



Government of Jammu & Kashmir
Project Management Unit
Jhelum & Tawi Flood Recovery Project (JTFRP)
JKERA Commercial Complex Rambagh Srinagar.



No:JTFRP/PMU/Camp/777/329

Date:28-11-2019

**Sub: Corrigendum No 03 to tender No Revised/Roads/Kashmir/03 - Upgradation of :
Rambagh to Civil Secretariat IG Road, Eastern Foreshore Road, Peerbagh to Humhama IG
Road & Parimpura to Soibugh Road.**

The Following Changes are being made in the Bid Document

1. The package is hereby divided into following lots:

Lot 1 : Upgradation of Rambagh to Civil Secretariat IG Road

Lot 2 : Upgradation of Eastern Foreshore Road

Lot 3: Upgradation of Peerbagh to Humhama IG Road

Lot 4: Upgradation of Parimpura to Soibugh Road.

The Bidders can bid for individual Lots or whole Package. The Lotwise qualification Criteria and other details are as follows:

Lot No	Description	Bid Security (INR)	Time of Completion
Lot 1	Upgradation of Rambagh to Civil Secretariat IG Road	19 Lac	12 Months, plus DLP of 1 year reckoned from the date of issue of completion certificate.
Lot 2	Upgradation of Eastern Foreshore Road	29 Lac	18 Months, plus DLP of 1 year reckoned from the date of issue of completion certificate.
Lot 3	Upgradation of Peerbagh to Humhama IG Road	14 Lac	12 Months, plus DLP of 1 year reckoned from the date of issue of completion certificate.
Lot 4	Upgradation of Parimpura to Soibugh Road.	18 Lac	12 Months, plus DLP of 1 year reckoned from the date of issue of completion certificate.
All Lots	Upgradation of : Rambagh to Civil Secretariat IG Road, Eastern Foreshore Road, Peerbagh to Humhama IG Road & Parimpura to Soibugh Road.	80 Lac	18 Months, plus DLP of 1 year reckoned from the date of issue of completion certificate.

Note: The Cost of Bidding Document is only 10,000 INR irrespective of the fact the bidder bids for a single lot or a combination of lots or whole package. The Qualification Criteria and BoQ for each Lot is appended as **Annexure A** and **Annexure B** respectively.

Sd/-
DirectorTechnical
JTFRP

Annexure A

Qualification Criteria for Lot 1

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.1 Eligibility							
2.1.1	Nationality	Nationality in accordance with ITB Sub-Clause 4.3.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Forms ELI –1.1 and ELI-1.2 With attachments
2.1.2	Conflict of Interest	No conflicts of interest in ITB Sub-Clause 4.2.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Letter of Bid
2.1.3	Bank eligibility	Not having been declared ineligible by the Bank, as described in ITB Sub-Clause 4.4.& 4.7.	Must meet requirement	Existing JV must meet requirement	Must meet requirement	N / A	Letter of Bid
2.1.4	Government Owned Entity	Applicant required to meet conditions of ITB-A Sub-Clause 4.5. The entity should not be a dependent agency of the borrower or sub-borrower or Employer.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and 1.2 with attachments
2.1.5	United Nations resolution or Borrower's country law	Not having been excluded as a result of prohibition in the Borrower's country laws or official regulations against commercial relations with the Bidder's country, or by an act of compliance with UN Security Council resolution, both in accordance with ITB 4.7 and Section V.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and 1.2 with attachments

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
Historical Contract Non-Performance							
2.2.1	History of Non-Performing Contracts	Non-performance of a contract ¹ did not occur as a result of contractor default since 1 st January 2014.	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement by itself or as member to past or existing JV	N / A	Form CON - 2
2.2.2	Suspension due to withdrawal of the Bid within Bid validity	Not under suspension due to withdrawal of the Bid pursuant ITB 19.6.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Bid
2.2.3	Pending Litigation	Bidder's financial position and prospective long term profitability sound according to criteria established in 2.3.1 below and assuming that all pending litigation will be resolved against the Bidder	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement by itself or as member to past or existing JV	N / A	Form CON - 2
2.2.4	Litigation History	No consistent history of court/arbitral award decisions against the Bidder ² since 1 st January 2014	Must meet requirement by itself or as member to past or existing JV	Must meet requirement	Must meet requirement by itself or as member to past or existing JV	N/A	Form CON - 2

¹ Non-performance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

²The Bidder shall provide accurate information on the letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture may result in disqualifying the Bidder.

Eligibility and Qualification Criteria		Compliance Requirements			Documentation		
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.2.5	Declaration: Environmental, Social, Health, and Safety (ESHS) past performance	Declare any civil work contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), or health or safety requirements or regulations in the past five years ³ .	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Each must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Form CON-3 ESHS Performance Declaration

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	

2.3 Financial Situation and Performance

2.3.1	Financial Capabilities	<p>(a) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as INR 5 Crores for the subject contract(s) net of the Bidders other commitments</p> <p>(b) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract</p>	(a) Must meet requirement	(a) Must meet the requirement	(a) Must meet at least 25% of the requirement as a minimum	(a) Must meet at least 50% of the requirement as a minimum	Form FIN - 3.1 with attachments
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Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
		commitments (c) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial statements acceptable to the Employer, for the last <i>Five</i> years shall be submitted and must demonstrate the current soundness of the Bidder's financial position and indicate its prospective long-term profitability.	(b)) Must meet requirement	(b)) Must meet requirement	N/A	N/A	
			(c) Must meet requirement	N/A	(c) Must meet requirement	N/A	

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.3.2	Annual Construction Turnover	Achieved in at least two financial years (in the last Seven years) a minimum annual financial turnover ⁴ in civil engineering construction work of INR 24 Crore [Twenty Four Crore Rupees] calculated as total certified payments received for contracts in progress or completed,	Must meet requirement	Must meet requirement	Must meet twenty five percent (25%) of the requirement	Must meet fifty percent (50%) of the requirement	Form FIN - 3.2
Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements

⁴ At price level 2018-19. Financial turnover of previous years shall be given weightage @5% per year based on rupees value to bring them to the price level of the financial year in which bids are received.

				All Parties Combined	Each Member	One Member	
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2.4 Experience

2.4.1	General Construction Experience	Experience under construction contracts for similar works such as those pertaining to CONSTRUCTION OF ROADS in the role of contractor, JV member, subcontractor, or management contractor for at least the last Seven (7) years prior to the bid submission deadline.	Must meet requirement	N/A	Must meet requirement of having executed works of similar nature	N/A	Form EXP – 4.1
2.4.2 (a)	Specific Construction Experience	Bidder should have successfully completed as a prime contractor, JV member ⁵ , management contractor or sub-contractor, minimum One (1) civil contract substantially completed within the last Seven (7) years (FY2013-2014.to FY 2019-20), with a value ⁶ of at least INR 10 Crores involving Construction, Upgradation of Roads (Flexible Pavement).	Must meet requirement	Must meet requirement	Any one of the JV member must meet the requirement.		Form EXP 4.2(a). The contractor should have borne responsibility for execution of works to the extent he claims experience. A contractor should not claim experience for the works he has never executed.

⁵ For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share, by value, shall be considered to meet this requirement.

⁶At 2018-2019 .price level. Cost of completed works of previous years shall be given weightage @5% per year based on rupees value to bring them to the price level of the financial year in which bids are received.

