

Volume-2

SECTION 6

Financial Bid

PREAMBLE

Financial Bid for Lighting Works:

1. The Financial Bid shall be read in conjunction with the Instructions to Bidders, General and Special Conditions of Contract, Technical Specifications and Drawings.
2. The Bidder is required to submit design to the Employer & accordingly the price shall be arrived which are given to provide a common basis for bidding. The Bidder is also required to provide LT Connections at various chainages for energizing street lighting (as per chainage list) incl. of Demand notice, supervision charges, security deposit etc. (including Liasoning).
3. The Bidder to measure the work under the observation and control of the Engineer, which shall be valued at the rates provided in the Financial Bid, where applicable, and otherwise at such rates as the Engineer may fix within the terms of the Contract, which shall form the basis for payments to the Bidder.
4. A lump sum amount in the Financial Bid shall, except in so far as it is otherwise provided under the Contract, include all construction plant, labour, supervision, materials, all temporary works and false works, erection, transportation, maintenance, insurance, administrative overheads, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract, and including remedy of any defects during the Defects Liability Period.
5. A lump sum amount shall be entered against each item in the Financial Bid, whether quantities are stated or not.
6. The costs of complying with the provisions of the Contract shall be included in the items provided in the Financial Bid. Where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
7. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Financial Bid. References to the relevant sections of the Contract documentation shall be made before entering rates against each item in the Financial Bid.
8. The Financial Bid is comprised of the various Bills of Lighting works activities. During execution, however, the items existing in any of the Bills can be made applicable for execution elsewhere also on the Works if considered appropriate and directed by the Engineer.

9. The method of measurement of completed work for payment shall be as per Specification.
10. Errors, if any, shall be corrected by Employer in terms of Clause 27 of ITB.

Annexure -I

Design, Supply, Installation, Testing & commissioning for LED Lighting works at various locations within km 398.240 to km 521.120 on Barwa Adda Panagarh Road Project in the States of Jharkhand and West Bengal- Six-Laning of Barwa-Adda-Panagarh Section of NH-2 from km 398.240 to km 521.120 including Panagarh Bypass in the States of Jharkhand and West Bengal

Financial Bid

Sl. No.	Item/Particulars	Unit	Amount in INR
Part-A	a) Design, Supply, Installation, testing & commissioning of Main Street Light, High Mast & Truck Lay Bye Feeder Panels, includes the following but not limited to: -LT cable & termination -Termination -Earthing -Poles, high mast lighting, fixtures & fittings -Design, supply, installation, testing & commissioning of high mast lighting & fixture -Led light fixtures for flyover under deck lighting The technical specification of above items are mentioned in the Annexure 'A'	Lump Sum	
Part-B	b) Provision of LT Connection at various chainages for energizing street lighting (as per chainage list) incl. of Demand notice, supervision charges, security deposit etc. (excl. Lesioning)- TYPE (A) Qty-29nos	Lump Sum	
	c) Liasoning Charges for providing electrical connections. (Qty-29nos)	Lump Sum	
Total Amount in Rs. (Inc. of GST)			

Note:

1. The quoted lumpsum amount shall be inclusive of GST as per ITB Clause 42.1 and other applicable taxes.
2. The final lumpsum amount shall be based on design submitted by the Bidder.
3. The amount quoted by the Bidder shall be inclusive of cost of all the material and its Transportation to the site, Manpower, Scaffolding, Tools, plants and equipment's and other incidentals required for completion of work.
4. Bidder shall arrange all the necessary equipment's required to execute the work as per the Standards and Specifications and as per good industrial practice.

