

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION COMPANY LIMITED

(A Government of India Undertaking)

27, RAJENDRA NATH MUKHERJEE ROAD, KOLKATA- 700 001

Ph: (033) 2248 5841-44; Fax: (033) 2210-3961; WEB SITE: www.bbjconst.com;

Email: info@bbjconst.com; bbj@india.com;

TENDER NO.	NIT/DGM(P-V)/Blasting/Metallising/ Painting/2132/3112	DATE	05.01.2016
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NOTICE INVITING TENDER

Sealed Tenders are invited from reputed agencies for the following work:

1.	NAME OF THE WORK	SAND BLASTING, METALLISING AND/OR PAINTING FOR FABRICATED STEEL CRASH BARRIER & COVER PLATE OF GANGA BRIDGE AT MUNGER, BIHAR.
2.	QUANTITY	AS PER BOQ 1 or BOQ 2
3.	COMPLETION PERIOD	01 Month from the date of LOI or Order
4.	EARNEST MONEY DEPOSIT	Rs. 25,000/= (RUPEES TWENTY FIVE THOUSAND ONLY) BY PAY ORDER/ DEMAND DRAFT/BANKERS CHEQUE IN FAVOUR OF "THE BRAITHWAITE BURN & JESSOP CONSTRUCTION COMPANY LIMITED" PAYABLE AT KOLKATA. SSI UNITS WITH NSIC REGISTRATION ARE EXEMPTED FROM SUBMITTING EMD. EXISTING CONTRACTORS WORKING WITH BBJ MAY ADJUST EMD FROM THEIR PENDING BILLS AT BBJ.
5.	ISSUE OF TENDER DOCUMENT	BETWEEN 05.01.2016 AND 18.01.2016 DURING OFFICE HOURS AT BBJ OFFICE. THE TENDER DOCUMENT MAY ALSO BE DOWNLOADED FROM website: www.bbjconst.com or www.eprocure.gov.in (CPP PORTAL). "CORRIGENDUM", IF ANY. WOULD APPEAR ONLY ON THE BBJ'S WEBSITE.
6.	LAST DATE & TIME OF RECEIPT OF TENDER	RECEIPT UP TO 11.30AM ON 18.01.2016 AT BBJ OFFICE.
7.	OPENDING OF TENDER (TECHNO COMMERCIAL PART)	ON 18.01.2016 IN BBJ OFFICE AT 3:30 PM

(A. NEOGI)
DGM(P-V)

TENDERER

BBJ

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IB-1

INSTRUCTION TO BIDDERS

1.	SUBMISSION OF BID : All the pages of the tender document should sign with Company's seal by the bidders. The rates in the appropriate space in the Bill of Quantities (BOQ 1 & 2) should be properly filled, both in figures and words. No overwriting, using of correction fluid will be allowed. Any correction will be done by scoring out the incorrect entry and inserting the new entry in a legible manner. Both the correction and new entry to be signed and sealed with Company's seal. In the event of any difference between figure & words of the quoted rates, the rate in word shall be considered for evaluating the tender.
2.	Documents to be submitted with tender document:-
a)	Sub-Contractor's experience certificate pertaining to job of similar nature. The Sub-Contractor should have completed in last five years one similar nature job of 3500 sqm of sand blasting, metallizing and/or painting work at project site. Should have successfully completed painting work in erected steel structure at a minimum height of 10M from Ground level/ water level.
b)	Copy of PAN, VAT/Central Sales Tax, PF & ESI Registration Certificate, Audited Annual Accounts for last 3 years, NSIC certificate for SSI units should be provide.
c)	Earnest Money Deposit of Rs 25,000/= (Rupees Twenty five thousand only), in the form of Demand Draft or pay order or Bankers Cheque Payable at Kolkata, drawn in favour of "The Braithwaite Burn & Jessop Construction Co. Ltd."
d)	PRICE PART : The tenderer should submit Bill of Quantity (BOQ-1 & BOQ-2) with properly filled up.
e)	Document, as mentioned above for submission of tender, duly sealed and signed to be put in an envelope superscribing " TENDER NOTICE NO. " with Date.
3.	Conditional tenders shall be straightway rejected and no additional clause will be entertained.
4.	BBJ administration reserves the right to accept/reject any or all of the tenders and split the scope of work into more than one agency in the ratio of 60%:40% between L1 & L2 bidders (provided L2 bidder accepts L1 rate) respectively without assigning any reason whatsoever. No claim will be entertained on account of this.
5.	All duties, taxes, fees and other levies , payable by the Sub-Contractor under the contract or any other cause, shall be included in their quoted price.
6.	VALIDITY OF TENDER – 90 (Ninety) days from the date of opening of tender or for a further period if mutually accepted.
7.	COMPLETION TIME – The entire work should be completed within one (1) month from the date of LoI/Order in accordance with Clause Nos. 4 & 5 of Special Condition of Contract of this tender Document.
8	PREFERENCE OF DOCUMENTS : In case of ambiguities, order of preference is as follows: - 1 ST : INSTRUCTIONS TO THE BIDDERS. 2 ND : SCOPE OF WORK. 3 RD : SPECIAL CONDITION OF CONTRACT. 4 TH : TECHNICAL SPECIFICATION. 5 TH : BILL OF QUANTITIES. 6 TH : INDIAN STANDARDS.