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
<p>2.4.2 (b) For a bidder (either individually as a single entity or as a JV member) to qualify for a group of lots (contracts), he must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for all the contracts in question.</p>							
<p>2.4.2 (d)</p>	<p>Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value of the work. The available bid capacity will be calculated as under:</p> <p>Assessed Available bid capacity = (A*N*2-B)</p> <p>Where,</p> <p>A = Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the financial year 2019-20 at the rate of 5% per year), taking into account the completed as well as works in progress).</p>						

Qualification Criteria			Compliance Requirements			Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted		Submission Requirements
				All Parties Combined	Each Member	One Member
2.4.2 (e)		<p>N = Number of years prescribed for completion of the works for which bids are invited (period upto 6 months to be taken as half-year and more than 6 months as one year).</p> <p>B = Value, at the current price level, of existing commitments on on-going works to be completed during the period of completion of the works for which bids are invited.</p> <p>Note: <i>the statements in Section IV showing the value of existing commitments of on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer in charge, not below the rank of an Executive Engineer or equivalent.</i></p> <p>Even though the bidders may meet the above qualifying criteria, they are subject to be disqualified if they have: -</p> <ul style="list-style-type: none"> - made misleading or false representations in the forms, statements, affidavits, and attachments submitted in proof of the qualification requirement; - record of poor performance such as abandoning the works, not properly completion or financial failures etc. - consistent history of litigation or arbitration awards against the bidder or any member or the joint venture. 				

Qualification Criteria for Lot 2

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.1 Eligibility							
2.1.1	Nationality	Nationality in accordance with ITB Sub-Clause 4.3.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Forms ELI –1.1 and ELI-1.2 With attachments
2.1.2	Conflict of Interest	No conflicts of interest in ITB Sub-Clause 4.2.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Letter of Bid
2.1.3	Bank eligibility	Not having been declared ineligible by the Bank, as described in ITB Sub-Clause 4.4.& 4.7.	Must meet requirement	Existing JV must meet requirement	Must meet requirement	N / A	Letter of Bid
2.1.4	Government Owned Entity	Applicant required to meet conditions of ITB-A Sub-Clause 4.5. The entity should not be a dependent agency of the borrower or sub-borrower or Employer.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and 1.2 with attachments
2.1.5	United Nations resolution or Borrower's country law	Not having been excluded as a result of prohibition in the Borrower's country laws or official regulations against commercial relations with the Bidder's country, or by an act of compliance with UN Security Council resolution, both in accordance with ITB 4.7 and Section V.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and 1.2 with attachments

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
Historical Contract Non-Performance							
2.2.1	History of Non-Performing Contracts	Non-performance of a contract ⁷ did not occur as a result of contractor default since 1 st January 2014.	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement by itself or as member to past or existing JV	N / A	Form CON - 2
2.2.2	Suspension due to withdrawal of the Bid within Bid validity	Not under suspension due to withdrawal of the Bid pursuant ITB 19.6.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Bid
2.2.3	Pending Litigation	Bidder's financial position and prospective long term profitability sound according to criteria established in 2.3.1 below and assuming that all pending litigation will be resolved against the Bidder	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement by itself or as member to past or existing JV	N / A	Form CON - 2
2.2.4	Litigation History	No consistent history of court/arbitral award decisions against the Bidder ⁸ since 1 st January 2014	Must meet requirement by itself or as member to past or existing JV	Must meet requirement	Must meet requirement by itself or as member to past or existing JV	N/A	Form CON - 2

⁷ Non-performance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

⁸The Bidder shall provide accurate information on the letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture may result in disqualifying the Bidder.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.2.5	Declaration: Environmental, Social, Health, and Safety (ESHS) past performance	Declare any civil work contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), or health or safety requirements or regulations in the past five years ⁹ .	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Each must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Form CON-3 ESHS Performance Declaration

Qualification Criteria			Compliance Requirements		Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted	Submission Requirements

				All Parties Combined	Each Member	One Member	
2.3 Financial Situation and Performance							
2.3.1	Financial Capabilities	<p>(a) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as INR 08 Crores for the subject contract(s) net of the Bidders other commitments</p> <p>(b) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments</p> <p>(c) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial</p>	<p>(a) Must meet requirement</p> <p>(b)) Must meet</p>	<p>(a) Must meet the requirement</p> <p>(b)) Must</p>	<p>(a) Must meet at least 25% of the requirement as a minimum</p> <p>N/A</p>	<p>(a) Must meet at least 50% of the requirement as a minimum</p> <p>N/A</p>	<p>Form FIN - 3.1 with attachments</p>

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.3.2	Annual Construction Turnover	Achieved in at least two financial years (in the last Seven years) a minimum annual financial turnover ¹⁰ in civil engineering construction work of INR 30 Crores [Thirty Crore Indian Rupees] calculated as total certified payments received for contracts in progress or completed,	Must meet requirement	Must meet requirement	Must meet twenty five percent (25%) of the requirement	Must meet fifty percent (50%) of the requirement	Form FIN - 3.2
Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	

¹⁰ At price level 2018-19. Financial turnover of previous years shall be given weightage @5% per year based on rupees value to bring them to the price level of the financial year in which bids are received.

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.4 Experience							
2.4.1	General Construction Experience	Experience under construction contracts for similar works such as those pertaining to CONSTRUCTION OF ROADS in the role of contractor, JV member, subcontractor, or management contractor for at least the last seven [7] years prior to the bid submission deadline.	Must meet requirement	N/A	Must meet requirement of having executed works of similar nature	N/A	Form EXP – 4.1
2.4.2 (a)	Specific Construction Experience	Bidder should have successfully completed as a prime contractor, JV member ¹¹ , management contractor or sub-contractor, minimum One (1) civil contract substantially completed within the last	Must meet requirement	Must meet requirement	Any one of the JV member must meet the requirement.		Form EXP 4.2(a). The contractor should have borne responsibility for execution of works to the extent he claims experience. A

¹¹ For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share, by value, shall be considered to meet this requirement.

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
		Seven(7) years (FY2014-2015.to FY 2018-19), with a value ¹² of at least INR 18 Crores involving Construction, Upgradation of Roads preferably Flexible Pavement.					contractor should not claim experience for the works he has never executed.
Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
<p>2.4.2 (b) For a bidder (either individually as a single entity or as a JV member) to qualify for a group of lots (contracts), he must</p>							

¹²At 2018-2019 .price level. Cost of completed works of previous years shall be given weightage @5% per year based on rupees value to bring them to the price level of the financial year in which bids are received.

Qualification Criteria		Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted		Submission Requirements
				All Parties Combined	Each Member	One Member
demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for all the contracts in question.						
2.4.2 (d)	<p>Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value of the work. The available bid capacity will be calculated as under:</p> <p>Assessed Available bid capacity = (A*N*2-B)</p> <p>Where,</p> <p>A = Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the financial year 2019-20 at the rate of 5% per year), taking into account the completed as well as works in progress).</p> <p>N = Number of years prescribed for completion of the works for which bids are invited (period upto 6 months to be taken as half-year and more than 6 months as one year).</p>					

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
		<p>B = Value, at the current price level, of existing commitments on on-going works to be completed during the period of completion of the works for which bids are invited.</p> <p>Note: <i>the statements in Section IV showing the value of existing commitments of on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer in charge, not below the rank of an Executive Engineer or equivalent.</i></p>					
2.4.2 (e)		<p>Even though the bidders may meet the above qualifying criteria, they are subject to be disqualified if they have: -</p> <ul style="list-style-type: none"> - made misleading or false representations in the forms, statements, affidavits, and attachments submitted in proof of the qualification requirement; - record of poor performance such as abandoning the works, not properly completion or financial failures etc. - consistent history of litigation or arbitration awards against the bidder or any member or the joint venture. 					