5. Bidder shall design, supply, install, test & commission any material, LED lights & fixtures as per technical specifications only from the sources specified in the Contract and/or as may be approved by Employer.
6. Performance security equivalent to 5% of Contract Price for which an irrevocable bank guarantees to be submitted from an approved scheduled bank/ nationalized bank in approved format. The Performance Bond will be valid right through the contract and till the end of 28 days from Defects Liability Period of 18 months.
7. 5% amount from each Running Account Bill of Bidder shall be deducted and withheld by Employer towards Retention Money. The retention money amounting to 5% shall be released interest free to Bidder by Employer upon successful completion of Defects Liability Period of 18 months. In case Bidder requests for releasing retention money earlier, the same shall be released only upon Bidder submitting a bank guarantee for equivalent amount from an approved scheduled bank/ nationalized bank in approved format with validity till completion of Defects Liability Period of 18 months.
8. Defects Liability period: 18 Months for civil & electrical works. However, in case of any delay by the Authority for issuing a Final Completion Certificate to Employer due to incomplete or unsatisfactory work of Bidder's scope, DLP shall be started after final completion certificate issued by the Authority to Employer.
9. The LED lights & fixtures will be under OEM warrantee period of 5 years from date of final completion certificate issued by Employer to Bidder for the entire works. The Bidder shall provide OEM Warranty certificates for LED Fixtures in favor of BAEL for a period of 5 years from date of handover. After completion of DLP of 18 months, the Bidder shall facilitate replacement of any faulty lights/fixtures under OEM Warranty through OEM and shall provide such Undertaking to that effect. Any assistance in replacement of LED lights/fixtures in the warranty period shall be provided by BAEL after such requests are made by the Bidder.
10. The Bidder shall submit invoices for the Supply Part for executed works with RA Bills. The RA Bills will not be processed further for release of payment in absence of the material invoices and test reports. Bidder shall also submit relevant Manufacturer Test Certificate for material used in the work as per relevant Codal Provision at the time of supply of material at site.
11. The Bidder shall ensure meeting all requirements of technical specifications and performance standards as provided in Employer's Concession Agreement signed with NHAI and MoRTH / IRC specifications.
12. The Bidder shall solely be responsible for implementation of Traffic Management and Diversion during execution of awarded work as per IRC:SP:55-2014 "Guidelines on Traffic Management in Work Zones, other relevant IRC Codes, Clause 112 of Specifications for Road & Bridge Works (5th Revision) and as per Annexure -5B of RFB Volume I. ***Failing to adhere to implement Traffic Management, Diversion and Safety as per agreed & defined norms shall result in imposition of penalty equivalent to 2% of amount from each Running Account Bill of the Bidder.***
13. TDS shall be deducted at the rates applicable as per provisions of Income Tax Act from Bidder's running bills. For this purpose, Bidder shall submit necessary documents / details / information's as may be required to Employer from time to time.

14. The Bidder shall be responsible for compliance as per prevalent Labor Laws including the labor cess compliances and its payment to Authority.
15. Work shall be executed under the supervision of Employer's representatives and payment shall be released to the Bidder. The Bidder shall prepare and submit the running account bill as per the milestones for Procurement & Supply of Lighting materials and on monthly basis for Installation Part. The milestone payment conditions have been defined in the contract data. Employer shall review / revise (if required) and then certify the same for release of payment. The certification shall be done by the Project Management Consultant, Lender's Independent Engineer and Employer.
16. Liquidated damages shall be imposed at 0.25% of Contract Value per week of delay limited to 10% of the total Contract Value applicable to each milestone completion. However, these Liquidated damages shall be returned on successful completion of the subsequent milestones within scheduled completion date. In case of delay beyond the scheduled completion date, the liquidated damages imposed shall not be returned.
17. If due to any reason known/unknown or unforeseen circumstances the Bidder may face any type of idling of your resources, plants, equipment, and manpower, Employer shall not take any responsibility for the same. No idling claims will be entertained due to whatsoever reason may be.
18. Necessary arrangement for food & accommodation for manpower and labor shall be at the cost of the Bidder. No extra payment shall be made to you for any enabling/temporary works and any changes due to site conditions at any point of time.
19. The Employer shall have the right to terminate this work order either on completion of the said work or at any intermediate phase upon the failure of the Bidder in maintaining the agreed rate of progress or not executing the work to the specified standards and specifications. The Employer also reserves the right to withdraw a portion of work or the entire work entrusted to the Bidder at any stage either for the purpose of executing directly or getting it done through other Bidder in case of default of the Bidder at the sole desertion of the Employer, without assigning any reasons.
20. Bidder shall maintain the safety for the construction workers as well as for the Road users as per the safety requirements during course of work and before opening the section (for traffic) where works got completed. All required safety precautions to be taken on Road, as per the Diversion plan approved by Employer and any lacuna on Safety front shall be viewed seriously and Bidder shall be penalized at the discretion of Employer. In case of any failure for not maintaining proper safety at site, Employer shall get it done through their own resources and cost of the same shall be debited to the Bidder as per the actual cost + 25% as overheads and supervision charges of Employer. All safety barricading and associated work for safety shall be executed by the Bidder.
21. The Bidder shall arrange for all insurances including Bidder's equipment and its own surrounding property, workmen's compensation, group accident, and group Medclaim. The Bidder shall provide proof of insurance to Employer before commencement of work. Employer shall not be held liable for any compensation towards any loss of life & property.
22. Above Financial Bid with lumpsum amount shall be submitted on letterhead of the Bidder with signature of authorized signatory and company stamp.