TENDERER

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SOW-1

SCOPE OF WORK

1.	JOB CONTENT: (IN GENERAL, BUT MAY NOT BE LIMITED TO)
A)	FOR SAND BLASTING, METALLIZING AND/OR PAINTING WORK AT BBJ's GANGA BRIDGE PROJECT SITE, MUNGER, BIHAR.
	The job to be carried out in accordance to the <u>BOQ-1 OR BOQ-2</u> and as will be advised by our site-in-charge and also consists of the followings:
(i)	Establishing Sub-contractor's own Site Office, Store & Security arrangement at site duly approved by Engineer-In-Charge/BBJ. Making necessary arrangement at site to ensure all safety and security of site personnel, Plant & Machineries, material etc.
(ii)	BBJ will provide establishment of Secured Temporary Arrangement to ensure environmental protection and to enable work during extreme weather condition as far as possible. The above arrangement has to be maintained by the contractor.
(iii)	Receipt of fabricated members from BBJ at Metallising/Painting Yard and laying/stacking the items properly
(iv)	Sand Blasting, Metallising/Painting as per requirement and as per technical specification.
(v)	Marking on the members as per instructions of Engineer-In-Charge/BBJ.
(vi)	To undertake all testing as specified in the Technical Specification of this tender document.
(vii)	Arranging necessary inspection and getting the subject work approved by BBJ/E.C.RAILWAY or their Authorised Representative.
(viii)	All cost and expenses incidental to pre-tender site-visit, pre-award discussion with BBJ shall be to the account of the tenderer & BBJ shall bear no liability on such cost expenses.
(B)	SCOPE OF SUPPLY OF THE SUB-CONTRACTOR (TO BE INCLUDED IN THE QUOTED PRICE)
(i)	All labours, tools and tackles required for execution of the subject work.
(ii)	Supervision for the subject work.
(iii)	Sand and Metallising wire as per RDSO & E.C. Railways technical specification enclosed (to be procured from manufacturers approved by BBJ/E.C.RAILWAY and no claim will be entertained in this account).
(iv)	All consumables like spray gun, paint brush etc., whatsoever required for proper execution of the work to be supplied by sub-contractor.
(v)	Fuel, Lubricant etc. to run the Plant and Machineries and other works.
(vi)	Supplying Manufacturer's Test Certificates for metallising wire.
(vii)	Providing thickness measuring gauge as specified in Technical Specification of this tender document.
2.	FREE SUPPLY BY BBJ TO SUB-CONTRACTOR FOR METALLISING/ PAINTING WORK AT SITE:
i)	BBJ will provide free of cost suitable land near work site and set up sub-contractor's metallising/painting yard. Land will be also given to the sub-contractor free of cost for setting up site office/store.
ii)	Free water at one point near site.
iii)	Power for site lightning at free of cost will be provided to the sub-contractor. However, no power will be provided to the sub-contractor for compressor.
iv)	Paint as required.
v)	LPG & Oxygen as required for metalizing work.

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TS-1

TECHNICAL SPECIFICATION

1.0 PAINTING

Specifications for metallising and painting of bridge girders shall be as per IRS:B1-2001.

1.1 SURFACE PREPARATION (FOR ALL TYPES OF PAINTING & METALLISING)

Surface of all **components/members** of the superstructure shall be prepared as per following provisions before application of first coat of paint/primer or before Metallising.