Qualification Criteria for Lot 3

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.1 Eligibility							
2.1.1	Nationality	Nationality in accordance with ITB Sub-Clause 4.3.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and ELI-1.2 With attachments
2.1.2	Conflict of Interest	No conflicts of interest in ITB Sub-Clause 4.2.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Letter of Bid
2.1.3	Bank eligibility	Not having been declared ineligible by the Bank, as described in ITB Sub-Clause 4.4.& 4.7.	Must meet requirement	Existing JV must meet requirement	Must meet requirement	N / A	Letter of Bid
2.1.4	Government Owned Entity	Applicant required to meet conditions of ITB-A Sub-Clause 4.5. The entity should not be a dependent agency of the borrower or sub-borrower or Employer.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and 1.2 with attachments
2.1.5	United Nations resolution or Borrower's country law	Not having been excluded as a result of prohibition in the Borrower's country laws or official regulations against commercial relations with the Bidder's country, or by an act of compliance with UN Security Council resolution, both in accordance with ITB 4.7 and Section V.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and 1.2 with attachments

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
Historical Contract Non-Performance							
2.2.1	History of Non-Performing Contracts	Non-performance of a contract ¹³ did not occur as a result of contractor default since 1 st January 2014.	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement by itself or as member to past or existing JV	N / A	Form CON - 2
2.2.2	Suspension due to withdrawal of the Bid within Bid validity	Not under suspension due to withdrawal of the Bid pursuant ITB 19.6.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Bid
2.2.3	Pending Litigation	Bidder's financial position and prospective long term profitability sound according to criteria established in 2.3.1 below and assuming that all pending litigation will be resolved against the Bidder	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement by itself or as member to past or existing JV	N / A	Form CON - 2
2.2.4	Litigation History	No consistent history of court/arbitral award decisions against the Bidder ¹⁴ since 1 st January 2014	Must meet requirement by itself or as member to past or existing JV	Must meet requirement	Must meet requirement by itself or as member to past or existing JV	N/A	Form CON - 2

¹³ Non-performance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

¹⁴The Bidder shall provide accurate information on the letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture may result in disqualifying the Bidder.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.2.5	Declaration: Environmental, Social, Health, and Safety (ESHS) past performance	Declare any civil work contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), or health or safety requirements or regulations in the past five years ¹⁵ .	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Each must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Form CON-3 ESHS Performance Declaration

Qualification Criteria			Compliance Requirements		Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted	Submission Requirements

				All Parties Combined	Each Member	One Member	
2.3 Financial Situation and Performance							
2.3.1	Financial Capabilities	<p>(a) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as INR 03 Crores for the subject contract(s) net of the Bidders other commitments</p> <p>(b) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments</p> <p>(c) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial</p>	<p>(a) Must meet requirement</p> <p>(b)) Must meet</p>	<p>(a) Must meet the requirement</p> <p>(b)) Must</p>	<p>(a) Must meet at least 25% of the requirement as a minimum</p> <p>N/A</p>	<p>(a) Must meet at least 50% of the requirement as a minimum</p> <p>N/A</p>	<p>Form FIN - 3.1 with attachments</p>

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.3.2	Annual Construction Turnover	Achieved in at least two financial years (in the last Seven years) a minimum annual financial turnover ¹⁶ in civil engineering construction work of INR 15 Crores [Fifteen Crore Indian Rupees] calculated as total certified payments received for contracts in progress or completed,	Must meet requirement	Must meet requirement	Must meet twenty five percent (25%) of the requirement	Must meet fifty percent (50%) of the requirement	Form FIN - 3.2
Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	

¹⁶ At price level 2018-19. Financial turnover of previous years shall be given weightage @5% per year based on rupees value to bring them to the price level of the financial year in which bids are received.

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.4 Experience							
2.4.1	General Construction Experience	Experience under construction contracts for similar works such as those pertaining to CONSTRUCTION OF ROADS in the role of contractor, JV member, subcontractor, or management contractor for at least the last seven [7] years prior to the bid submission deadline.	Must meet requirement	N/A	Must meet requirement of having executed works of similar nature	N/A	Form EXP – 4.1
2.4.2 (a)	Specific Construction Experience	Bidder should have successfully completed as a prime contractor, JV member ¹⁷ , management contractor or sub-contractor, minimum One (1) civil contract substantially completed within the last	Must meet requirement	Must meet requirement	Any one of the JV member must meet the requirement.		Form EXP 4.2(a). The contractor should have borne responsibility for execution of works to the extent he claims experience. A

¹⁷ For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share, by value, shall be considered to meet this requirement.

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
		Seven(7) years (FY2014-2015.to FY 2018-19), with a value ¹⁸ of at least INR 6 Crore involving Construction, Upgradation of Roads (Flexible Pavemen)					contractor should not claim experience for the works he has never executed.

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
<p>2.4.2 (b) For a bidder (either individually as a single entity or as a JV member) to qualify for a group of lots (contracts), he must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for all the contracts in question.</p>							

¹⁸At 2018-2019 .price level. Cost of completed works of previous years shall be given weightage @5% per year based on rupees value to bring them to the price level of the financial year in which bids are received.

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.4.2 (d)	<p>Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value of the work. The available bid capacity will be calculated as under:</p> <p>Assessed Available bid capacity = $(A*N*2-B)$</p> <p>Where,</p> <p>A = Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the financial year 2019-20 at the rate of 5% per year), taking into account the completed as well as works in progress).</p> <p>N = Number of years prescribed for completion of the works for which bids are invited (period upto 6 months to be taken as half-year and more than 6 months as one year).</p> <p>B = Value, at the current price level, of existing commitments on on-going works to be completed during the period of completion of the</p>						

Qualification Criteria for Lot 4

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.1 Eligibility							
2.1.1	Nationality	Nationality in accordance with ITB Sub-Clause 4.3.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and ELI-1.2 With attachments
2.1.2	Conflict of Interest	No conflicts of interest in ITB Sub-Clause 4.2.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Letter of Bid
2.1.3	Bank eligibility	Not having been declared ineligible by the Bank, as described in ITB Sub-Clause 4.4.& 4.7.	Must meet requirement	Existing JV must meet requirement	Must meet requirement	N / A	Letter of Bid
2.1.4	Government Owned Entity	Applicant required to meet conditions of ITB-A Sub-Clause 4.5. The entity should not be a dependent agency of the borrower or sub-borrower or Employer.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and 1.2 with attachments
2.1.5	United Nations resolution or Borrower's country law	Not having been excluded as a result of prohibition in the Borrower's country laws or official regulations against commercial relations with the Bidder's country, or by an act of compliance with UN Security Council resolution, both in accordance with ITB 4.7 and Section V.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Forms ELI -1.1 and 1.2 with attachments

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
Historical Contract Non-Performance							
2.2.1	History of Non-Performing Contracts	Non-performance of a contract ¹⁹ did not occur as a result of contractor default since 1 st January 2014.	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement by itself or as member to past or existing JV	N / A	Form CON - 2
2.2.2	Suspension due to withdrawal of the Bid within Bid validity	Not under suspension due to withdrawal of the Bid pursuant ITB 19.6.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Bid
2.2.3	Pending Litigation	Bidder's financial position and prospective long term profitability sound according to criteria established in 2.3.1 below and assuming that all pending litigation will be resolved against the Bidder	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement by itself or as member to past or existing JV	N / A	Form CON - 2
2.2.4	Litigation History	No consistent history of court/arbitral award decisions against the Bidder ²⁰ since 1 st January 2014	Must meet requirement by itself or as member to past or existing JV	Must meet requirement	Must meet requirement by itself or as member to past or existing JV	N/A	Form CON - 2

¹⁹ Non-performance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

²⁰The Bidder shall provide accurate information on the letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture may result in disqualifying the Bidder.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.2.5	Declaration: Environmental, Social, Health, and Safety (ESHS) past performance	Declare any civil work contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), or health or safety requirements or regulations in the past five years ²¹ .	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Each must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Form CON-3 ESHS Performance Declaration

Qualification Criteria			Compliance Requirements		Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted	Submission Requirements

				All Parties Combined	Each Member	One Member	
2.3 Financial Situation and Performance							
2.3.1	Financial Capabilities	<p>(a) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as INR 4 Crore for the subject contract(s) net of the Bidders other commitments</p> <p>(b) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments</p> <p>(c) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial statements acceptable to</p>	<p>(a) Must meet requirement</p> <p>(b)) Must meet</p>	<p>(a) Must meet the requirement</p> <p>(b)) Must</p>	<p>(a) Must meet at least 25% of the requirement as a minimum</p> <p>N/A</p>	<p>(a) Must meet at least 50% of the requirement as a minimum</p> <p>N/A</p>	<p>Form FIN - 3.1 with attachments</p>

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.3.2	Annual Construction Turnover	Achieved in at least two financial years (in the last Seven years) a minimum annual financial turnover ²² in civil engineering construction work of INR 21 Crore [Twenty One Crore Indian Rupees] calculated as total certified payments received for contracts in progress or completed,	Must meet requirement	Must meet requirement	Must meet twenty five percent (25%) of the requirement	Must meet fifty percent (50%) of the requirement	Form FIN - 3.2
Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	

²² At price level 2018-19 . Financial turnover of previous years shall be given weightage @5% per year based on rupees value to bring them to the price level of the financial year in which bids are received.

