200m		40.58m	455.450	2.310	
		I/I			2.500	728.260	17.620	
Total								
30	MMGSY(AWSESH-SC)- Bettiah-608	A1	<b>Part-A</b> PMGSY Dhawelwa	Gajna	1.964	233.930	10.450	830.64
		B1	<b>Part-B</b> Construction of HL RCC Bridge Span 3x18.75 in PMGSY Dhawelwa to Gajna, Approach Road-200m		60.87m	583.350	2.910	
		I/I			2.225	817.280	13.360	
Total								
31	MMGSY(AWSESH-SC)- Bettiah-609	A1	<b>Part-A</b> Panchayat Road, Ward 9	Ganga Thakur Gaw	1.489	237.230	19.360	857.17
		B1	<b>Part-B</b> Construction of HL RCC Bridge Span 3x18.75 in Panchayat Road, Wrd 9 to Ganga Thakur Gaw, Approach-200m		60.87m	597.670	2.910	
		I/I			1.750	834.900	22.270	
Total								
32	MMGSY(AWSESH-SC)- Bettiah-610	A1	<b>Part-A</b> Siyarahi Chouk	Balia Harijan Toli	3.250	415.560	36.890	904.93
		B1	<b>Part-B</b> Construction of HL RCC Bridge Span 2x18.75 in Siyarahi Chowk to Balia Harizon Tola, Approach Road-200m		40.50m	450.170	2.310	
		I/I			3.491	865.730	39.200	
Total								
33	MMGSY(AWSESH-SC)- Narkatiaganj-611	A1	<b>Part-A</b> TMC Madhopur Mauje	Balua	1.474	198.560	17.880	1136.72
		B1	<b>Part-B</b> Construction of HL RCC Bridge Span 5x18.75m TMC Madhopur Mauje to Balua, Approach Road-200m		101.25 m	916.030	4.250	
		I/I			1.775	1114.590	22.130	
Total								
34	MMGSY(AWSESH-SC)- Phulparas-612	A1	<b>Part-A</b> Ghoghardiha Hatni RCD Road near Ara Machine	Kamat Tola and Mahadalit Tola Alola	2.242	335.822	32.933	872.71
		B1	<b>Part-B</b> Construction of HL Bridge With 200m Approach in Ghoghardiha Hatni RCD Road near Ara Machine to Kamat Tola and Mahadalit Tola Alola Road		58.12m	499.500	4.451	
		I/I			2.500	835.322	37.384	
Total								
35	MMGSY(AWSESH-SC)- Phulparas-613	A1	<b>Part-A</b> Jagatpur	Garatole	1.626	177.621	14.897	412.31
		B1	<b>Part-B</b> Construction of RCC Box Bridge 3x7x6m with 200m Approach in Jagatpur to Gartole Road		23.20 m	215.721	4.071	
		I/I			1.849	393.342	18.968	
Total								



20. All bidders shall upload Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past five years. Audit Reports without UDIN (Unique Document Identification Number) will not be considered.
21. Before uploading tenders, bidders are advised to go through the General Conditions, Particular Conditions and the other conditions of the CMBD for MMGSY (AWSESH) uploaded with the tender document.
22. In compliance of the order passed by Hon'ble Patna High Court, Patna on 06.07.2023 in CWJC No. - 9941/2022, the departmental letter no. 292(WE) dated 17-01-2020 will be applicable i.e. the threshold limit (up to below 10%) has been abolished.
23. Contractor will have to deposit additional performance guarantee for seriously unbalanced rate quoted by bidder at the time of agreement as per RCD Notification No. 447(s)-cum-Memo no. 448 (s), dated 16.01.2020 and RWD letter no. 292 (we), dated 17.01.2020.
24. Bids from joint ventures (joint venture allowed for the total tender value more than Rs. 20 crore) are allowed as per the eligibility criteria.
25. In the unlikely event of the server for <http://pmgsytendersbih.gov.in> being down for more than two consecutive hours (in the period from midnight to closing time for receipt of tenders) on the last date of receiving of bid, the last date of the same shall automatically be extended to next working day till the last receiving time stipulated in the original NIT.
26. The bidders are requested to check their file size of uploaded documents at the time of submission & they should ensure that work file is uploaded. If they feel that the complete file is not uploaded then they should click on cancel & update the same before submission. The bidders should satisfy themselves of Download ability / visibility of the scanned & uploaded file by them.
27. The bidders are directed to zip their files using WinZip or WinRAR software only. Other formats of zipping will not be accepted and will be rejected.
28. File size should be less than 5MB and should be MS Word, MS Excel, PDF and JPEG Formats.
29. No claim shall be entertained on account of disruption of internet service being used by bidders. Bidders are advised to upload their bids well in advance to avoid last minute technical snags.
30. Bidders are advised to note the minimum qualification criteria specified in Clause 4; Section I of the Instructions to Bidders and Section III Evaluation and Qualification Criteria to qualify for the award of the contract.
31. Bidders should have valid registration with employees provident fund organization under EPF and miscellaneous act, 1952.
32. The result of evaluation of Part-I (Technical Bid) shall be made public on e-procurement following which there will be a period of 5 Working days from the date of uploading the result of Technical Bid Evaluation during which bidders, who participated in the bid, may submit complaint which may be considered for resolution before opening of part-II (Financial bid) of the bid. Any complaint received from bidders beyond 5 working days from the date of uploading of result of Technical Bid shall not be entertained.