Technical Specifications

1. The technical specifications for Design, Supply, Installation, Testing & Commissioning for Lighting works is to be carried out by the successful Bidder, inter alia, includes the following but not limited to:

- (i) **Main street Light feeder panel: Design, Supply, Installation, testing & commissioning of Main Street Light Feeder Pillar (Location: Below grade separator bridge deck area)** Out-door, sheet steel metal clads, floor mounted type conforming to IS: 8623 (latest edition) with an enclosure protection of IP 65 as per IS: 2147. The Feeder Pillar (FP) shall be complete with key-lockable door; with bus Bars suitable for 1.1 kV with fault level with-stand: 10 KA current for 1 sec. The F P panel shall have the main bus with electrical components mounted and wire connections terminated as per SLD. & as follows:
INCOMER: 415 V, 50 Hz, 80A, 3P MCCB + Neutral Bus Bar: 1 No.
BUS BARS: 100 A TP + N + E Aluminum bus suitable for 1.1 KV with Fault with-stand current of 10 K A: 1 Set
MCB: 0.5 A to 4 A rating (Protection MCB)
CT operated direct reading type Ampere meter on existing panel, making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required.
Below 500 A (DIGITAL TYPE)
(0-500) V range Voltmeter on existing panel, making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required.
Digital type selector switch of 10 A for voltmeter (4 position) including making connection etc. as required.
CT linked selector switch of 10 A for Ampere meter (4 position) including making connection etc. as required.
INCOMING
With Thermal Magnetic release up to 80 Amp, 16 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu
OUTGOINGS:
: 415 V, 40 A, 4P MCB : 5 Nos.
: 415 V, 40 A, 4P Contactor: 5 Nos.
": 415 V, 40 A, 4P Contactor with contactor control through Astro-timer, control circuit along with 'ON' & ;OFF' switches.
: ON & OFF Indicating Light
: Over, Low Voltage & Neutral Failure Relay through control wiring"

if required then provide space for energy meter in panel compartment (Energy meter will be supplied & Installed by DISCOM)

P & F of AC operated heavy duty 230 /440 Volt power contactor conforming to IS:13947-4-1/IEC:947-4-1 having provision of mechanical interlocking, auxiliary contacts, Din rail mounting type including making connections, testing etc. as required.

"NOTE: All the MCB shall be suitable for 'Motor Duty' and the Contactors for 'AC3' duty.

Switcgear Make:- Siemens/Schneider/L&T"

Complete Set of Main Street Feeder Pillar as above

- (ii) **High mast Feeder Panel: Design, Supply, Installation, testing & Commissioning of High mast Feeder Pillar (Location: Below grade separator bridge deck area)** comprising of Out-door, sheet steel metal clad, floor mounted type conforming to I S: 8623 (latest edition) with an enclosure protection of IP 65 as per I S: 2147. The Feeder Pillar (FP) shall be complete with key-lockable door; with bus Bars suitable for 1.1 kV with fault level with-stand: 10 K A current for 1 sec. The F P panel shall have the main bus with electrical components mounted and wire connections terminated as follows:
INCOMER: 415 V, 50 Hz, 40A, 3P MCCB + Neutral Bus Bar: 1 No.
BUS BARS: 63 A TP + N + E Aluminum bus suitable for 1.1 K V with Fault with-stand current of 10 K A : 1 Set
1 No. 40 Amp TP MCCB as Incomer
1 Nos. 32 Amp TP Contactor - as Outgoing
1 Nos. 32 Amp TPN MCB - as Outgoing
Phase indicating light.
Digital VIF Meter
Time Switch
Electrolytic grade Aluminum TPN bus bar
Reverse forward switch with 2 nos contactor.
Panel Type - described as+B33:B44 above
- (iii) **Truck LAY BYE:** Design, Supply, Installation, Testing & commissioning of Truck Lay bye Feeder Pillar (Location: Below grade separator bridge deck area) comprising of Out-door, sheet steel metal clad, floor mounted type conforming to I S: 8623 (latest edition) with an enclosure protection of IP 65 as per I S: 2147. The Feeder Pillar (FP) shall be complete with key-lockable door; with bus Bars suitable for 1.1 kV with fault level with-stand: 10 K A current for 1 sec. The F P panel shall have the main bus with electrical components mounted and wire connections terminated as per SLD. & as follows:
- INCOMER: 415 V, 50 Hz, 40A, 3P MCCB + Neutral Bus Bar : 1 No.

- BUS BARS: 63 A TP + N + E Aluminum bus suitable for 1.1 K V with Fault with-stand current of 10 K A. : 1 Set
- 1 No. 32Amp TP MCCB as Incomer
- 2 Nos. 20Amp TP Contactor - as Outgoing
- 2 Nos. 20Amp TPN MCB - as Outgoing
- Phase indicating light
- Digital VIF Meter
- Time Switch
- Electrolytic grade Aluminum TPN bus bar
- Panel Type - described as above