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.4 Experience							
2.4.1	General Construction Experience	Experience under construction contracts for similar works such as those pertaining to CONSTRUCTION OF ROADS in the role of contractor, JV member, subcontractor, or management contractor for at least the last seven [7] years prior to the bid submission deadline.	Must meet requirement	N/A	Must meet requirement of having executed works of similar nature	N/A	Form EXP – 4.1
2.4.2 (a)	Specific Construction Experience	Bidder should have successfully completed as a prime contractor, JV member ²³ , management contractor or sub-contractor, minimum One (1) civil contract substantially completed within the last	Must meet requirement	Must meet requirement	Any one of the JV member must meet the requirement.		Form EXP 4.2(a). The contractor should have borne responsibility for execution of works to the extent he claims experience. A

²³ For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share, by value, shall be considered to meet this requirement.

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
		Seven(7) years (FY2014-2015.to FY 2018-19), with a value ²⁴ of at least INR 9 Crore involving Construction, Upgradation of Roads (Flexible Pavement).					contractor should not claim experience for the works he has never executed.

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
<p>2.4.2 (b) For a bidder (either individually as a single entity or as a JV member) to qualify for a group of lots (contracts), he must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for all the contracts in question.</p>							

²⁴At 2018-2019 .price level. Cost of completed works of previous years shall be given weightage @5% per year based on rupees value to bring them to the price level of the financial year in which bids are received.

Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture where permitted			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.4.2 (d)	<p>Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value of the work. The available bid capacity will be calculated as under:</p> <p>Assessed Available bid capacity = (A*N*2-B)</p> <p>Where,</p> <p>A = Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the financial year 2019-20 at the rate of 5% per year), taking into account the completed as well as works in progress).</p> <p>N = Number of years prescribed for completion of the works for which bids are invited (period upto 6 months to be taken as half-year and more than 6 months as one year).</p> <p>B = Value, at the current price level, of existing commitments on on-going works to be completed during the period of completion of the</p>						

Annexure B

BOQ of Lot 1: Rigid Pavement of IG Road Rambagh to Civil Secretariat in Srinagar						
Bill no:-1 :Dismantling						
Sl. No	Description	Unit	Qty	Rate in Word	Rate in figure	Amount
1.1	Dismantling of flexible bituminous pavements and disposal of dismantled materials up to a desired lead of metres, stacking serviceable and unserviceable materials separately as per MoRTH clause no 202	Sqm	4346			
1.2	Dismantling of flexible non-bituminous pavements and disposal of dismantled materials up to a desired lead of metres, stacking serviceable and unserviceable materials separately as per MoRTH clause no 202	Cum	14827.12			
Bill no:-2 : Pavement Work						
2.1	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per MoRTH clause 401	Cum	4158.822			
2.2	Construction of un-reinforced, dowel jointed, plain cement concrete pavement 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 or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing	Cum	7763.134			
2.3	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 25 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,	Cum	4158.822			

	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.					
Bill no:-03:Drain						
3.1	Earthwork in excavation of foundation for structures including all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	cum	8543.36			
3.2	Providing & Laying Plain Cement Concrete M-15 levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	cum	610.24			
3.3	Providing & Laying Reinforced Cement Concrete M-20 including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	cum	4119.12			
3.4	Supplying, fitting & placing in position HYSD / TMT bar reinforcement complete as per drg. and MORT&H specifications sections 1600.	MT	114.42			
Bill no:-04:Traffic Signs, Marking and Appurtenances						
4.1	Retro- reflectorised Traffic signs (Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)					
(i)	90 cm equilateral triangle (Give Way)	each	8			
(ii)	60 cm equilateral triangle	each	20			
(iii)	90 cm circular(Speed Limit at sharp bend)	each	4			
(iv)	90cm x 30cm rectangular (Object hazard)	each	6			

(v)	60 cm x 45 cm rectangular (Place identification)	each	2			
4.2	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium 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 60 cm, 60 cm below ground level as per approved drawing)	sqm	2			
4.3	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.)	sqm	763			
4.4	Kilometre Stone (Reinforced cement concrete M15 grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)					
(i)	Ordinary Kilometer stone (Precast)	each	2			
4.5	Boundary pillar (Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25-1967, fixed in position including finishing and lettering but excluding painting)	each	20			
4.6	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 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 hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)	each	848			
4.7	I-Kerb in median	Cum	657			

Bill No 5: Environment and Social Management Plan.

5.1	SITE SAFETY MEASURES: Barricading as per IRC SP-55 Rate shall be inclusive of cost of providing all materials and fixing arrangements, including excavation, transportation to site, fixing, backfilling, removal of the complete barricading after construction work is over and rehabilitation of	Rmtr	500			
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	the site etc., with all incidental charges, leads, lifts and all taxes and duties as applicable and as specified by Engineer-in-charge. Material of barricading shall be the property of contractor after completion the work. Barricading shall be maintained throughout the construction period. It should be installed in a manner so that one cannot crawl underneath it, should be sturdy enough to bear normal wear and tear at the construction site, should not topple off and hurt someone and should be strong enough to withstand the elements, including high wind conditions.					
5.2	Provision, installation and maintenance of cautionary/warning signage, including diversion boards as per IRC specifications (SP:55, 2014) on the main road and along the access, including cost of boards and other materials required for fixing, with all incidental charges leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge	No	2			
5.3	Cost towards first aid and emergency response arrangements in the camp and worksite (including fire and electrical safety provisions)	Job	1			
5.4	Cost towards periodic health check-ups once in three months for all construction workers	Job	1			
5.5	Wet type portable toilet (MS fabricated) 2 seats (1 for men and 1 for women with separate entrances), fitted with 2000 liters capacity overhead tank and 500 liters capacity bottom tank, fitted with Indian type of pot with other facilities such as tap, lighting and ventilation; and sludge tank of capacity 1000L, and stationed at a suitable place in or around 50 meters from work front. Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.	No	2			
5.6	Dry type portable toilet (MS fabricated) (bio digester) of approved design with 2 seats (one for men and one for women). Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads,	No	2			

	lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.					
5.7	Providing of mobile drinking water counter/kiosk, fabricated from stainless steel with 300 liters capacity, with two taps and with bottom tank (300 litre holding capacity) to collect waste water and stationed at a suitable place within operational area, with one common attendant for both mobile toilet and drinking water kiosk. Cost includes charges for emptying bottom tank through suction machine, shifting cost of the kiosk from one operational area to another area, attendant cost for looking after cleaning and operation, all materials and all labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge	No	2			
5.8	OTHER ENVIRONMENT, HEALTH AND SAFETY MEASURES: Information dissemination about type and schedule of civil works, utility shifting/damage/emergency repairs, complaint handling and all such issues that affect public/near-by residents Road users close to the work zone. Dissemination modes to include display of banners/notices, distribution of handbills, organization of meetings and other appropriate means at least once in a month for the entire project duration.	Months	9			
5.9	Provision of Project Information Board in sheet steel and all supports, including fixing and maintenance during the entire project. Minimum board size should be 3 meters x 2 meters, with necessary information in English and local language written in black paint with white back ground. The board details and the required information will be furnished by the Engineer. The complete design, including logo and information to be displayed shall be approved by the Engineer	No	2			
5.10	Cost of environmental monitoring (air, water and noise) during entire construction period in line with parameters and frequency specified in the EMP. Ambient Air Quality-15000/Sample , Water Sample - 8000/Sample Ambient Noise Level- 3000/sample (Sampling can be done only during day hours because of security reasons ((12 Hourly Ambient Air Quality Monitoring for PM2.5 PM10,SO2, Nox and CO) -Noise Levels (dB) for Day and Night, Water Monitoring -Parameters specified in EMP).(Once in Quarter (AAQ) , Once in an	Job	1			