In case the decision is changed after redressal of complaint of all issues raised by bidders during the 5 working days already allotted, then further 3 working days from the date of uploading of Re-technical result will be allotted. During this period, representation /complaint regarding only about the change in the decision of the committee in the Re-technical Evaluation shall be entertained. No fresh complaint on other bidders / issues shall be considered.

In case if there is no change in the result after re-technical evaluation then the process of opening of financial bid / retender shall be done as per direction in the minutes of meeting of the re-technical evaluation.

Complaint shall be entertained only on the items, necessary to make a bid substantially responsive, that is on the items mentioned in ITB 24.2 Any complaint/Representation as above shall be on Affidavit supported with evidence.

Any Complaint without evidence & affidavit shall not be entertained.

Bhawani Engicon Private Limited


Midhi Kumari

DIRECTOR.

Executive Engineer  
R.W.D. Works Division  
Bhagalpur



33. The Engineer in Chief-cum-Additional Commissioner-cum- Special Secretary/ Engineer in Chief reserves the right to accept or reject any bid and to cancel bidding process and reject all bids, at any time prior to the award of the contract without assigning any reason thereof.
34. All Documents uploaded online by the bidders including affidavits shall be considered in technical bid evaluation but after award all the documents may be duly verified.
35. Successful bidder must submit **Character Certificate** and **GST Clearance Certificate** before agreement.
36. Evaluation of Part-I (Technical Bid) of bids with respect to Bid Security and qualification information furnished in Part-I of the bid shall be taken up and completed as far as possible within five working days of the date of bid opening, and a list will be drawn up of the qualified bidders whose Part-II of bids are eligible for opening.
37. Under Construction and 06 years Maintenance work (output and performance based) for Rural Road/Bridge under component of Mukhya Mantri Gram Sampark Yojana (AWSES&SC), maximum number of packages awarded in one financial year is limited to 05 (Five) even though the bidder has the available bid capacity as per ITB clause-4.6. In case a substantially responsive bidder is lowest in more than 05 (Five) packages, then 05 (Five) packages shall be awarded as per as ascending order of quoted rate. For example if rate quoted are (-)02%, (-)05%, (-)07%, (-)12%, equal to BOQ rate & (-)12%, then first of all the package shall be awarded to the bidder in which he has quoted (-)12%, (-)07%, (-)05%, then (-)02% and so on.
38. It shall be the responsibility of the bidder to comply with all statutory requirements of Central and State Government.
39. The Total Estimated Cost and Earnest money is indicative and the actual amount of earnest money will be as per uploaded BOQ.
40. Other details can be seen in bidding document.

  
 Engineer-in-Chief-cum-Additional  
 Commissioner-cum-Special Secretary,  
 RWD, Patna.


MEMO-BRRDA(HQ)-MMGSY-SC-163/25

1596

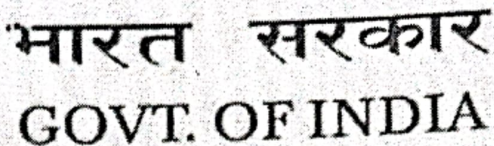
Date: 05/12/25

Copy to kind information and necessary action to :-

1. Nodal officer, E-advertisement Cum E-tendering cell, RWD, Patna.
2. IT Nodal, RWD, Patna.
3. P.A to Engineer- in- chief, RWD, Patna.
4. Concerned Executive Engineer, RWD (W) Division.

  
 Engineer-in-Chief-cum-Additional  
 Commissioner-cum-Special Secretary,  
 RWD, Patna.

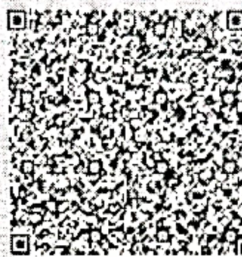




ई- स्थायी लेखा संख्या कार्ड  
e - Permanent Account Number (e-PAN) Card  
AAGCJ5079D