- (i) The surface should be clean, dry and free from contaminants and it should be rough enough to ensure adhesion of the paint film. However it should not be so rough that the film cannot cover the surface peaks.
- (ii) The cleaning of the surface shall be done initially with the use of emery paper, wire brushes, scrapers etc. for spot cleaning to remove rust scale etc. Subsequently, sand blasting of the surface shall be done to remove rust, mill scale along with some of the base metal. This will be achieved by high velocity impact of abrasive material against the surface in accordance with the provision of IS:6586, which will also create a base for good adhesion. The abrasive material once use for cleaning heavily contaminated surface should not be reused even though re-screened. Washed salt free angular silica sand of mesh size 12 to 30 with a minimum of 40% retained on a 20 mesh screen shall be used for blasting. The material specifications and other requirements shall be as provided in Indian Railways Bridge Manual, 1998.
- (iii) All site rivets, bolts, nuts and washers shall be thoroughly cleaned and dipped in boiled linseed oil. All machined surfaces are to be well coated with a mixture of white lead conforming to IS:34 and Mutton tallow conforming to IS:887 as per specifications before dispatch to site. Nothing extra shall be payable to contractor on this account.
- (iv) Technical specification of RDSO & E.C. RAILWAY may be collected from BBJ H.O.

1.2 Metallising and Painting of Steel structure of the Bridge:-

1. All the components in the floor in open web girders shall be metallised as per IRS specifications. Components to be metallised in rail deck are cross girders, stringers and connecting gussets.
2. The sprayed coating shall be applied as soon as possible after surface preparation. The wire method shall be used for the purpose of metallising, the diameter of the wire being 3mm or 5mm as per approved by Engineer.
3. The composition of the aluminium to sprayed shall be in accordance with BS:1475, material 1-B(99.5%) aluminium otherwise as per IS:739 and IS:2590. However, the selection of metal for spraying i.e. Zinc or aluminium shall be subject to final approval by the Engineer.
4. Specification thickness of coating shall be applied in multiple layers and in no case less than 2 passes of the metal spraying unit shall be made over every part of the surface. The surface after spraying shall be free from uncoated parts of lumps of loosely spattered metal.
5. At least one layer of the coating must be applied within four hours of blasting and the surface must be completely coated to the specified thickness within 8 hours of blasting.
6. Minimum thickness of metal coating applied shall be 115 microns and average thickness shall be 150 microns. The metal coating shall be checked for thickness by approved magnetic thickness measuring gauge. At least one reading for each sqm of area painted shall be taken. The calibration of the gauge shall be checked against a standard of similar thickness within an accuracy of 10%.
7. For measurement of dry film thickness, following instruments may be used by the contractor. Dry film thickness is to be measured as described in Appendix-VII of IRS B1-2001.
 - (a) Electronic coating thickness gauge.
 - (b) Elcometer (magnetic thickness gauge) Dial type.
 - (c) Surface profile gauge.

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TS-2

TECHNICAL SPECIFICATION

8. Any oil, grease or other contamination should be removed by thorough washing with suitable thinner until no visible traces exist and the surfaces should be allowed to dry thoroughly before application of paint. The coatings may be applied by brush or spray. If sprayed, pressure type spray guns must be used. One coat of wash primer to IS:5666 shall be applied first. After 4 to 6 hours or the application of the wash primer, one coat of Zinc chrome primer to IS: 104 with the additional provision that Zinc chrome to be used in the manufacture of primer shall conform to type 2 of IS:51 shall be applied.
9. The third coat shall be by Aluminium paint conforming to IS:2339. The girder parts shall be dispatched to site after the third coat (i.e. first finishing coat or cover coat).

1.3 Painting of other components/parts of Girders.

Protective coatings by paintings as per following painting schedule may be applied with the approval of the Engineer:

- a) **Primer Coat** : One coat of ready mixed zinc chromate priming to IS:104 followed by one coat of ready mixed paint red oxide zinc chrome priming paint to IS:2074.
- b) **Finishing Coat** : Two coats of aluminium paint to IS:2339 shall be applied over the primer coats. In the workshop, one coat of primer shall be applied. Before dispatching the girder parts to the site, the finishing coat (cover coat) shall be applied. After assembling and erection at site, the second finishing coat shall be applied, after touching up the primer and finishing coat, if damaged in transit.

1.4 Inspection:

- 1.4.1 **Adhesion:** The sprayed metal coating shall be subjected to an adhesion test using the method described in IRS BI-2001. If any part of the coating between the lines breaks away from the base metal, it shall be deemed to have failed the test.

1.5 Painting – General Instructions

- (i) Painting shall not be commenced till the surface preparation has been approved by the Engineer or his representative or inspecting officer.
- (ii) Sealed container of paint of approved brand shall be used. The paint drum must be rolled, turned upside down and shaken before opening. The paint must be stirred well before use. Over stirring which results in invisible air bubbles etc, shall be avoided.
- (iii) Where brush painting is accepted, the paint must be applied by means of flat brushed not more than 75mm in width having soft flexible bristles conforming to IS:384.
- (iv) Round and oval brushes of approved quality conforming to IS:487 may also be used as per the instructions of the Engineer or his representative or inspecting officer.
- (v) All new brushes should be soaked in raw linseed oil conforming to IS:77 for at least 24 hours before use.
- (vi) A little blue paint shall be added, in the first coat of aluminium paint to distinguish it from second coat. For paints of other colours for final and finishing two coats, suitable pigment shall be used as per instruction the Engineer, to distinguish the first coat from the second coat.
- (vii) The date of painting shall be marked with paint of the member.
- (viii) Each coat of paint shall be left dry till it sufficiently hardness before the subsequent coat is applied. Each coat of paint shall be inspected by the Engineer or inspecting officer and certified as satisfactory before applying subsequent coat.