	Month (AAN) , As Specified in EMP (Water Monitoring)					
5.11	Construction of silt traps at the discharge points of channels into to fresh water bodies across the project road as per the Standard Details provided.	Rmt	500			
	Total Bid Cost in Figures (INR) A					
	Total Bid Cost in Words (INR)					
	Provisional Sum B					30,00,000
	Total Cost including provisional sum (A+B)					

**BOQ of Lot 2:
Rigid Pavement of Eastern Foreshore Road**

BOQ of Lot 2: Rigid Pavement of Eastern Foreshore Road						
Bill no:-1 :Dismantling						
<i>Sl. No</i>	<i>Description</i>	<i>Unit</i>	<i>Qty</i>	<i>Rate in Word</i>	<i>Rate in figure</i>	<i>Amount</i>
1.1	Dismantling of flexible bituminous pavements and disposal of dismantled materials up to a desired lead of metres, stacking serviceable and unserviceable materials separately as per MoRTH clause no 202	Sqm	4463			
1.2	Dismantling of flexible non-bituminous pavements and disposal of dismantled materials up to a desired lead of metres, stacking serviceable and unserviceable materials separately as per MoRTH clause no 202	Cum	14577.50			
Bill no:-2 : Earth work						
2.1	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead as per MoRTH clause no 301					
	Ordinary Soil	Cum	20825.00			
2.2	Construction of earthen shoulders with approved material obtained from borrow pits with all lifts & leads , transporting to site, spreading, grading to required slope and compacted to meet requirement of as per MoRTH clause 305					
	Rolling with vibratory roller	Cum	2700.00			
Bill no:-3 : Pavement Work						
3.1	Construction of subgrade with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of as per MoRTH clause 305	Cum	24097.500			
3.2	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per MoRTH clause 401	Cum	7229.25			

3.3	Construction of un-reinforced, dowel jointed, plain cement concrete pavement 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 or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing	Cum	12495.00			
3.4	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 25 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.	Cum	6693.75			
3.5	Providing and laying bitumastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702 prepared by using mastic cooker and laid to required level and slope including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 1 0 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (considering bitumen using 10.2% as per MORTH specification) 40 mm THK	Sqm	9375.00			
Bill no: -04: Drain						
4.1	Earthwork in excavation of foundation for structures including all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	cum	7804.80			
4.2	Providing & Laying Plain Cement Concrete M-15 levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	cum	867.20			

4.3	Providing & Laying Reinforced Cement Concrete M-20 including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	cum	4607.00			
4.4	Supplying, fitting & placing in position HYSD / TMT bar reinforcement complete as per drg. and MORT&H specifications sections 1600.	MT	162.60			
Bill no:-05:Traffic Signs, Marking and Appurtenances						
5.1	Retro- reflectorised Traffic signs (Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)					
(i)	90 cm equilateral triangle (Give Way)	each	3			
(ii)	60 cm equilateral triangle	each	17			
(iii)	90 cm circular(Speed Limit at sharp bend)	each	5			
(iv)	90cm x 30cm rectangular (Object hazard)	each	20			
(v)	60 cm x 45 cm rectangular (Place identification)	each	5			
(vi)	60 cm x 50 cm rectangular Chevron (at sharp bend)	each	2			
5.2	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium 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 60 cm, 60 cm below ground level as per approved drawing)	sqm	2.16			
5.3	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,	sqm	1440			

	uniform and free from streaks and holes.)					
5.4	Kilometre Stone (Reinforced cement concrete M15 grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)					
(i)	Ordinary Kilometer stone (Precast)	each	3			
5.5	Boundary pillar (Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25-1967, fixed in position including finishing and lettering but excluding painting)	each	37			
5.6	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 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 hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)	each	2400			
5.7	I-Kerb in median	Cum	1165.32			

Bill No 6: Environment and Social Management Plan.

6.1	SITE SAFETY MEASURES: Barricading as per IRC SP-55 Rate shall be inclusive of cost of providing all materials and fixing arrangements, including excavation, transportation to site, fixing, backfilling, removal of the complete barricading after construction work is over and rehabilitation of the site etc., with all incidental charges, leads, lifts and all taxes and duties as applicable and as specified by Engineer-in-charge. Material of barricading shall be the property of contractor after completion the work. Barricading shall be maintained throughout the construction period. It should be installed in a manner so that one cannot crawl underneath it, should be sturdy enough to bear normal wear and tear at the construction site, should not topple off and hurt someone and should be strong enough to withstand the elements, including high wind conditions.	Rmtr	500			
6.2	Provision, installation and maintenance of cautionary/warning signage, including diversion boards as per IRC specifications (SP:55, 2014) on the main road and along the access, including cost of boards and	No	2			

	other materials required for fixing, with all incidental charges leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge					
6.3	Cost towards first aid and emergency response arrangements in the camp and worksite (including fire and electrical safety provisions)	Job	1			
6.4	Cost towards periodic health check-ups once in three months for all construction workers	Job	1			
6.5	Wet type portable toilet (MS fabricated) 2 seats (1 for men and 1 for women with separate entrances), fitted with 2000 liters capacity overhead tank and 500 liters capacity bottom tank, fitted with Indian type of pot with other facilities such as tap, lighting and ventilation; and sludge tank of capacity 1000L, and stationed at a suitable place in or around 50 meters from work front. Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.	No	2			
6.6	Dry type portable toilet (MS fabricated) (bio digester) of approved design with 2 seats (one for men and one for women). Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.	No	2			
6.7	Providing of mobile drinking water counter/kiosk, fabricated from stainless steel with 300 liters capacity, with two taps and with bottom tank (300 litre holding capacity) to collect waste water and stationed at a suitable place within operational area, with one common attendant for both mobile toilet and drinking water kiosk. Cost includes charges for emptying bottom tank through suction machine, shifting cost of the kiosk from one operational area to another area, attendant cost for looking after cleaning and operation, all materials and all labour	No	2			

	charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge					
6.8	OTHER ENVIRONMENT, HEALTH AND SAFETY MEASURES: Information dissemination about type and schedule of civil works, utility shifting/damage/emergency repairs, complaint handling and all such issues that affect public/near-by residents Road users close to the work zone. Dissemination modes to include display of banners/notices, distribution of handbills, organization of meetings and other appropriate means at least once in a month for the entire project duration.	Months	9			
6.9	Provision of Project Information Board in sheet steel and all supports, including fixing and maintenance during the entire project. Minimum board size should be 3 meters x 2 meters, with necessary information in English and local language written in black paint with white back ground. The board details and the required information will be furnished by the Engineer. The complete design, including logo and information to be displayed shall be approved by the Engineer	No	2			
6.10	Cost of environmental monitoring (air, water and noise) during entire construction period in line with parameters and frequency specified in the EMP. Ambient Air Quality-15000/Sample , Water Sample - 8000/Sample Ambient Noise Level- 3000/sample (Sampling can be done only during day hours because of security reasons ((12 Hourly Ambient Air Quality Monitoring for PM2.5 PM10,SO2, Nox and CO) -Noise Levels (dB) for Day and Night, Water Monitoring -Parameters specified in EMP).(Once in Quarter (AAQ) , Once in an Month (AAN) , As Specified in EMP (Water Monitoring)	Job	1			
6.11	Construction of silt traps at the discharge points of channels into to fresh water bodies across the project road as per the Standard Details provided.	Rmt	500			
	Total Bid Cost in Figures (INR)					
	A					