14 / Name JAI BHAWANI ENGICON PRIVATE LIMITED

Date of Incorporation / Formation 05/07/2024



- ✓ Permanent Account Number (PAN) facilitate Income Tax Department linking of various documents, including payment of taxes, assessment, tax demand tax arrears, matching of information and easy maintenance & retrieval of electronic information etc. relating to a taxpayer.  
स्थायी लेखा संख्या (पैन) एक करदाता से संबंधित विभिन्न दस्तावेजों को जोड़ने में आसकर विभाग को सहायक होता है, जिसमें करों के मुआवजा, आकलन, कर मांग, टैक्स बकाया, सूचना के मिलान और इलेक्ट्रॉनिक जानकारी का आसान रखरखाव व बहाली आदि भी शामिल है।
- ✓ Quoting of PAN is now mandatory for several transactions specified under Income Tax Act, 1961 (Refer Rule 114B of Income Tax Rules, 1962)  
आसकर अधिनियम, 1961 के तहत निर्दिष्ट कई लेनदेन के लिए स्थायी लेखा संख्या (पैन) का उद्धरण अब अनिवार्य है (आसकर नियम, 1962 के नियम 114B. का संदर्भ लें)
- ✓ Possessing or using more than one PAN is against the law & may attract penalty of upto Rs. 10,000.  
एक से अधिक स्थायी लेखा संख्या (पैन) का रखना या उपयोग करना, कानून के विरुद्ध है और इसके लिए 10,000 रुपये तक का दंड लगाया जा सकता है।
- ✓ The PAN Card enclosed contains Enhanced QR Code which is readable by a specific Android Mobile App. Keyword to search this specific Mobile App on Google Play Store is "Enhanced QR Code Reader for PAN Card".  
संलग्न पैन कार्ड में एनहांस कोड शामिल है जो एक विशिष्ट एंड्रॉइड मोबाइल ऐप द्वारा पठनीय है। Google Play Store पर इस विशिष्ट मोबाइल ऐप को खोजने के लिए कीवर्ड "Enhanced QR Code Reader for PAN Card" है।

Ein

<p><b>आयकर विभाग</b> INCOME TAX DEPARTMENT</p>	<p><b>भारत सरकार</b> GOVT. OF INDIA</p>	<p>इस कार्ड के कोने/पाने पर कृपया चिपकाने की/संजरे:</p> <p>आयकर के लिए प्रमाण, प्रमाणित कर दस्तावेजों को संवेदन</p> <p>पत्र के अनुसार (अथवा) अन्य दस्तावेजों के अनुसार</p> <p>कोई भी अन्य दस्तावेज</p> <p>आयकर विभाग</p> <p>पत्र - 1/1/1/1/1</p>
<p>परमनंत आयकर नंबर कार्ड Permanent Account Number Card</p> <p><b>AAGCJ5079D</b></p>		<p>If this card is lost / someone's lost card is found please inform / return to :</p> <p>Income Tax PSO, District Unit, Government of India, New Delhi</p> <p>Income Tax PSO, District Unit, Government of India, New Delhi</p> <p>Income Tax PSO, District Unit, Government of India, New Delhi</p> <p>Income Tax PSO, District Unit, Government of India, New Delhi</p>
<p>जय भावानी एंग्लो प्राइवेट लिमिटेड JAI BHAWANI ENG CON PRIVATE LIMITED</p> <p>आयकर नंबर कार्ड नंबर Income Tax Card Number</p> <p>05/07/2024</p>		<p>Income Tax PSO, District Unit, Government of India, New Delhi</p> <p>Income Tax PSO, District Unit, Government of India, New Delhi</p> <p>Income Tax PSO, District Unit, Government of India, New Delhi</p> <p>Income Tax PSO, District Unit, Government of India, New Delhi</p>

Electronically issued and Digitally signed ePAN is a valid mode of issue of Permanent Account Number (PAN) post amendments in clause (c) in the Explanation occurring after sub-section (8) of Section 139A of Income Tax Act, 1961 and sub-rule (6) of Rule 114 of the Income Tax Rules, 1962. For more details, [click here](#)

Lawani Engicon Private Limited

Nidhi Kumar  
DIRECTOR

Executive Engineer  
R.W.D. Works Division  
Malkajgiri



**MUKHYAMANTRI GRAMIN SADAK YOJANA MMGSY (Awshesh) SC**

**BILL OF QUANTITIES (BOQ) - CONSTRUCTION**

Name of Road :	TMC Madhopur Mauje To Balua				
Block :	Gaunaha	District :- West Champaran			
Length :	1.474 km				
Sl. No.	Description of Items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
1	Setting Out Pillars :- Providing & Fixing of Working benchmark Pillars 01 nos. per km & 04 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I	1.47 ✓	Km	13,894.93 ✓	20425.55
2	Clearing and Grubbing Road Land Clearing and Grubbing Road Land ( By manual means) including uprooting wild vegetation , grass ,bushes ,shrubs , saplings and trees of girth upto 300mm , removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification - clause 201.1 and direction of E/I ( By Manual Means) In area of non-thorny jungle	0.48 ✓	Hect.	75,360.38 ✓	36172.98
3	Cutting of Trees including Cutting of Trunks, Branches and Removal of Stumps Cutting of trees, including cutting of trunks, branches and removal of stumps & roots, refilling, compaction of backfilling and stacking of serviceable material by manual means with all lifts as per Technical Specification Clause 201.7				
	Girth above 300 mm to 600 mm	12.00 ✓	Each	352.90 ✓	4234.80
4	Girth above 600 mm to 900 mm	8.00 ✓	Each	611.21 ✓	4889.68
5	Removal of Telephone/Electric Poles and Lines Removal of telephone/electric poles with wires including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and upto a lead of 1000 m and stacking the serviceable and unserviceable material separately as per Technical Specification Clause 202.	10.00 ✓	No	246.41 ✓	2464.10
6	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 100 m as per Technical Specification Clause 301.5	3050.90 ✓	Cum	147.61 ✓	450343.35
7	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	78.66 ✓	Cum	239.97 ✓	18876.04
8	Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m & 100 m as per Technical Specification Clause 303.1. (Including Royalty & Labour Cess).	3879.25 ✓	Cum	243.24 ✓	943588.77