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SCC-1

SPECIAL CONDITION OF THE CONTRACT

1.	<u>JOB CONTENT:</u> The quantum of Sand Blasting, Metallising and/or Painting work shall be around 3500 SQM (approx.) Metallising/Painting of 6MM IS-2062 grade E350BR plates for Ganga Bridge project as per Technical Specification.
2.	<u>DRAWINGS & SPECIFICATIONS:</u> B.B.J. reserves the right to alter / modify the design / drawing / specification to suit to their condition. If due to change in design / drawing / specification, there is any increase / decrease in items / quantities or both, payment will be made only for actual quantity of Metallising/Painting work done and certified by BBJ/ BBJ's Client / their authorised representatives.
3.	<u>DATE OF COMMENCEMENT:</u> The date of commencement will be considered the date of issue of LETTER OF INTENT (LOI)/ Work Order by BBJ.
4.	<u>DELIVERY SCHEDULE:</u>
a)	The Sub-Contractor has to start mobilizing plant, machinery, manpower including setting up of Office, Store at site in such a manner that actual metallising/painting work can be started at site from after 7 (Seven) days from the date of LOI/Order.
b)	The Blasting, metallising/painting work detailed in BOQ-1 & BOQ-2 are to be completed in all respect within a time frame of 01 (One) month including monsoon from the date of commencement as stated above. This includes the Mobilization Period.
5.	<u>MILESTONE DATES:</u> Mobilization as specified to be completed within 7 (Seven) days from the date of of LOI/order by BBJ.
6.	<u>PROGRAMME & PROGRESS:</u>
a)	Within 7 (seven) days from the receipt of LOI/Order from BBJ, the Sub-Contractor has to submit a detailed programme with deployment schedule as per required time frame and get it approved from BBJ. This approved programme will constitute the base programme.
b)	After ending of every week, the Sub-Contractor has to submit to Site-In-Charge/BBJ a detail progress report in comparison to the base programme and also the proposal to overcome the shortfall from the targeted production programme, if any.
c)	In this context, it may be noted that in case it is required to arrange additional resources to make good the backlog and adhere to time limit of base programme, the Sub-Contractor has to arrange the same without any extra cost to BBJ.
7.	<u>INSPECTION & TESTING :</u>
a)	Inspection of Metallising/Painting will be done by BBJ/ E. C. RAILWAY and/or their Authorised Representative of E. C. RAILWAY and the Sub-Contractor is required to get the Metallising/Painting work passed through BBJ/E.C. RAILWAY / their Authorised representative.
b)	The metal coating shall be checked for thickness by an approved measuring gauge.
c)	The calibration of gauge should be checked against a standard of similar thickness with an accuracy of 10 percent.
8.	<u>TECHNICAL SPECIFICATIONS:</u> - As per IRS CODE B1-2001 (LATEST ALTERATION and as per specification enclosed.
9.	<u>MEASUREMENT:</u> As will be approved by BBJ/E.C. Railway.
10.	<u>EARNEST MONEY:</u> The Earnest Money deposit of the successful bidder shall be retained towards part of the Security Deposit to facilitate the due and faithful fulfilment of the contract. The EMD of the unsuccessful tenderer will be returned after finalization of the order without any interest.