	Total Bid Cost in Words (INR)					
	Provisional Sum B					30,00,000
	Total Cost including provisional sum (A+B)					

**BOQ of Lot 3: Rigid Pavement of IG Road Peerbagh Bridge to Humhama
Chowk**

<i>Sl. No</i>	<i>Description</i>	<i>Unit</i>	<i>Qty</i>	<i>Rate in Word</i>	<i>Rate in figure</i>	<i>Amount</i>
Bill no:-1 :Dismantling						
1.1	Dismantling of flexible bituminous pavements and disposal of dismantled materials up to a desired lead of metres, stacking serviceable and unserviceable materials separately as per MoRTH clause no 202	Sqm	1677			
1.2	Dismantling of flexible non-bituminous pavements and disposal of dismantled materials up to a desired lead of metres, stacking serviceable and unserviceable materials separately as per MoRTH clause no 202	Cum	225.00			
Bill no:-2 : Earth work						
2.1	Construction of earthen shoulders with approved material obtained from borrow pits with all lifts & leads , transporting to site, spreading, grading to required slope and compacted to meet requirement of as per MoRTH clause 305					
	Rolling with vibratory roller	Cum	1341.90			
Bill no:-3 : Pavement Work						
3.1	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per MoRTH clause 401	Cum	3115.13			
3.2	Construction of un-reinforced, dowel jointed, plain cement concrete pavement 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 or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing	Cum	4174.80			

3.3	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 25 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.	Cum	2364.30			
3.4	Providing and laying bitumastic wearing course (as perspecifications) with industrial bitumen of grade 85/25 conforming to IS : 702 prepared by using mastic cooker and laid to required level and slope including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 1 0 sqm and at approximate spacing of 10 em centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (considering bitumen using 10.2% as per MORTH specification) 40 mm THK	Sqm	6688.20			
Bill no:-4:Culvert						
4.1	Earthwork in excavation of foundation for structures including pipe culverts in all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	Cum	1918.65			
4.2	Back filling behind abutments, wing walls and return walls with seletcted granular material of approved quality with all leads and lifts complete as per drg. and MORT&H specifications clauses 305 & 2907.	Cum	88.49			
4.3	Filter media behind abutments, wing walls, & return walls, including all material, labour, equipment carriage etc. all complete as per drawing and Technical Specification Clauses 305, 309 & 2504.	Cum	80.73			
4.4	Providing & Laying Plain Cement Concrete levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.					
	M-15 grade	Cum	55.74			
4.5	Providing & Laying Reinforced Cement Concrete in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700					

	and 2100.					
	M-25 grade	Cum	208.20			
4.6	Cement Concrete / Reinforced Cement Concrete in sub-structure including form work but excluding reinforcement complete as per drg. and MORT&H specifications sections 1500, 1700 and 2200.					
	M-25 grade	Cum	214.24			
4.7	Reinforced Cement Concrete in super-structure including centring and shuttering but excluding reinforcement complete as per drg. and MORT&H specifications sections 1500, 1700 and 2300.					
	M-25 grade	Cum	49.10			
4.8	Supplying, fitting & placing in position HYSD / TMT bar reinforcement complete as per drg. and MORT&H specifications sections 1600.					
	Foundation	MT	5.18			
	Sub-structure	MT	9.19			
	Superstructure	MT	4.91			
4.9	Providing & fixing Bitumen impregnated fibre board expansion joints complete as per drg. and Technical specifications	M	70.00			
4.10	Providing weep holes in brick masonry / plain / reinforced concrete abutment, wing walls / return wall with 100mm dia AC pipe, extending through the full width of structure with slope of IV:20H towards draining face complete as per drg. and MORT&H specifications clause 2706.	Nr.	133.00			
4.10 (a)	Providing, laying & jointing RCC NP4 pipe including testing complete as per drg. & MORT&H specifications section 2900					
	1200mm dia	M	39.00			
4.11	Rigid apron 150mm thick flat stone embedded in 300mm thick M-15 grade concrete as per drawing and technical specification Clause 2505.	Cum	682.06			
4.12	Providing & laying stone boulder apron complete as per drg. & MORT&H specifications section 2500.	Cum	635.85			
4.13	Providing & laying filter material underneath stone boulder pitching on slopes complete as per drg. and MORT&H specifications section 2500.	Cum	50.31			
4.14	Providing & laying stone boulder pitching on slopes complete as per drg. and MORT&H specifications section 2500.	Cum	100.61			

4.15	Providing & laying stone pitching on slopes for pipe culvert complete as per drg	Cum	66.34			
4.16	Providing & laying selected granular material for pipe bedding as per drg. and MORT&H specifications section 2900.	Cum	47.99			
4.17	plain cement concrete M-20 grade for head wall of culvert including centering and shuttering complete as per drawing and technical specification section 1500, 1700, 2100 and 2200.	Cum	358.71			
4.18	Providing and laying 12 mm thick mastic asphalt wearing course on top of deck slab excluding prime coat with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen pre-coated fine grained hard stone chipping of 9.5 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 100 deg. C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause 515.)	Sq.m.	329.00			
4.19	Drainage Spouts complete as per drawing and Technical specification	Nos	6.00			
4.20	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification	Cum	25.56			
4.21	Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification	Cum	74.55			
4.22	Dismantling					
(i)	Plain Cement Concrete	cum	3.82			
(ii)	Pipe	m	30.10			
(iii)	Brick / Stone Structures	cum	33.40			
Bill no: -05:Drain						
5.1	Earthwork in excavation of foundation for structures including all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	cum	3934.08			

5.2	Providing & Laying Plain Cement Concrete M-15 levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	cum	437.12			
5.3	Providing & Laying Reinforced Cement Concrete M-20 including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	cum	1994.36			
5.4	Supplying, fitting & placing in position HYSD / TMT bar reinforcement complete as per drg. and MORT&H specifications sections 1600.	MT	81.96			
Bill no:-06:Traffic Signs, Marking and Appurtenances						
6.1	Retro- reflectorised Traffic signs (Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)					
(i)	90 cm equilateral triangle (Give Way)	each	4			
(ii)	60 cm equilateral triangle	each	1			
(iii)	90 cm circular(Speed Limit at sharp bend)	each	4			
(iv)	90cm x 30cm rectangular (Object hazard)	each	6			
(v)	60 cm x 45 cm rectangular (Place identification)	each	2			
(vi)	60 cm x 50 cm rectangular Chevron (at sharp bend)	each	8			
6.2	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium 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 60 cm, 60 cm below ground level as per approved drawing)	sqm	0.54			
6.3	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	sqm	636.16			

	exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.)					
6.4	Kilometre Stone (Reinforced cement concrete M15 grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)					
(i)	Ordinary Kilometer stone (Precast)	each	1			
6.5	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming to IRC-79 and the drawings.)	each	32			
6.6	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 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 hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)	each	711			

Bill No 7: Environment and Social Management Plan.