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Name of Road :	TMC Madhopur Mauje To Balua				
Block :	Gaunaha	District :- West Champaran			
Length :	1.474 km				
Sl. No.	Description of Items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
9	Granular Sub-base with Well Graded Material (Table 400.1) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. (For Grading II Material)	724.19 ✓	Cum	2,961.93 ✓	2145000.09
10	WBM Grading 2 :- Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading 2 as per Technical Specification Clause 405.	343.89 ✓	Cum	6,283.38 ✓	2160791.55
11	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 grader in sub-base/base course on a well surface and compacting with vibratory roller to achieve the desired density.	422.78 ✓	Cum	5,171.20 ✓	2186280.00
12	Prime Coat (Low Porosity) :- Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0kg/sqm using mechanical means as per Technical Specification Clause 502	4585.22 ✓	Sqm	57.34 ✓	262917.00
13	Tack Coat:- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25-0.30kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	4585.22 ✓	Sqm	19.73 ✓	90466.00
14	Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.9 mm (Type-A) or 13.2 mm to 0.9 mm (Type-B) aggregates using penetration grade 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 three wheel 8-10 kN static roller and finishing to required level and grades as per Technical Specification Clause 509	4585.22 ✓	Sqm C/	324.18 ✓	1486436.62

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Name of Road :	TMC Madhopur Mauje To Balua				
Block :	Gaunaha	District :- West Champaran			
Length :	1.474 km				
Sl. No.	Description of Items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
15	Construction of un-reinforced, plain cement concrete pavement (M35 Grade) over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form paver, spread, compacted and finished in a continuous operation including provision of 0.5 x 0.5 panel, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, admixtures as approved, curing compound, finishing to lines and grades as per drawing	105.19 ✓	Cum	8,581.24 ✓	902661.00
16	Laying brick soling layer on prepared sub-grade with brick on end edging according to lines, graded and cross-section shown on the drawing filling joints with sand and earth, spreading 25 mm thick layer of earth over brick soling, watering and rolling the same with three wheel road roller 80-100 kN as per Technical Specification Clause 412	140.25 ✓	Sqm	500.49 ✓	70194.00
	TRAFFIC SIGNS, MARKINGS & OTHER ROAD APPURTENANCES				
17	Kilometre Stone				
	Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and Technical Specification Clause 1703				
	Ordinary Kilometer Stone (Precast)	2.00 ✓	Each	3,167.67 ✓	6335.34
18	200 m stone (precast)	8.00 ✓	Each	836.05 ✓	6688.40
19	(I) Providing and Fixing 'Logo' of PMGSY Project :- Providing and fixing of typical PMGSY informatory sign board with Logo as per MORD specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5m size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	4.00 ✓	Each	11,216.35 ✓	44865.40
20	Printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade as per drawings and Technical Specification Clause 1701	176.00 ✓	per cm height per letter	0.74 ✓	130.24

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Name of Road :	TMC Madhopur Mauje To Balua				
Block :	Gaunaha	District :- West Champaran			
Length :	1.474 km				
Sl. No.	Description of Items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
21	Boundary Pillar/Gaurd Post :- Reinforced cement concrete M15 grade boundary pillars/local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per drawing and Technical Specification Clause 1704	52.00 ✓	No	639.73 ✓	33265.96
22	Rumble Strips : Provision of 15 nos rumble strips covered with premix bituminous carpet, 15-20 mm high at center, 250 mm wide placed at 1 m center to center at approved locations to control speed, marked with white strips of road marking paint.	10.13 ✓	Sqm	1,102.58 ✓	11169.14
23	Traffic Signs :- Providing and fixing of Retro reflective cautionary , mandatory and informatory sign board as per IRC :67 made of 1.5 mm thick MS steel duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade as per clause 1701.3.9 of MORD for rural road of required shade and colour supported and welded on 47mmx47mmx12swg sheet tube firmly fixed to the ground by mean of properly designed foundation with M15 grade cement concrete 450x450x600 mm ,600mm below ground level as per approved drawing clause 1701.2.2.				
	900 mm equilateral & triangle , OR	2.00 ✓	Each	6,141.25 ✓	12282.50
24	600 mm equilateral & triangle, OR	4.00 ✓	Each	4,089.41 ✓	16357.64
25	600 mm circular , OR	4.00 ✓	Each	5,430.18 ✓	21720.72
26	600 mm x 450 mm rectangular, OR	4.00 ✓	Each	5,292.94 ✓	21171.76
27	900 mm side octagon, OR	2.00 ✓	Each	9,536.96 ✓	19073.92
28	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Concrete Surface :- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.	55.00 ✓	Sqm	879.72 ✓	48384.60
29	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface :- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.	239.75 ✓	Sqm	778.40 ✓	186621.40
30	Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year	48.00 ✓	Each	1,248.07 ✓	59907.36