(iv) **LT CABLE & TERMINATION:**

- a. Design, Supply, Installation, Testing & commissioning of P.V.C. / (XLPE Aluminium Armoured) insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I in ground including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, IInd class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size.
 - Sq.mm (3 core) Copper cable for flyover under deck lighting
 - 10.0 Sq.mm (4 core) Aluminium Cable for MCW + service road lighting
 - 25.0 Sq.mm (3.5 core) Aluminium Cable for High mast lighting
 - 50.0 Sq.mm (3.5 core) Aluminium Cable for LT meter to Main Feeder pillar
- b. **TERMINATION:** Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size:
 - 3 x 1.5 Sq.mm
 - 4 x 10.0 Sq.mm
 - 3.5 x 25.0 Sq.mm
 - 3.5 x 50.0 Sq.mm
- c. **Providing/Supply & Installation of Double wall corrugated HDPE pipe** conforming to IS: 14930 P - 1 & 2 with HDPE Coupler at 1 mtr. Depth below the ground for laying cable including making the trench and back filling, compaction of earth as required of Gemini or IS:14930 marked make. Outer Dia. / Inner dia. (USED FOR CABLE LAYING ON FLYOVER / SERVICE ROAD / ETC.)
 - Outer Diameter: 40 MM
 - Laying & Jointing R.C.C. class NP-2 (Non pressure) pipes (IS:458) with collars. Jointed with cement mortar of ratio 1:2 including excavation etc. as required.
 - 100 mm Dia with HDD (Horizontal Directional Drill)

- (v) **Earthing works:** Design, Supply, Installation Testing & Commissioning of Maintenance free Gel Earthing with Pipe in Strip Technology filled with anti-corrosive conductive compound (CPRI Tested) below the ground in 150 - 200 mm dia. earth pit & surrounding filled with required mineral filling compound (MFC should have hygroscopic property to retain the moisture for long time to create low resistance zone) and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300mm complete testing of earth resistance as required. of following sizes:
- GI Pipe 2000 mm Long, 50 / 25mm, Terminal 12 mm GI Strip
 - Supply & Laying Hot Deep GI earth wire/strip/GI Wire in horizontal or vertical run-in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required.
- (vi) **Pole erection: (Location of poles on Main carriageway on flyover at grade separator + service road - both covered by single pole with separate single/double arm bracket)**
- a. Design, Supply, Installation, testing & Commissioning of (Excluding CIVIL foundation work or MS Bracket for Pole Fixing with Chemical grout) of 9 MTR. Octagonal Pole, Top Dia A/F - 70 mm, Bottom Dia A/F - 155 mm, Base plate dim - 260x260X16 mm, Shaft Thickness - 3 mm. The Octagonal Poles shall be designed to withstand the maximum wind speed of 50Mtr/Sec as per IS, The Poles and Brackets shall be hot dip galvanized in single dipping as per BSEN ISO 1461, standards with average coating thickness of 70micron. Single / double arm bracket length is 1.0/2.0 mtr. conforming to technical specification. The poles shall be provided with Internal Junction box for termination of Incoming and Outgoing cables between pole to pole, the Junction box shall have 6mm thick Hylam Board, onto which 4P 63A heavy duty connector, DIN rail, termination box having 2 nos. of 6 Amp MCB, internal wiring inside pole 1.5 sq mm ISI mark copper flexible wire, The Octagonal Poles shall be single section (upto 12 mtr). There is no circumferential weld joint. Electrical Bidder / Lighting manufacturer submit the Lux Design with shop drawings & get approval from Electrical Consultants before execution at site. Spiral Earthing (If ground Available) for each streetlight pole complete with 8 SWG galvanized wire having 5 feet deep in ground and 1 feet spiral portion covered by salt, coal etc. or Connect earthing through cable steel / wire armored only. Galvanized Steel Bracket with Chemical grout Fast Nut for Fixing of Pole on Crass Barrier or Pole CC foundation in approach area.

b. Design, Supply, Installation, Testing & Commissioning of LED STREET Light with Aluminum die cast housing , toughened extra clear glass cover , lens, IP 66 protection and Luminous efficacy ≥ 120 to 145 lumens/watt for supply voltage 100-270V AC, 50Hz., 10KV & 5 KV internal & outer SPD Protection, up to 120V to 395V with potted driver protection, Lifetime (up to 50000Hrs) as per L80,THD < 20% , PF .095, Uniformity as per NHA I Standard, Luminaries shall be confirm to IS : 10322 part-5/section 5 (Make:- Bajaj, Philips, Wipro, Crompton, Osram, 5 Years warranty).

c. Design, Supply, Installation, Testing & Commissioning of STREET Light with Aluminum die cast housing , toughened extra clear glass cover , lens, IP 66 protection and Luminous efficacy ≥ 120 to 145 lumens/watt for supply voltage 100-270V AC, 50Hz., 10KV & 5 KV internal & outer SPD Protection, up to 120V to 395V with potted driver protection, Lifetime (up to 50000Hrs) as per L80,THD < 20% , PF .095, Uniformity as per NHA I Standard, Luminaries shall be confirm to IS : 10322 part-5/section 5 (Make:- Bajaj, Philips, Wipro, Crompton, Osram 5 Years Warranty)

d. Design, Supply, Installation, Testing & Commissioning of LED STREET Light with Aluminum die cast housing , toughened extra clear glass cover , lens, IP 66 protection and Luminous efficacy ≥ 120 to 145 lumens/watt for supply voltage 100-270V AC, 50Hz., 10KV & 5 KV internal & outer SPD Protection, up to 120V to 395V with potted driver protection, Lifetime (up to 50000Hrs) as per L80,THD < 20% , PF .095, Uniformity as per NHA I Standard, Luminaries shall be confirm to IS : 10322 part-5/section 5 (Make:- Bajaj, Philips, Wipro, Crompton, Osram - 5 Years Warranty)