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SCC-2

SPECIAL CONDITION OF THE CONTRACT

11.	<u>SECURITY DEPOSIT:</u>
a)	An amount equal to 5% (five) of the certified bill value of each R/A bill will be retained towards Security Deposit which will be released after completion of Maintenance /Defect Liability period.
b)	The Earnest Money of the successful bidder shall be converted to initial Security Deposit.
c)	The Security Deposit deducted from the R.A. bills including initial Security Deposit may be released against submission of B.G. of equivalent amount from any Nationalized Bank after taking over the bridge by E.C. RAILWAY. The B.G. will be valid till the defect liability/ maintenance period.
12.	<u>R.A.BILLS:</u> R.A. Bills will be submitted monthly along with Inspection Certificates and other relevant Documents.
13.	<u>SUBMISSION & PAYMENT OF BILLS:</u> All the bills as mentioned above are to be submitted at Site and the payments will be made from BBJ Head Office at Kolkata.
14.	<u>PAYMENT TERMS:</u> 95% (ninety five) against RA bill within 30 days from the date of submission of clear bill duly certified by Site-In-Charge, BBJ, Ganga Bridge Site along with relevant Inspection Certificates from E.C.RLY.
15.	<u>PRICE VARIATION:</u> This is a fixed rate contract and no price variation / adjustment on any account is admissible during the tenure of the contract including extended time, if any, granted by BBJ. PRICE SHALL REMAIN FIRM FOR THE ENTIRE SCOPE OF WORK.
16.	<u>TAXES & DUTIES:</u> Sub-contractor's price should include all taxes & duties applicable for execution of the subject work. The work will be executed at Munger, Bihar. Hence, the successful bidder must get themselves registered with appropriate Commercial Tax Authorities prior to start of work. In case of non registration, BVAT will be deducted.
17.	<u>TIME EXTENSION:</u> If there is delay for reasons not attributable to the Sub-Contractor, BBJ, upon receipt of written request from the Sub-Contractor may extend the Milestone/Completion time as suitable and fit reasonable to BBJ. No extra claim (including escalation) of Sub-Contractor will be entertained in such cases of time extension being granted.
18.	<u>CLAIM/ EXTRA WORKS:</u>
a)	No claim will be tenable in case there is delay in providing services by BBJ.
b)	In case any extra works are to be carried out by the Sub-Contractor as per instructions of Site-In-Charge of BBJ, the rate of the same will be derived as follows:-
i)	From the rate of the existing similar items;
ii)	In case no similar items are available in the contract, from existing market cost followed by an overhead and profit of 10%.
iii)	However, BBJ's decision for the above will be final and binding on the Sub-Contractor in this regard.
19.	<u>PAINT RECONCILIATION:</u>
a)	The Sub-contractor must indicate in their bid, the wastage limit of paint (to be issued by BBJ) for both spray painting and brush painting.
b)	Any additional wastage over and above the allowable limit (to be decided by BBJ) will attract recovery from the Sub-contractor's RA Bill at the rate of the landed cost of the particular item of paint plus 5%.
c)	All the empty paint drums are to be returned to BBJ in good conditions.
d)	Bills should accompany with a paint-reconciliation statement.

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SCC-3

SPECIAL CONDITION OF THE CONTRACT

20.	<u>IDLE CHARGES:-</u> NO IDLE CHARGES for Labour, Plant, Establishment etc. is tenable under this contract for whatsoever the reasons be.
21.	<u>SUB-LETTING:</u> The Sub-contractor shall not sub-let any part of the job as detailed in the Scope of Work of this tender document. In case it is felt absolutely necessary, the same may be allowed subject to prior written approval from Engineer-In-Charge/BBJ.
22.	<u>LIQUIDATED DAMAGE:</u> Failure to achieve overall completion (Clause No. 4 & 18 of SCC): 0.5% (half) of the order value per week subject to a maximum of 5% (Five) of the total order value.
23	<u>DEFECT LIABILITY PERIOD:-</u> "PERIOD OF MAINTENANCE" shall mean the specified period of 12 (Twelve) months maintenance from the date of completion of the Works certified by the Engineer-In-Charge.
24.	<u>ARBITRATION:</u> In the event of any questions arising out of the contract or ancillary/incidental as to the terms and conditions of it or relate to any matter for execution and/or performance of the contract, the same shall ip-so-facto be referred to the appropriate Authority and the interpretation made by the said authority shall be final and binding upon the parties. Notwithstanding the above, should there be any, disputes or differences by and between the parties arising out of any thing under the contract, the same shall within 30 days of it's occurrence first be referred to the said authority for conciliation and/or determination by the said authority. If the findings of the said authority should be acceptable by parties to the contract as communicated in writing with in the next following 30 days of making reference to it. Nevertheless, the parties at their sole option shall with in the next following 30 days choose to refer or cause the matter to be referred to the Arbitrator of Person in writing, whereupon the appropriate Authority shall within two weeks hence take steps for appointment of Arbitrator of person from amongst the officers whether or not connected in the matter and the same shall be final and binding upon the parties. The Arbitrator shall enter into the reference by appropriate notice of communication to be served or cause the said notice to be served upon the parties summoning the respective parties to attend the proceedings at the date time and venue. The proceedings of Arbitration shall be at par with the Arbitration and Conciliation Act 1996 as amended up to date. Jurisdiction of the matter shall be with in the appropriate Courts of Kolkata. Acceptance of Order/LOI of the concerned agency shall be deemed to be the free Consent given by party under the law towards execution of these covenants of contract under the Contract of Arbitration.
25.	<u>RISK PURCHASE:-</u>
a)	<u>TERMINATION OF CONTRACT:</u> Termination of the contract owing to the default of the Sub-Contractor: - If the Sub-Contractor persistently disregard the instructions of BBJ/E. C. RAILWAY or whatever any of the providers of the contract and failed to adhere to the agreed programme by a margin of 10% (Ten) of the stipulated period or failed to deploy competent or additional staff and labourers as required by BBJ, BBJ shall be at liberty to terminate the contract in full of part as would be applicable by issuing first seven days and then 48 hours notice.
b)	In case of failure to complete the fabrication as per requirement and within the stipulated completion period, BBJ reserves the right to cancel the order, either in part or full as the situation demands and get the work done by deploying other agency / agencies. Additional cost if incurred shall be recovered from the Sub-Contractor's bill and Security Deposit.