7.1	SITE SAFETY MEASURES: Barricading as per IRC SP-55 Rate shall be inclusive of cost of providing all materials and fixing arrangements, including excavation, transportation to site, fixing, backfilling, removal of the complete barricading after construction work is over and rehabilitation of the site etc., with all incidental charges, leads, lifts and all taxes and duties as applicable and as specified by Engineer-in-charge. Material of barricading shall be the property of contractor after completion the work. Barricading shall be maintained throughout the construction period. It should be installed in a manner so that one cannot crawl underneath it, should be sturdy enough to bear normal wear and tear at the construction site, should not topple off and hurt someone and should be strong enough to withstand the elements, including high wind conditions.	Rmtr	500			
7.2	Provision, installation and maintenance of cautionary/warning signage, including diversion boards as per IRC specifications (SP:55, 2014) on the main road and along the access, including cost of boards and	No	2			

	other materials required for fixing, with all incidental charges leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge					
7.3	Cost towards first aid and emergency response arrangements in the camp and worksite (including fire and electrical safety provisions)	Job	1			
7.4	Cost towards periodic health check-ups once in three months for all construction workers	Job	1			
7.5	Wet type portable toilet (MS fabricated) 2 seats (1 for men and 1 for women with separate entrances), fitted with 2000 liters capacity overhead tank and 500 liters capacity bottom tank, fitted with Indian type of pot with other facilities such as tap, lighting and ventilation; and sludge tank of capacity 1000L, and stationed at a suitable place in or around 50 meters from work front. Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.	No	2			
7.6	Dry type portable toilet (MS fabricated) (bio digester) of approved design with 2 seats (one for men and one for women). Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.	No	2			
7.7	Providing of mobile drinking water counter/kiosk, fabricated from stainless steel with 300 liters capacity, with two taps and with bottom tank (300 litre holding capacity) to collect waste water and stationed at a suitable place within operational area, with one common attendant for both mobile toilet and drinking water kiosk. Cost includes charges for emptying bottom tank through suction machine, shifting cost of the kiosk from one operational area to another area, attendant cost for looking after cleaning and operation, all materials and all labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge	No	2			

7.8	OTHER ENVIRONMENT, HEALTH AND SAFETY MEASURES: Information dissemination about type and schedule of civil works, utility shifting/damage/emergency repairs, complaint handling and all such issues that affect public/near-by residents Road users close to the work zone. Dissemination modes to include display of banners/notices, distribution of handbills, organization of meetings and other appropriate means at least once in a month for the entire project duration.	Months	9			
7.9	Provision of Project Information Board in sheet steel and all supports, including fixing and maintenance during the entire project. Minimum board size should be 3 meters x 2 meters, with necessary information in English and local language written in black paint with white back ground. The board details and the required information will be furnished by the Engineer. The complete design, including logo and information to be displayed shall be approved by the Engineer	No	2			
7.10	Cost of environmental monitoring (air, water and noise) during entire construction period in line with parameters and frequency specified in the EMP. Ambient Air Quality-15000/Sample , Water Sample - 8000/Sample Ambient Noise Level- 3000/sample (Sampling can be done only during day hours because of security reasons ((12 Hourly Ambient Air Quality Monitoring for PM2.5 PM10,SO2, Nox and CO) -Noise Levels (dB) for Day and Night, Water Monitoring -Parameters specified in EMP).(Once in Quarter (AAQ) , Once in an Month (AAN) , As Specified in EMP (Water Monitoring)	Job	1			
7.11	Construction of silt traps at the discharge points of channels into to fresh water bodies across the project road as per the Standard Details provided.	Rmt	500			
	Total Bid Cost in Figures (INR)					
	A					
	Total Bid Cost in Words (INR)					

	Provisional Sum B	30,00,000				
	Total Cost including provisional sum (A+B)					

BOQ of Lot 4: Parimpora - Soibugh Road

BOQ of Lot 4: Parimpora - Soibugh Road						
Bill no:-1 :Dismantling						
<i>Sl. No</i>	<i>Description</i>	<i>Unit</i>	<i>Qty</i>	<i>Rate in Word</i>	<i>Rate in figure</i>	<i>Amount</i>
1.1	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30cm measured at height of 1m above ground level and removal of rubbish upto a distance of 50m outside the periphery of the area cleared as per MoRTH clause no 201	Sqm	37518.36			
1.2	Dismantling of flexible bituminous pavements and disposal of dismantled materials up to a desired lead of metres, stacking serviceable and unserviceable materials separately as per MoRTH clause no 202	Sqm	3037.09			
Bill no:-2 : Earth work						
2.1	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead as per MoRTH clause no 301					
	Ordinary Soil	Cum	7114.53			
2.2	Removal of unserviceable soil including excavation, loading and disposal upto within all lifts and lead but excluding replacement by suitable soil which shall be paid separately	Cum	711.45			
2.3	Construction of embankment with approved material obtained from borrow pits with all lifts and leads , transporting to site, spreading, grading to required slope and compacting to meet requirement of as per MoRTH clause 305.	Cum	13801.09			
2.4	Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table as per MoRTH clause 305.	Cum	6403.07			
2.5	Construction of earthen shoulders with approved material obtained from borrow pits with all lifts & leads , transporting to site, spreading, grading to required slope and compacted to meet requirement of as per MoRTH clause 305					
	Rolling with vibratory roller	Cum	13648.25			
Bill no:-3 : Pavement Work						

3.1	Construction of subgrade with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of as per MoRTH clause 305	Cum	19419.221			
3.2	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per MoRTH clause 401	Cum	6323.03			
3.3	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 of MoRTH.	Cum	2184.96			
3.4	Providing and applying Prime coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying Prime at the rate of 0.7 kg/sqm using mechanical means as per MoRTH clause 502	Sqm	41565.34			
3.5	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom as per MoRTH clause 503	Sqm	85170.67			
3.6	Providing and laying 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 (VG-10) @ 5.4 to 5.6 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects.	Cum	1261.12			
3.7	Providing and laying graded dense bituminous macadam with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder (VG-10) @ 4.5 to 5.0 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	Cum	2522.24			

	desired compaction as per MORTH specification clause No. 505 complete in all respects.					
Bill no:-4: Culvert						
4.1	Earthwork in excavation of foundation for structures including pipe culverts in all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	Cum	1918.65			
4.2	Back filling behind abutments, wing walls and return walls with selected granular material of approved quality with all leads and lifts complete as per drg. and MORT&H specifications clauses 305 & 2907.	Cum	88.49			
4.3	Filter media behind abutments, wing walls, & return walls, including all material, labour, equipment carriage etc. all complete as per drawing and Technical Specification Clauses 305, 309 & 2504.	Cum	80.73			
4.4	Providing & Laying Plain Cement Concrete levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.					
	M-15 grade	Cum	55.74			
4.5	Providing & Laying Reinforced Cement Concrete in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.					
	M-25 grade	Cum	208.20			
4.6	Cement Concrete / Reinforced Cement Concrete in sub-structure including form work but excluding reinforcement complete as per drg. and MORT&H specifications sections 1500, 1700 and 2200.					
	M-25 grade	Cum	214.24			
4.7	Reinforced Cement Concrete in super-structure including centring and shuttering but excluding reinforcement complete as per drg. and MORT&H specifications sections 1500, 1700 and 2300.					
	M-25 grade	Cum	49.10			
4.8	Supplying, fitting & placing in position HYSD / TMT bar reinforcement complete as per					

	drg. and MORT&H specifications sections 1600.					
(i)	Foundation	MT	5.18			
(ii)	Sub-structure	MT	9.19			
(iii)	Superstructure	MT	4.91			
4.9	Providing & fixing Bitumen impregnated fibre board expansion joints complete as per drg. and Technical specifications	M	70.00			
4.10	Providing weep holes in brick masonry / plain / reinforced concrete abutment, wing walls / return wall with 100mm dia AC pipe, extending through the full width of structure with slope of IV:20H towards draining face complete as per drg. and MORT&H specifications clause 2706.	Nr.	133.00			
4.11	Providing, laying & jointing RCC NP4 pipe including testing complete as per drg. & MORT&H specifications section 2900.					
	1200mm dia	M	39.00			
4.12	Rigid apron 150mm thick flat stone embedded in 300mm thick M-15 grade concrete as per drawing and technical specification Clause 2505.	Cum	682.06			
4.13	Providing & laying stone boulder apron complete as per drg. & MORT&H specifications section 2500.	Cum	635.85			
4.14	Providing & laying filter material underneath stone boulder pitching on slopes complete as per drg. and MORT&H specifications section 2500.	Cum	50.31			
4.15	Providing & laying stone boulder pitching on slopes complete as per drg. and MORT&H specifications section 2500.	Cum	100.61			
4.16	Providing & laying stone pitching on slopes for pipe culvert complete as per drg	Cum	66.34			
4.17	Providing & laying selected granular material for pipe bedding as per drg. and MORT&H specifications section 2900.	Cum	47.99			
4.18	plain cement concrete M-20 grade for head wall of culvert including centering and shuttering complete as per drawing and technical specification section 1500, 1700, 2100 and 2200.	Cum	358.71			
4.19	Providing and laying 12 mm thick mastic asphalt wearing course on top of deck slab excluding prime coat with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of 9.5 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature	Sq.m.	329.00			