(vii) **High Mast Lighting:** Design, Supply, Installation, Testing & commissioning of High mast Lighting & Fixture:

- Height of High mast- 25 MTR
- No. of section - 3
- Material Construction shaft - BS-EN10 025,S-355
- Thickness- Top-3mm Middle-4 mm, Bottom 5 mm
- Base & Top Diameter- Bottom- 460 Top- 150 mm
- Metal protection Treatment- Hot Dip Galvanized Method of Dipping- Single Dipping
- Average Thickness of Galvanization- As per BS EN ISO 1461
- PCD - 590 mm
- Foundation Bolt- M30/ 850x12

- Luminaire Capacity- 12
- SS Wire Rope Grade- AISI 316
- Number of Ropes- 3 Rope System
- Construction- 7/19
- Centre core material-Stainless steel core
- Diameter (mm)- 6mm
- Braking Load Capacity- 2350
- Factor of Safety- >5 for system full load
- Winch
- Number of Drum/winch- Double Drum type
- Gear Ratio- 53:1
- Capacity- 750 KG
- Method of Operation- Manual/Electrical
- Lubrication Arrangement- Permanent Oil Bath

(viii) **LED Street lighting:** Design, Supply, Installation, Testing & Commissioning of LED light fixtures for High mast lighting: LED FLOOD Light with Aluminum die cast housing , toughened extra clear glass cover , lens, IP 66 protection and Luminous efficacy ≥ 120 to 145 lumens/watt for supply voltage 100-270V AC, 50Hz., 10KV & 5 KV internal & outer SPD Protection, up to 120V to 395V with potted driver protection, Lifetime (up to 50000Hrs) as per L80,THD < 20% , PF .095, Uniformity as per NHAH Standard, Luminaires shall be confirm to IS : 10322 part-5/section 5 (Make:- Bajaj, Philips, Wipro, Crompton, Osram, Havells or equivalent make with 5 Years warranty).

(ix) **LED light fixtures for Flyover under deck lighting :** Design, Supply, Installation, Testing & Commissioning of LED FLOOD Light with Aluminum die cast housing , toughened extra clear glass cover , lens, IP 66 protection and Luminous efficacy ≥ 135 lumens/watt for supply voltage 100-270V AC, 50Hz., 10KV & 5 KV internal & outer SPD Protection, up to 120V to 395V with potted driver protection, Lifetime (up to 50000Hrs) as per L80,THD < 20% , PF .095, Uniformity as per NHAH Standard, Luminaire shall be confirm to IS : 10322 part-5/section 5 (Make:- Bajaj, Philips, Wipro, Crompton, Osram, 5 Years warranty)

1.1 Apart from scope of works (Design, Supply, Installation, Testing & commissioning works for LED Street Lighting), the Bidder is required to provide LT Connections at various chainages for energizing street lighting (as per chainage list) incl. of Demand notice, supervision charges, security deposit etc. (including Liaoning). Further refer to the *Section -5 Volume-I* for the Specification.

SECTION 7

SECURITIES AND OTHER FORMS

SECTION 7: SECURITIES AND OTHER FORMS

Form – 7A	:	Form of Bid
Form – 7B	:	Bid Security (Bank Guarantee)
Form – 7C	:	Letter of Acceptance
Form – 7D	:	Deleted
Form – 7E	:	Deleted
Form – 7F	:	Deleted
Form – 7G	:	Deleted
Form – 7H	:	Bank Guarantee for Advance Payment
Form – 7I	:	Performance Bank Guarantee

Forms of Securities

Acceptable forms of securities are annexed. Bidders should not complete Advance Payment Security forms at this time. Only the successful Bidder will be required to provide Advance Payment Securities in accordance with one of the forms, or in a similar form acceptable to the Employer.

FORM OF BID

Barwa Adda Expressway Limited

The IL&FS Financial Center,
Plot C-22, G Block,
Bandra Kurla Complex,
Mumbai- 400051, Maharashtra
Tel.: +91 022-26593609,

Gentlemen,

Sub.: Six-Laning of Barwa-Adda- Panagarh Section of NH-2 from km 398.240 to km 521.120 including Panagarh Bypass in the States of Jharkhand and West Bengal

Design, Supply, Installation, Testing & commissioning for LED Lighting works at various locations within km 398.240 to km 521.120 on Barwa Adda Panagarh Road Project in the States of Jharkhand and West Bengal