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Name of Road :	TMC Madhopur Mauje To Balua				
Block :	Gaunaha	District :- West Champaran			
Length :	1.474 km				
Sl. No.	Description of Items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
<b>Cross Drainage Works</b>					
31	Irrigation Pipe (300MM Dia) Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:981997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings.	50.00 ✓	RM	1,000.80 ✓	50040.00
	<b>Dismant</b>				
32	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 m as per Technical Specification Clause 202.				
	Cement Concrete	2.91 ✓	Cum	670.71 ✓	1951.77
33	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of brick masonry, including disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 m as per Technical Specification Clause 202.				
	Cement mortar	30.44 ✓	Cum	307.62 ✓	9363.95
34	Removing all types of Hume pipes and stacking including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202.				
	Above 900 mm dia Hume pipe	7.50 ✓	RM	597.66 ✓	4482.45
<b>Box Culverts</b>					
<b>Foundation</b>					
35	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.	129.76 ✓	Cum	80.87 ✓	10493.69
36	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	14.92 ✓	Cum	8,117.76 ✓	121116.98
37	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-20 Grade	47.06 ✓	Cum	8,832.23 ✓	415644.74
38	Supplying, fitting and placing HYSD bar reinforcement in foundation complete as per drawings and technical specifications Clauses 1000 and 1202	0.20 ✓	MT	65,189.26 ✓	13037.85

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Name of Road :	TMC Madhopur Mauje To Balua				
Block :	Gaunaha	District :- West Champaran			
Length :	1.474 km				
Sl. No.	Description of Items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
<b>Sub Structure</b>					
39	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 ans 1204 PCC M-20 Grade	26.05 ✓	Cum	9,112.59 ✓	237382.97
40	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification Clauses 614, 709, 1204.3.7	72.00 ✓	Nos	135.01 ✓	9720.72
41	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 ans 1204 RCC M-25 Grade	25.05 ✓	Cum	9,697.55 ✓	242923.63
42	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	2.25 ✓	MT	65,397.45 ✓	147144.26
43	Backfilling behind abutment, wing wall and return wall complete as per drawings & technical specification Clause 1204.3.8 (With Sandy Materials )	56.21 ✓	Cum	913.96 ✓	51373.69
44	Providing and laying filter media with granular crushed aggregates as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and technical specification Clause 1204.3.8	41.61 ✓	Cum	4,713.48 ✓	196127.90
<b>Superstructure</b>					
45	Providing and laying reinforced cement concrete in superstructure as per drawing and technical specifications Clauses 800, 1205.4 and 1205.5 RCC M-30 Grade	9.38 ✓	Cum	10,396.45 ✓	97518.70
46	Supplying, fitting, and placing HYSD bar reinforcement in superstructure complete as per drawing and technical specifications Clauses 1002, 1010 and 1202	0.98 ✓	MT	66,914.11 ✓	65575.83
47	Parapet Construction Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 ans 1204 ( M25 )	2.40 ✓	Cum	10,149.60 ✓	24359.04
48	Painting on Parapet Wall (Black & White Strips) Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	17.92 ✓	Sqm	129.57 ✓	2321.89
49	Drainage spouts complete as per drawing and technical specifications Clause 1209	8.00 ✓	Nos	927.82 ✓	7422.56

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Name of Road :	TMC Madhopur Mauje To Balua				
Block :	Gaunaha	District :- West Champaran			
Length :	1.474 km				
Sl. No.	Description of Items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
<b>Hume Pipe Culverts</b>					
50	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	49.64 ✓	Cum	80.87 ✓	4014.39
51	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	6.53 ✓	Cum	8,117.76 ✓	53008.97
52	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 ( M20 (PCC 1:2.5:5)	27.68 ✓	Cum	9,112.59 ✓	252236.49
53	Providing and laying RCC pipe NP-4 for culverts on first class bedding of PCC M10 material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling concrete and masonry works in head walls and parapets as per clause 1106 - 1000 mm Dia Pipe	7.50 ✓	RM	7,442.66 ✓	55819.95
54	Painting on Parapet Wall (Black & White Strips) Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	20.64 ✓	Sqm	129.57 ✓	2674.32
<b>5TH YEAR PERIODIC RENEWAL</b>					
55	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Primer and cleaned with hydriloc broom as per technical specification clause 503.	4585.22 ✓	Sqm	19.73 ✓	90466.39
56	Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects.	114.63 ✓	Cum	14,885.90 ✓	1706370.72
57	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes. (Flexible Pavement)	239.75 ✓	Sqm	778.40 ✓	186621.40