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BOQ-1

BILL OF QUANTITIES

SL. NO.	DESCRIPTION OF WORK	UNIT	Area	UNIT RATE (Rs.)	AMOUNT (Rs.)
1	Sand blasting, Metallising and painting (4 coats i.e one coat each with wash primer, Zinc Chrome primer & two coats of Aluminium paint) of steel crash barrier and cover plate.	Sq. m.	3500		

NOTE:

- (1) Order will be issued either BOQ-1 or BOQ-2 or both, as per sole decision of BBJ and as per requirement from site.
- (2) The quoted price will be inclusive of all duties, taxes, fees and other levies, payable by the Sub-Contractor in their.
- (3) Unit Rate and amount should be properly filled both in figures and words. In the event of any difference between figure & words of the quoted rates, the rate in word shall be considered for evaluating the tender.
- (4) The area mentioned above is approximate. In the event of any reduction of area, for any reason whatsoever, the sub-contractor shall not be entitled to any compensation, but shall be paid only for the actual amount of work.

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DGM(P-V)

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BOQ-2

BILL OF QUANTITIES

SL. NO.	DESCRIPTION OF WORK	UNIT	Area	UNIT RATE (Rs.)	AMOUNT (Rs.)
1	Sand blasting and painting (4 coats i.e one coat each with Zinc Chrome primer, red oxide zinc chrome & two coats of Aluminium paint) of steel crash barrier and cover plate.	Sq. m.	3500		

NOTE:

1. Order will be issued either BOQ – 1 or BOQ – 2 or both, as per sole decision of BBJ and as per requirement from site.
2. The quoted price will be inclusive of all duties, taxes, fees and other levies, payable by the Sub-Contractor in their.
3. Unit Rate and amount should be properly filled both in figures and words. In the event of any difference between figure & words of the quoted rates, the rate in word shall be considered for evaluating the tender.
4. The area mentioned above is approximate. In the event of any reduction of area, for any reason whatsoever, the sub-contractor shall not be entitled to any compensation, but shall be paid only for the actual amount of work.

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(A Government of India Undertaking)

27, RAJENDRA NATH MUKHERJEE ROAD, KOLKATA- 700 001

Ph: (033) 2248 5841-44; Fax: (033) 2210-3961; WEB SITE: www.bbjconst.com;

Email: info@bbjconst.com; bbj@india.com;