Scope _____

1. We offer to execute the Works described above in accordance with the Bidding Documents including Invitation for Bid, Instructions to Bidders, Conditions of Contract, Specifications and Drawings, Financial Bid, Annexures and Addenda for the Prices and sum mentioned in Annexure 1(a) of Section 6 of the Bidding Document attached with this letter. As per this, the payment for Works is ₹ _____ as per the sum total as given in Annexure 1(a) of Section 6.
2. We understand that you are not bound to accept the lowest or any Bid you receive.
3. Unless and until an Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us, but without prejudice to your right to withdraw such acceptance under the provisions of the Bid Document.
4. We assure you that the criteria based on which we are qualified are valid.
5. We agree to abide by this Bid for the period of **Sixty (60) days** from the closing date of Bid Submission, and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

6. We understand that for this Bid, we shall comply with the Eligibility, Bid Validity and Bid Security required as stated in the Bidding documents. We attach herewith our current Income Tax clearance certificate.

7. We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

Yours faithfully,

Authorized Signature:

Name & Title of Signatory:

Name of Bidder with official seal:

Address :

BID SECURITY (BANK GUARANTEE)

WHEREAS, _____ [name of Bidder] (hereinafter called "the Bidder") has submitted his Bid dated _____ [date] for the works **“Six-Laning of Barwa-Adda- Panagarh Section of NH-2 from km 398.240 to km 521.120 including Panagarh Bypass in the States of Jharkhand and West Bengal – “Design, Supply, Installation, Testing & Commissioning for LED Lighting works at various locations within km 398.240 to km 521.120 on Barwa Adda Panagarh Road Project in the States of Jharkhand and West Bengal”** (Hereinafter called "the Bid").

Scope _____

KNOW ALL PEOPLE by these presents that We _____ [name of bank] having our registered office at _____ (hereinafter called "the Bank") are bound unto **Barwa Adda Expressway Limited** (hereinafter called "the Employer") in the sum of _____ for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 2023
THE CONDITIONS of this obligation are:

- (1) If after Bid opening the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid; or
- (2) If the Bidder having been notified of the acceptance of his Bid by the Employer during the period of Bid validity:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - (b) Deleted
 - (c) does not accept the correction of the Bid Price pursuant to Clause 27 of ITB;

we undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the

occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including 60 days after the Bid validity period as stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK

WITNESS _____ SEAL _____

[signature, name, and address]

(Letterhead paper of the Employer)

Letter of Acceptance

To: [name and address of the Bidder]

[date]

Sub.: Six-Laning of Barwa-Adda- Panagarh Section of NH-2 from km 398.240 to km 521.120 including Panagarh Bypass in the States of Jharkhand and West Bengal

Design, Supply, Installation, Testing & commissioning for LED Lighting works at various locations within km 398.240 to km 521.120 on Barwa Adda Panagarh Road Project in the States of Jharkhand and West Bengal

Scope:- _____

Dear Sirs,

1. It is hereby confirmed that your Bid received on _____ submitted to the Barwa Adda Expressway Limited (BAEL) for the work mentioned in the subject above has been accepted for and on behalf of the BAEL for an amount mentioned below on rates quoted by you and the terms and conditions as contained in Volume-1 and Volume-2 of bidding documents and subsequently addendum/corrigendum issued.
2. The accepted amount of the bid for the above-mentioned work in consideration, execution, completion and maintenance of works by you as prescribed in the bidding documents is as under:

Particulars	Bid amount indicated by you (in ₹)	Amount of Bid after arithmetical corrections (in ₹)	Rebate offered	Bid Amount after Rebate (in ₹.)
Design, Supply, Installation, Testing & commissioning for Lighting works				
TOTAL				

3. The net accepted amount of the Bid is ₹_____ (₹ *In words*).
4. The date of start will be as defined in S. No. 5 of Contract Data.
5. The period of completion of whole work is as defined in S. No. 10 of Contract Data as Contract Completion Date.
6. Deleted.
7. You are also requested to sign and execute the Contract Agreement within 28 days, failing which action as stated in Para 32.3 of ITB will be taken.
8. You are requested to submit a detailed supply & Installation works Program including Environment and Traffic Management Plans as per Clause 25 of General Conditions of Contract, Section 3, Part-I within 21 days of receipt of this letter.

Yours faithfully,

Authorized Signatory
Name and Title of Signatory
Name of Agency

Form – 7D
(Please refer Clause 32 of ITB)

Deleted

Form – 7F
(Please refer Clause 31 of ITB)

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FORM OF AGREEMENT

Agreement

GENTLEMEN

This agreement, made the _____ day of _____ 2023 between Barwa Adda Expressway Limited, The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai- 400051, Maharashtra, India (hereinafter called “the Employer” which expression shall unless the context otherwise requires, include its successors and assigns) of the one part and _____ [name and address of contractor] (hereinafter called “the Contractor” which expression shall unless the context otherwise requires, include its successors and assigns) of the other part.