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Name of Road :	TMC Madhopur Mauje To Balua				
Block :	Gaunaha	District :- West Champaran			
Length :	1.474 km				
Sl. No.	Description of Items	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
58	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes. (Rigid Pavement)	55.00 ✓	Sqm	879.72 ✓	48384.60
Construction Cost (A) :-					15381315.76
(59)	Add Labour @ 1% on Construction Cost (A) :-				153813.16
(60)	Add 10% S.F on Basic Materials Cost :-				206818.14
Sub Total Construction Cost (Including 1% Labour Cess & 10% S.F):-					15741947.06
(61)	Add GST @ 18% on Sub Total Construction Cost (Including 1% Labour Cess & 10% S.F):-				2833550.47
Total Construction Cost (A) :-					18575497.54
(62) 59	1st Year Maintenance cost	1.00	Year	219633.00	219633.00
(63) 60	2nd Year Maintenance cost	1.00	Year	281856.44	281856.44
(64) 61	3rd Year Maintenance cost	1.00	Year	287577.00	287577.00
(65) 62	4th Year Maintenance cost	1.00	Year	369234.00	369234.00
(66) 63	6th Year Maintenance cost	1.00	Year	161197.00	161197.00
(67) 64	7th Year Maintenance cost	1.00	Year	192368.00	192368.00
Maintenance Cost (B) :-					1511865.44
(68)	Add Labour @ 1% on Maintenance Cost (A) :-				15118.65
(69)	Add 10% S.F on Basic Materials Cost :-				17217.75
Sub Total Maintenance Cost (Including 1% Labour Cess & 10% S.F):-					1544201.85
(70)	Add GST @ 18% on Sub Total Maintenance Cost (Including 1% Labour Cess & 10% S.F):-				277956.33
Total Maintenance Cost (B) :-					1822158.18
Total Project Cost(A+B)					20397655.71

Clear ✓  
 24/07/20 ✓  
 2417125



# RURAL WORKS DEPARTMENT

( Rural Works Department, Govt. of Bihar)

## BILL OF QUANTITY

NAME OF ROAD :	TMC Madhopur Mauje To Balua				
BLOCK	Gaunaha				
DISTRICT	West Champaran				
Sl. No.	Item Description	Unit	Quantity	Rate	Amount (in Rs.)
	<b>FOUNDATION</b>				
1	<b>Excavation for Structures</b> Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.				
	I. Ordinary Soil				
	i) Upto 3m depth	Cum	1,196.82	117.06	140099.75
2	Providing and laying of PCC M15 levelling course 100mm thick below the pile cap.				
	II. PCC Grade M-15 (Levelling Course for Pile Cap)	Cum	42.79	8,230.71	352192.08
3	R.C.C. grade M 30 in Pile Foundation complete as per Dwg & Tech Specification.				
	Pile Cap in RCC M-30 (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	545.28	8,484.62	4626493.59
4	Bored cast-in-situ M35 grade R.C.C. Pile excluding Reinforcement complete as per Drawing and Technical Specifications and removal of excavated earth with all lifts and lead upto 1000 m.				
	II. 1200 mm Dia (Using Batching Plant, Transit	m	952.00	17,310.82	16479900.64
5	Supplying, fitting and placing HYSD bar reinforcement in foundation complete as per drawings and technical specifications Clauses 1000 and 1202	MT	149.40	69,502.89	10383731.77
6	Providing steel liner 10 mm thick for curbs and 6mm thick for steining of wells including fabricating and setting out as per detailed drawing	MT	14.20	94,016.47	1335033.87
7	Providing and Constructing Temporary Earth Island (Assuming depth of water 1.0 m and height of island to be 1.25 m including Royalty for earth @ Rs. 5526.00 for each Island.)	No.	4.00	47,176.14	188704.56
8	Providing and constructing one span service road to reach island location from one pier location to another pier location including Royalty for earth @ Rs. 225.00 per m for service Road.	Rm	101.25	4,018.93	406916.66
9	Carrying out load test on any pile as per standard procedure laid down in the IS:2911 specification including construction of test cap, dismantling the cap after test and cleaning the site and maintaining complete records of load a) Initial Load Test on test pile for 2.5 times the design load specified in Drawings				
	1.2 m Dia Pile	Nos.	1.00	2,00,000.00	200000.00
10	b) Routine pile load test on pile for 1.5 times the design load specified in Drawings				
	1.2 m Dia Pile (2% of piles in total).	Nos.	1.00	1,50,000.00	150000.00
11	c) Horizontal pile load test on pile for 1.5 times the design load specified in Drawings				
	1.2 m Dia Pile (2% of piles in total) .	Nos.	1.00	1,00,000.00	100000.00