TENDERER

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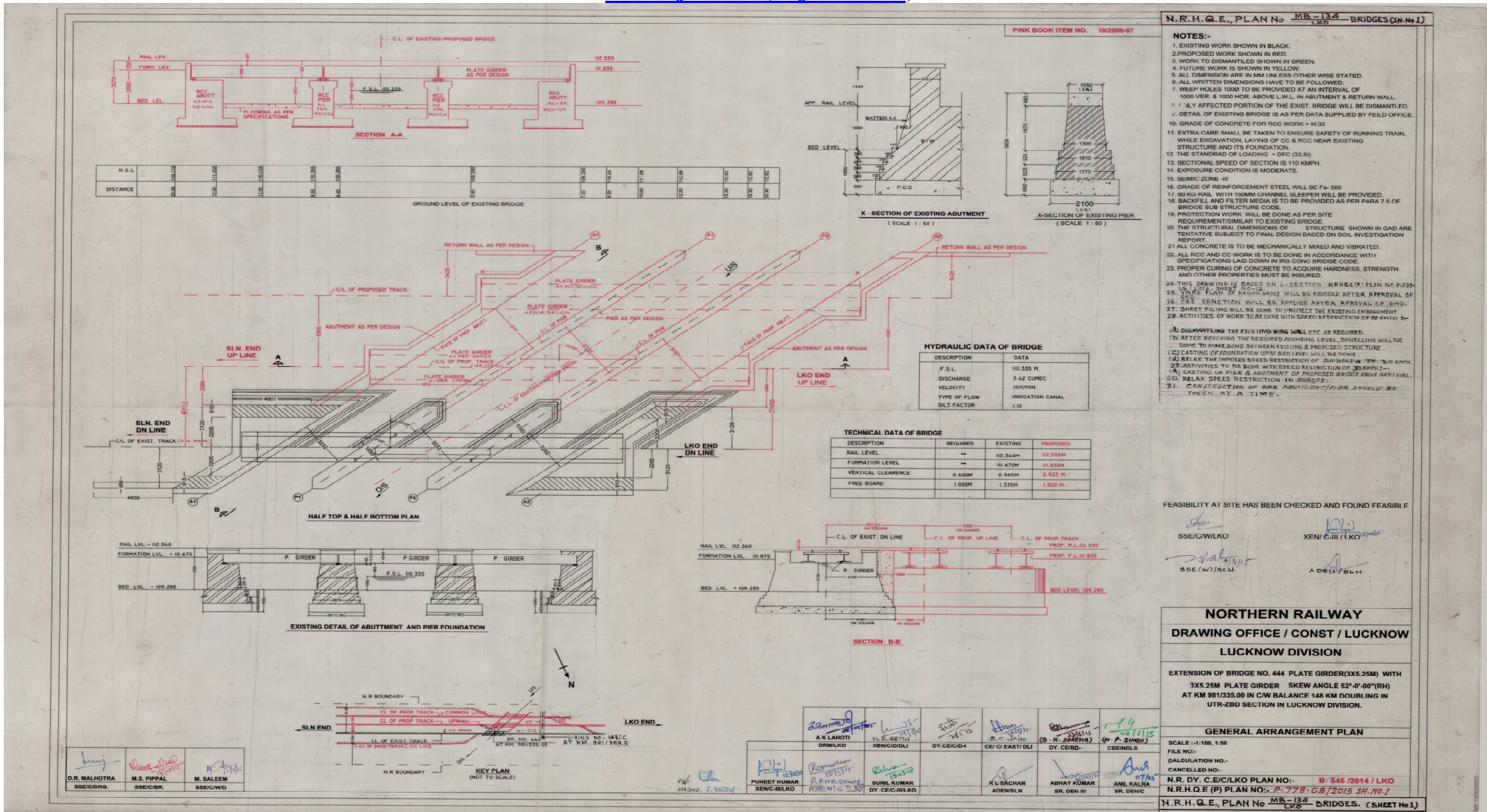
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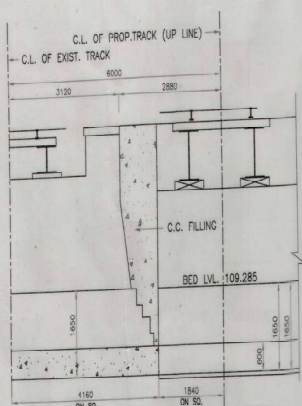


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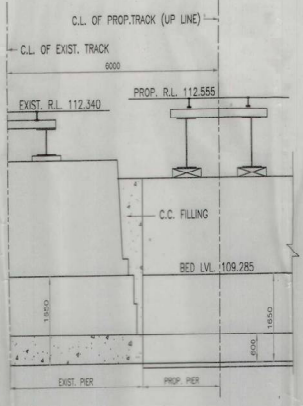
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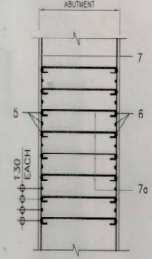
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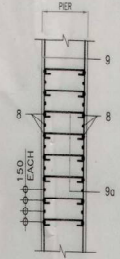
SECTION B-B