Whereas, Employer is desirous that Contractor to execute works “**Design, Supply, Installation, Testing & Commissioning for LED Lighting works at various locations within km 398.240 to km 521.120 on Barwa Adda Panagarh Road Project in the States of Jharkhand and West Bengal**” (Hereinafter called “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a contract price as given in this Contract.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:

- i) Letter of Acceptance;
- ii) Contractor's Bid;
- iii) Contract Data;
- iv) Conditions of Contract (including Special Conditions of Contract);
- v) Specifications;
- vi) Drawings; if any
- vii) Bill of Quantities
- viii) Any other document forming part of the Contract.

In witness whereof, the parties thereto have caused this Agreement to be executed the day and year first before written.

Signed, Sealed and Delivered by the said Employer through his authorized representative and the said Contractor through his Power of Attorney Holder:

FOR AND ON BEHALF OF
Barwa Adda Expressway Limited
By

Witness:
1) Signature _____

Name _____

Address _____

AUTHORIZED REPRESENTATIVE

2) Signature _____

Name _____

Address _____

FOR AND BEHALF OF

M/s _____

By

1) Signature _____

Name _____

Address _____

2) Signature _____

Name _____

Address _____

BANK GUARANTEE FOR ADVANCE PAYMENT

To,
Barwa Adda Expressway Limited
The IL&FS Financial Center,
Plot C-22, G Block,
Bandra Kurla Complex,
Mumbai- 400051, Maharashtra
Tel.: +91 022-26533333,
Facsimile: +91 022-26523979

Bank Guarantee No.-----dated ----- for ₹-----

WHEREAS vide the “**Design, Supply, Installation, Testing & Commissioning for LED Lighting works at various locations within km 398.240 to km 521.120 on Barwa Adda Panagarh Road Project in the States of Jharkhand and West Bengal**” Contract dated ---- (hereinafter referred to as “the Contract”), _____ [name of Contractor] a company incorporated under the Companies Act, 1956 and having its registered office at _____ (hereinafter referred to as the ‘Contractor’ which expression shall unless repugnant to or inconsistent with the context mean and include its successors and assigns) has been awarded by **Barwa Adda Expressway Limited**, having its registered office at The IL&FS Financial Center, Plot C-22, G Block, Bandra Kurla Complex, Mumbai-400051, Maharashtra, India , (hereinafter referred to as the ‘Employer’ which expression shall unless repugnant to or inconsistent with the context mean and include its successors and assigns), the contract for the works “**Design, Supply, Installation, Testing & Commissioning for Lighting works at various locations within km 398.240 to km 521.120 on Barwa Adda Panagarh Road Project in the States of Jharkhand and West Bengal**”.

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you **Advance Payment Guarantee** security, at the time of forwarding a request for Advance payment, from a specified **nationalized/scheduled bank**, for the sum proposed to be released as Advance Payment in accordance with the terms and conditions of the Contract.

AND WHEREAS WE, _____ [name of Bank], a body corporate, constituted under [relevant Act] and having its head office at _____ and branch office at _____ have agreed to furnish Advanced Payment Guarantee for a sum of ₹ _____ (**Rupees _____ Only**) (hereinafter referred as the guaranteed amount) as security for compliance of the Contractor’s obligations under the Contract;

NOW THEREFORE we hereby affirm that we, as the Guarantor, are responsible to you, on behalf of the Contractor for the guaranteed amount and we irrevocably undertake to pay you, upon your first written demand and without demur or argument, any sum or sums within the limits of the guaranteed amount as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified herein. The guaranteed amount shall be payable merely on demand by the Employer. Any certification or letter stating that the amount claimed in the demand notice is due and payable, signed by a duly authorised official of the Employer to this effect, shall be final, binding and conclusive upon us.

We hereby agree to pay on demand the guaranteed amount without demur by crediting to the Bank Account of the Employer, the details of which are to be informed to us by you during the validity of the guarantee.

We hereby undertake that this Guarantee is absolute, irrevocable and unconditional and shall be enforceable against us notwithstanding any security or securities comprised in any instrument executed or to be executed by the Contractor in favour of the Employer.

We hereby also agree that this guarantee shall not be wholly or partially satisfied or exhausted by any payments made to or settled with the Employer by the Contractor and shall be valid and binding on us and operative until the expiry of this Guarantee.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

The jurisdiction in relation to this Guarantee shall be the Courts at Mumbai and laws of India shall be applicable. This guarantee shall be valid up to 45 days beyond the period of stipulated period of complete recovery defined in S. No. 18 of Contract Data _____ (Expiry Date). We hereby agree to renew and extend the validity of this Guarantee on request from you. Unless a demand or claim is lodged within the aforesaid time, i.e. Expiry Date, your rights under this Guarantee shall be forfeited and we shall not be liable there under.

WE hereby represent that there is no litigation or arbitration or other proceedings pending against us which could reasonably be expected to have a material adverse effect or change in our ability to perform our obligation under this Guarantee.