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NAME OF ROAD :	TMC Madhopur Mauje To Balua				
BLOCK	Gaunaha				
DISTRICT	West Champaran				
Sl. No.	Item Description	Unit	Quantity	Rate	Amount (in Rs.)
	<b>SUBSTRUCTURE</b>				
12	R.C.C. grade M-30 in Substructure complete as per Dwg & Tech Specification RCC M-30 (Using Batching Plant, Transit Mixer and Concrete Pump) i) Upto 5m height (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	189.53	9,130.99	1730596.53
13	ii) From 5m upto 10m height (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	215.01	9,388.32	2018582.68
14	R.C.C. grade M-35 in Substructure complete as per Dwg & Tech Specification RCC M-35 (Using Batching Plant, Transit Mixer and Concrete Pump) ii) From 5m upto 10m height (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	19.38	9,479.39	183710.58
15	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	MT	82.92	69,724.96	5781593.68
16	Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications.	cc	7,56,450.00	0.87	658111.50
17	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification Clauses 614, 709, 1204.3.7	Nos	192.00	144.07	27661.44
18	Backfilling behind abutment, wing wall and return wall complete as per drawings & technical specification Clause 1204.3.8 i) Sandy Material	Cum	204.31	916.47	187243.99
19	Providing and laying filter media with granular crushed aggregates (Jhama Metal) as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and technical specification Clause 1204.3.8	Cum	117.08	4,687.40	548800.79
	<b>SUPERSTRUCTURE</b>				
20	Providing and laying reinforced cement concrete in superstructure complete as per drawing and technical specifications Clauses 800, 1205.4 and 1205.5 II. RCC M-30 (Using Batching Plant, Transit Mixer and	Cum	393.70	10,722.35	4221389.20
21	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in superstructure complete as per drawings and technical specification Clauses 1002, 1010 & 1202	MT	63.26	71,342.73	4513141.10
22	Providing and laying cement concrete wearing course M-30 grade including reinforcement complete as per drawing and technical specifications Clauses 800 and 1206.3	Cum	61.25	17,004.12	1041502.35
23	Construction of R.C.C. railing of M 30 grade in cast-in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical railing post not to exceed 1 in 500, centre-to-centre spacing between vertical posts not to exceed 2000 mm as per drawing and technical specifications Clauses 800, 900 and 1208.3	m	217.78	2,245.93	489118.64
24	Drainage Spouts complete as per drawing and technical specifications Clause 1209	No	40.00	1,311.21	52448.40

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NAME OF ROAD :	TMC Madhopur Mauje To Balua				
BLOCK	Gaunaha				
DISTRICT	West Champaran				
Sl. No.	Item Description	Unit	Quantity	Rate	Amount (in Rs.)
25	P.C.C. M-15 ordinary grade (1:2.5:5) levelling course below approach slab complete as per drawing and technical specifications Clauses 800 & 1211.	cum	7.16	8,230.71	58931.88
26	Reinforced Cement Concrete M-30 grade approach slab including reinforcement and formwork complete as per drawing and technical specifications Clauses 800 and 1211	cum	16.97	13,248.41	224825.52
27	Strip Seal Expansion Joint (Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	m	50.70	12,605.38	639092.77
<b>PROTECTION WORK</b>					
28	Providing and laying boulder pitching on slopes laid over prepared filter media as per drawing and technical specifications Clause 1302	cum	367.74	3,938.29	1448266.76
29	Providing and laying filter material underneath pitching in slopes complete as per drawing and technical specifications Clause 1302	cum	143.54	4,808.98	690280.99
<b>E. APPROCH ROAD</b>					
30	Clearing and Grubbing Road Land ( By manual means) including uprooting wild vegetation , grass ,bushes ,shrubs , saplings and trees of girth upto 300mm , removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification - clause 201.1 and direction of E/I	Ha	0.18	75,360.38	13564.87
31	Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m , transporting to the site spreading , grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	Cum	5,556.00	239.97	1333273.32
32	Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1.	Cum	622.50	243.24	151416.90
33	Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	Cum	109.87	2,961.93	325427.25
34	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per Technical Specification Clause 405.	Cum	61.68	6,283.38	387558.88
35	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 grader in sub-base/base course on a well surface and compacting with vibratory roller to achieve the desired density.	Cum	61.68	5,171.20	318959.62