SECTION C-C



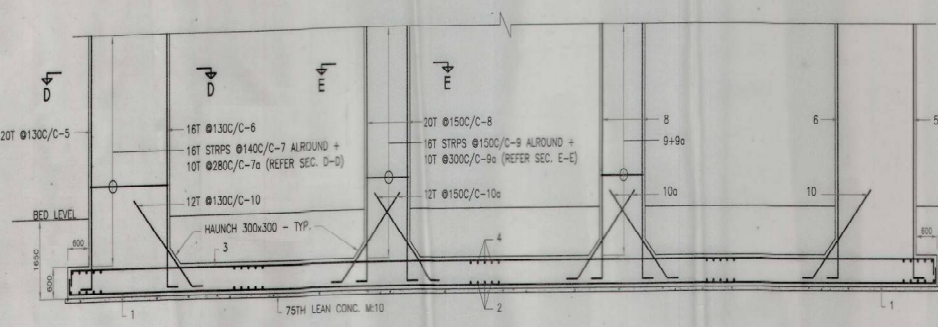
SECTION D-D



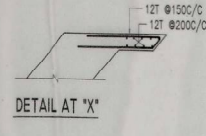
SECTION E-E

NOTES :-

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METRES.
2. THIS DRG. IS TO BE READ IN CONJUNCTION WITH APPROVED GAD OF THIS BRIDGE PLAN.
3. ALL CONC. IS TO BE MECHANICALLY MIXED AND VIBERATED.
4. ALL RCC AND CC WORK IS TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS LAID DOWN IN I.R.S. CONC. BR. CODE.
5. PROPER CURING OF CONC. TO ACQUIRE HARDNESS, STRENGTH & OTHER PROPERTIES MUST BE ENSURED.
6. PARTICULAR CARE MUST BE TAKEN TO ENSURE THAT :-
 - a) NO SAG OCCURS IN REINF. DURING EXECUTION OF WORK.
 - b) CLEAR COVER TO REINF. MUST BE MAINTAINED.
 - c) LENGTH OF SPLICE WHERE BARS OBTAINED ARE OF SHORTER LENGTH MUST NOT BE LESS THAN DEVELOPMENT LENGTH (50d).
7. TMT/TOR STEEL TO CONFORM I.S.1786 LATEST (Fe-500)
10. BARS AT TOP/NEAR FACE SHOWN THUS. ———
11. BARS AT BOTTOM/FAR FACE SHOWN THUS. ———
12. MAXIMUM FOUNDATION PRESSURE = 12 T/sqm.

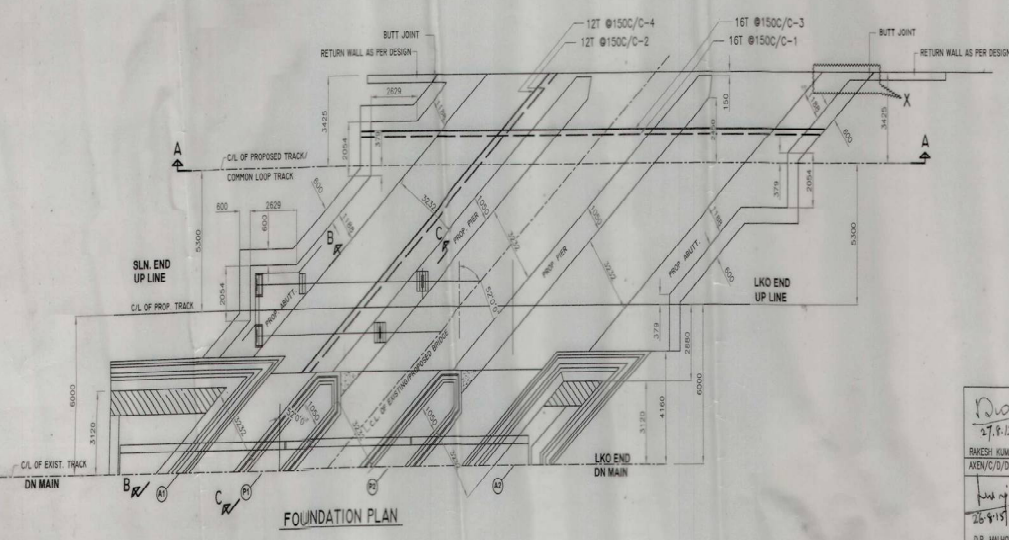


SECTION A-A



DETAIL AT 'X'

C.C. MIX. = M:35
 CLEAR COVER = 50 MM



FOUNDATION PLAN

SN.	DATE	DESCRIPTION	SIGN.
REVISIONS			

NORTHERN RAILWAY
 DRAWING OFFICE PLANNING
 CAO/C OFFICE, K GATE, DELHI.

PROJECT:-
LUCKNOW DIVISION
 EXTENSION OF BRIDGE NO. 444 PLATE GIRDER (3X5.25M) WITH
 3X5.25M PLATE GIRDER SKEW ANGLE 52°-0'-00"(RH)
 AT KM 081/335.00 IN CW BALANCE 148 KM DOUBLING IN
 UTR 2BD SECTION IN LUCKNOW DIVISION.

RCC DETAIL OF FOUNDATION, PIER AND ABUTMENT		
SCALE = 1:100, 1:50	CASE NO. = 101-W/86/W SPL/PLAN/PL-1	
CALCULATION NO. =		
NRHQE(P) PLAN NO. = P-778-GB/2015/SH-NO.2		

TENDERER

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