	of surfaces not less than 100 deg. C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause 515.)					
4.20	Drainage Spouts complete as per drawing and Technical specification	Nos	6.00			
4.21	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification	Cum	25.56			
4.22	Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification	Cum	74.55			
4.23	Dismantling					
(i)	Plain Cement Concrete	cum	3.82			
(ii)	Pipe	m	30.10			
(iii)	Brick / Stone Structures	cum	33.40			
Bill no: -05: Drain						
5.1	Earthwork in excavation of foundation for structures including all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	cum	2021.12			
5.2	Providing & Laying Plain Cement Concrete M-15 levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	cum	1029.44			
5.3	Providing & Laying Reinforced Cement Concrete M-20 including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	Cum	127.50			
5.4	Supplying, fitting & placing in position HYSD / TMT bar reinforcement complete as per drg. and MORT&H specifications sections 1600.	MT	5.10			
Bill no: -06: Traffic Signs, Marking and Appurtenances						
6.1	Retro- reflectorised Traffic signs (Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)					
(i)	90 cm equilateral triangle (Give Way)	each	2			

(ii)	60 cm equilateral triangle	each	30			
(iii)	90 cm circular(Speed Limit at sharp bend)	each	2			
(iv)	90cm x 30cm rectangular (Object hazard)	each	84			
(v)	60 cm x 45 cm rectangular (Place identification)	each	4			
(vi)	60 cm x 50 cm rectangular Chevron (at sharp bend)	each	32			
6.2	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium 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 60 cm, 60 cm below ground level as per approved drawing)	Sqm	0.54			
6.3	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.)	Sqm	1533			
6.4	Kilometre Stone (Reinforced cement concrete M15 grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)					
(i)	5th kilometre stone (precast)	each	1			
(ii)	Ordinary Kilometer stone (Precast)	each	7			
(iii)	200 mt stone (Precast)	each	32			
6.5	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings.)	each	436			
6.6	Boundary pillar (Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25-1967, fixed in position including finishing and lettering but excluding painting)	each	80			
6.7	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 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 hole 30 mm upto a depth of 60 mm and bedded in	each	1682			

	a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)					
6.8	Convex Mirror at sharp curved	No	8			
Bill no:-07:Protection work						
7.1	Earthwork in excavation of foundation for structures including pipe culverts in all types of soil including lead & lifts complete as per drawings and MORT&H specifications clauses 304 & 2903.	Cum	1377.5			
7.2	Filter media behind abutments, wing walls, & return walls, including all material, labour, equipment carriage etc. all complete as per drawing and Technical Specification Clauses 305, 309 & 2504.	Cum	675			
7.3	Providing & Laying Plain Cement Concrete levelling course in open foundation including centering and shuttering but excluding reinforcement all complete as per drg. and MORT&H specifications sections 1500, 1700 and 2100.	Cum	1689.5			
7.4	Weep hole provided in drainage layer	Nos	1500			
Bill No 8: Environment and Social Management Plan.						
8.1	SITE SAFETY MEASURES: Barricading as per IRC SP-55 Rate shall be inclusive of cost of providing all materials and fixing arrangements, including excavation, transportation to site, fixing, backfilling, removal of the complete barricading after construction work is over and rehabilitation of the site etc., with all incidental charges, leads, lifts and all taxes and duties as applicable and as specified by Engineer-in-charge. Material of barricading shall be the property of contractor after completion the work. Barricading shall be maintained throughout the construction period. It should be installed in a manner so that one cannot crawl underneath it, should be sturdy enough to bear normal wear and tear at the construction site, should not topple off and hurt someone and should be strong enough to withstand the elements, including high wind conditions.	Rmtr	500			
8.2	Provision, installation and maintenance of cautionary/warning signage, including	No	2			

	diversion boards as per IRC specifications (SP:55, 2014) on the main road and along the access, including cost of boards and other materials required for fixing, with all incidental charges leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge					
8.3	Cost towards first aid and emergency response arrangements in the camp and worksite (including fire and electrical safety provisions)	Job	1			
8.4	Cost towards periodic health check-ups once in three months for all construction workers	Job	1			
8.5	Wet type portable toilet (MS fabricated) 2 seats (1 for men and 1 for women with separate entrances), fitted with 2000 liters capacity overhead tank and 500 liters capacity bottom tank, fitted with Indian type of pot with other facilities such as tap, lighting and ventilation; and sludge tank of capacity 1000L, and stationed at a suitable place in or around 50 meters from work front. Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.	No	2			
8.6	Dry type portable toilet (MS fabricated) (bio digester) of approved design with 2 seats (one for men and one for women). Includes cost of water, cost for emptying of bottom tank through mobile suction machine, attendant cost for looking after cleaning and operation of the toilets, all materials and labour charges, all incidental charges, leads, lifts and all taxes as applicable from time to time and as specified by Engineer-in-charge.	No	2			
8.7	Providing of mobile drinking water counter/kiosk, fabricated from stainless steel with 300 liters capacity, with two taps and with bottom tank (300 litre holding capacity) to collect waste water and stationed at a suitable place within operational area, with one common attendant for both mobile toilet and drinking water kiosk. Cost includes charges for emptying bottom tank through suction machine, shifting cost of the kiosk from one operational area to another area, attendant cost for looking after cleaning and operation, all materials and all labour charges, all incidental charges, leads, lifts	No	2			

	and all taxes as applicable from time to time and as specified by Engineer-in-charge					
8.8	OTHER ENVIRONMENT, HEALTH AND SAFETY MEASURES: Information dissemination about type and schedule of civil works, utility shifting/damage/emergency repairs, complaint handling and all such issues that affect public/near-by residents Road users close to the work zone. Dissemination modes to include display of banners/notices, distribution of handbills, organization of meetings and other appropriate means at least once in a month for the entire project duration.	Months	9			
8.9	Provision of Project Information Board in sheet steel and all supports, including fixing and maintenance during the entire project. Minimum board size should be 3 meters x 2 meters, with necessary information in English and local language written in black paint with white back ground. The board details and the required information will be furnished by the Engineer. The complete design, including logo and information to be displayed shall be approved by the Engineer	No	2			
8.10	Cost of environmental monitoring (air, water and noise) during entire construction period in line with parameters and frequency specified in the EMP. Ambient Air Quality-15000/Sample , Water Sample - 8000/Sample Ambient Noise Level- 3000/sample (Sampling can be done only during day hours because of security reasons ((12 Hourly Ambient Air Quality Monitoring for PM2.5 PM10,SO2, Nox and CO) -Noise Levels (dB) for Day and Night, Water Monitoring -Parameters specified in EMP).(Once in Quarter (AAQ) , Once in an Month (AAN) , As Specified in EMP (Water Monitoring)	Job	1			
8.11	Construction of silt traps at the discharge points of channels into to fresh water bodies across the project road as per the Standard Details provided.	Rmt	500			
	Total Bid Cost in Figures (INR)					
	A					
	Total Bid Cost in Words (INR)					

	Provisional Sum B	30,00,000				
	Total Cost including provisional sum (A+B)					