ref



NAME OF ROAD :	TMC Madhopur Mauje To Balua				
BLOCK	Gaunaha				
DISTRICT	West Champaran				
Sl. No.	Item Description	Unit	Quantity	Rate	Amount (in Rs.)
36	<b>Prime Coat (Low porosity)</b> Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70- 1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	822.38	57.34	47155.27
37	<b>Tack Coat</b> Providing and applying tack coat with bitumen emulsion (RS ) using emulsion distributor @ 0.2 to 0.25 kg per sq m on the prepared bituminous surface cleaned with hydraulic broom as per technical specification clause 503.	Sqm	822.38	19.73	16225.56
38	<b>Mix Seal Surfacing Type B</b> Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.9 mm (Type-A) or 13.2 mm to 0.9 mm (Type-B) aggregates using penetration grade 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 three wheel 8-10 kN static roller and finishing to required level and grades as per Technical Specification Clause 509 Type B	Sqm	822.38	324.18	266599.15
39	Providing and Fixing 'Logo' of Project informayory sign board with Logo as per MORD specifications and drawing. Three MS plates of 1.6mm thick, top and middle plate duly welded with MS flat iron 25mm x 5 m size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 Nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600 mm, 600 mm, 600 below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12SWG steel plate tube. All M.S will be stove enameled on both sides. Lettering and printing arrows, border etc, will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 abd Annexure 1700.1.	Nos	3.00	11,216.35	33649.05
40	<b>Metal Beam Crash Barrier</b> Type - A, "W" : Metal Beam Crash Barrier Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 810	RM	200.00	3,160.77	632154.00
41	<b>Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface</b> Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.	Sqm	40.00	778.40	31136.00

sep



NAME OF ROAD :	TMC Madhopur Mauje To Balua				
BLOCK	Gaunaha				
DISTRICT	West Champaran				
Sl. No.	Item Description	Unit	Quantity	Rate	Amount (in Rs.)
42	Road Markers/Road Stud with Lens Reflector Providing and fixing of road stud 100 x 100 mm die cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling holes 30 mm upto a depth of 600 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS:873 (Part 4) 1973.	Nos	200.00	274.18	54836.00
<b>E. DIVERSION</b>					
43	Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m , transporting to the site spreading , grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	Cum	1,350.00	239.97	323959.50
44	Granular Sub-base with Well Graded Material (Table 400.1) Grading II -Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	Cum	84.38	2,961.93	249927.65
45	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row	m	22.50	7,442.66	167459.85
<b>5th Year Periodic Renewal cost</b>					
46	Providing and applying tack coat with bitumen emulsion (RS ) using emulsion distributor @ 0.25 to 0.30 kg per sq m on the prepared Granular Treated with Prime & cleaned with hydraulic broom as per technical specification clause 503.	Sqm	765.00	19.73	15093.45
47	Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects.	cum	19.13	14,885.90	284767.27

all



NAME OF ROAD :	TMC Madhopur Mauje To Balua				
BLOCK	Gaunaha				
DISTRICT	West Champaran				
Sl. No.	Item Description	Unit	Quantity	Rate	Amount (in Rs.)
48	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	40.00	778.40	31136.00
Construction Cost :-					63562671.30
Add Labour @ 1% on Construction Cost :-					635626.71
Add S.F on Basic Materials Cost :-					398244.85
Sub Total Construction Cost (Including 1% Labour Cess & S.F):-					64596542.86
Add GST @ 18% on Sub Total Construction Cost (Including 1% Labour Cess & S.F):-					11627377.71
Total Construction Cost (A) :-					76223920.58
52-49	1st Year Maintenance cost	Year	1.000	59197.00	59197.00
53-50	2nd Year Maintenance cost	Year	1.000	62254.00	62254.00
54-51	3rd Year Maintenance cost	Year	1.000	65874.00	65874.00
55-52	4th Year Maintenance cost	Year	1.000	69118.00	69118.00
56-53	6th Year Maintenance cost	Year	1.000	72363.00	72363.00
57-54	7th Year Maintenance cost	Year	1.000	75608.00	75608.00
Maintenance Cost :-					404414.00
Add Labour @ 1% on Maintenance Cost :-					4044.14
Add S.F on Basic Materials Cost :-					1220.73
Sub Total Maintenance Cost (Including 1% Labour Cess & S.F):-					409678.87
Add GST @ 18% on Sub Total Maintenance Cost (Including 1% Labour Cess & S.F):-					73742.20
Total Maintenance Cost (B) :-					483421.07
Total Cost(A+B):-					76707341.64
Grand Total Cost(Road+Bridge)					97104997.35

Say Rs 97,10,4997/-

24/7/24

Part A (Road)

Bill of Quantity Approved as corrected for item No. ① to ⑦① and Part B (Bridge) ① to ⑥① for Rs 97,10,4997/- (Rupees Nine crore Seventy one lacs Four thousand Nine hundred ninety seven only)

including Six Years Maintenance

Certified Copy

अधीक्षण अभियन्ता  
ग्रामीण कार्य विभाग  
महो अंचल, देतिया  
24.7.24

अधीक्षण अभियन्ता  
ग्रामीण कार्य विभाग  
कार्य अंचल, देतिया