Notwithstanding anything contained herein:

- a) our liability under this Guarantee shall not exceed the guaranteed amount i.e. ₹ _____ (Rupees _____ Only)
- b) this guarantee shall be valid up to _____ (Expiry Date) and

- c) we shall be liable to pay the guaranteed amount under this Guarantee only and only if we receive a written claim or demand duly signed by a duly authorised official of the Employer before the _____ as mentioned above or any other extended date.

IN WITNESS WHEREOF we have executed this Guarantee on this ____ day of _____,
_____.

Signature

Date and place

FORMAT FOR PERFORMANCE BANK GUARANTEE

To,
Barwa Adda Expressway Limited
The IL&FS Financial Center,
Plot C-22, G Block,
Bandra Kurla Complex,
Mumbai- 400051, Maharashtra
Tel.: +91 022-26593609,

WHEREAS:

- (A)..... (the “**Bidder**”) and *Barwa Adda Expressway Limited* (the “**Employer / BAEL**”) have entered into a Contract Agreement dated (the “**Agreement**”) whereby *BAEL* has awarded **Six-Laning of Barwa-Adda-Panagarh Section of NH-2 from km 398.240 to km 521.120 including Panagarh Bypass in the States of Jharkhand and West Bengal – Design, Supply, Installation, Testing & commissioning for LED Lighting works at various locations within km 398.240 to km 521.120 on Barwa Adda Panagarh Road Project in the States of Jharkhand and West Bengal** subject to and in accordance with the provisions of the Agreement.
- (B) The Agreement requires the Bidder to furnish a Performance Security to the Employer / BAEL in a sum of **5% of Agreed Contract Value (Excluding GST)** as security for due and faithful performance of its obligations, under and in accordance with the Agreement, during the Contract Period (as defined in the Agreement).
- (C) We, through our Branch at (the “**Bank**”) have agreed to furnish this Bank Guarantee by way of Performance Security.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Bidder’s obligations during the Installation Period, under and in accordance with the Agreement, and agrees and undertakes to pay to the BAEL /Employer, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Bidder, such sum or sums up to an aggregate sum of the Guarantee Amount as the BAEL / Employer shall claim, without the Employer / BAEL being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.

2. A letter from BAEL/Employer that the Bidder has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the BAEL/Employer shall be the sole judge as to whether the Bidder is in default in due and faithful performance of its obligations during the Installation Period under the Agreement and its decision that the Bidder is in default shall be final, and binding on the Bank, notwithstanding any differences between the Employer / BAEL and the Bidder, or any dispute between them pending before any court, tribunal, arbitrators or any other authority or body, or by the discharge of the Bidder for any reason whatsoever.
3. In order to give effect to this Guarantee, the Employer / BAEL shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Bidder and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Employer / BAEL to proceed against the Bidder before presenting to the Bank its demand under this Guarantee.
5. The Employer / BAEL shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Agreement or to extend the time or period for the compliance with, fulfilment and/ or performance of all or any of the obligations of the Bidder contained in the Agreement or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Employer / BAEL against the Bidder, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Agreement and/or the securities available to the Employer / BAEL, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Employer / BAEL of the liberty with reference to the matters aforesaid or by reason of time being given to the Bidder or any other forbearance, indulgence, act or omission on the part of the Employer / BAEL or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Employer / BAEL in respect of or relating to the Agreement or for the fulfilment, compliance and/or performance of all or any of the obligations of the Bidder under the Agreement.

7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force until the successful completion of ***Defect Liability Period of 18 Months from the Date of issue of Completion Certificate*** and unless a demand or claim in writing is made by the Employer / BAEL on the Bank under this Guarantee, no later than 6 (six) months from the date of expiry of this Guarantee, all rights of the Employer / BAEL under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Employer / BAEL in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
9. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred Branch, which shall be deemed to have been duly authorised to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Employer / BAEL that the envelope was so posted shall be conclusive.
10. This Guarantee shall come into force with immediate effect and shall remain in force and effect for a period as mentioned in point 7 or until it is released earlier by the Employer / BAEL pursuant to the provisions of the Agreement.
11. This guarantee shall also be operatable at our _____ branch at Mumbai, from whom, confirmation regarding the issue of this guarantee or extension/ renewal thereof shall be made available on demand. In the contingency of this guarantee being invoked and payment hereunder claimed, the said branch shall accept such invitation letter and make payment of amounts so demanded under the said invocation.

Signed and sealed this day of, 2023..... at

SIGNED, SEALED AND DELIVERED
For and on behalf of
the BANK by:

(Signature)
(Name)
(Designation)
(Code Number)

(Address)

NOTES:

- i. The bank guarantee should contain the name, designation and code number of the officer(s) signing the guarantee.
- ii. The address, telephone number and other details of the Head Office of the Bank as well as of issuing Branch should be mentioned on the covering letter of issuing Branch.