



# भारत हेवी इलेक्ट्रिकल्स लिमिटेड

( भारत सरकार का उपक्रम )

## BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 04

Ref: PSER:SCT:KLN-C1852:TCN-04

Date: 16-10-2017

Sub	TCN-04
Job	Package-3: Civil, Structural And Architectural Works for Plant road & drain for 2x660 MW Maitree STPP, Rampal, Bangladesh.
Ref	1.0 Tender no PSER:SCT:KLN-C1852:17.
	2.0 BHEL's NIT, vide reference no PSER:SCT:KLN-C1852:6088 Date:19-09-2017.
	3.0 BHEL's TCN-01, vide reference PSER:SCT:KLN-C1852:TCN-01, dated 04-10-2017.
	4.0 BHEL's TCN-02, vide reference PSER:SCT:KLN-C1852:TCN-02, dated 06-10-2017.
	5.0 BHEL's TCN-03, vide reference PSER:SCT:KLN-C1852:TCN-03, dated 12-10-2017.
	6.0 All other pertinent issues till date.

With reference to above, following points/ documents, relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 Revised Price Schedule, VOLUME-III-R-02 attached superseding PRICE SCHEDULE VOLUME-III-R-01 issued earlier along with TCN-01. Bidder shall quote as per this revised Volume-III, Rev-02 only. Bidders are also requested to submit a declaration in techno - commercial offer that they have submitted their price bid as per **REVISED price schedule** format (**VOLUME-III- PRICE SCHEDULE, REV-02**).
- 2.0 The clarifications to bidders queries are attached at Annexure-A.
- 3.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 4.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,  
for BHARAT HEAVY ELECTRICALS LTD

SR ENGR (SCT)

Encl : As above.

पावर सेक्टर पूर्वी क्षेत्र ( मुख्यालय )

POWER SECTOR EASTERN REGION, DJ-9/1, SECTOR-II, SALT LAKE CITY, KOLKATA - 700 091

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<b>VOLUME-III PRICE SCHEDULE, REV-02</b>	
<b>PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD &amp; DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.</b>	
<b>TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17</b>	
<b>PREAMBLE</b>	
1	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully before filling in rates for various items. Clauses under this preamble shall be read in conjunction with various volumes of tender and other tender sections as applicable and shall have precedence over any contrary statement mentioned any where in this document.
2	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclosed with the tender are only preliminary and for tender purposes and giving some idea of the work involved. The work is to be executed as per drawings & documents, which shall be furnished during execution.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc. equipment, strengthening of roads/culverts/bridges etc. including arranging all clearances etc. required for carrying out different activities & tests, materials, levies, taxes(except service tax), transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the complete tender document and this schedule.
5	The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of work executed under any part of this contract including extra items, if any but excluding any price variation remains, within fifteen percent ( $\pm 15\%$ ) of the awarded price as per LOI .
6	Construction of Temporary Roads and Drain at 2x660MW Maitree Rampal Project
7	In case Sealed /Paper Price Bids are opened for finalisation of the tender, for any Item Rate/BOQ based contract, possibility of variation of quantity/ addition/deletion of items can not be ruled out. Under such circumstances, after execution of work, if it is observed that standing as L-1 is changed based on actual quantity executed, the bidder shall give suitable rebate to maintain your standing as L-1. Since this aspect can be assessed at the end of execution, necessary adjustment will be effected at the end of execution in final bill.This condition shall not be applicable where the tender is finalised through Reverse Auction.
8	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and/ or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
9	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing , clearing of old structures and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same.However, if separate rate for such item is available in the rate schedule, the same shall be considered.
10	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English language.
11	All works item wise shall be measured upon completion and paid for at the rates quoted and accepted as per BHEL approved payment schedule/billing break-up.
12	The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
13	No splitting of the job is envisaged. Decision of BHEL in this regard shall be final and binding to the bidders.
14	Bidders are not allowed to alter the Price Schedule format including item description,quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them.BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/alterd by them. Also putting any comments instead of rates/price in the designated column of the rate schedule shall make the offer liable for rejection.

<b>VOLUME-III</b>	
<b>PRICE SCHEDULE, REV-02</b>	
<b>PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD &amp; DRAIN AT 2X660 MW</b>	
<b>MAITREE RAMPAL PROJECT, BANGLADESH.</b>	
<b>TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17</b>	
<b>PREAMBLE</b>	
15	Bidders to note that for Civil &/Structural packages, against a particular item against a ST No. appearing in more than one schedule of the BOQ, same rate must be quoted in all schedules for that particular items with same descriptions. If by error, different rates are quoted in different schedules for same ST No.(i.e. item with same description), then the higher of the rates shall be considered for evaluation but awarding shall be done with the lower rate ,if the bidder becomes L-1.”
16	For Lumpsum Service Contract : The items/components indicated in the tender is indicative and may vary to any extent. No compensation shall be payable in case of any variation in the items/components listed in the bill of quantities if the executed weight remains within the variation limit. However, in case of deletion of any item or addition of new items over and above the items listed or variation of existing quantity beyond variation limit specified, adjustment (i.e. Payment or recovery as the case may be ) shall be done on pro-rata basis based on the Rate per MT worked out from the quoted lump-sum Price and the total weight of components listed /indicated in price schedule plus 15% weight variation limit.
17	Engineer’s decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
18	In case of tender for Civil and/or Structural works, if the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/DSR schedule as prescribed in the tender/BOQ cum Rate Schedule.
19	No interest, whatsoever, shall be payable by BHEL on the security deposit, any bank guarantee submitted or any amount due to successful bidder/contractor.
20	Size and weights of various items are mentioned in the attached BOQ cum rate/price schedule for reference purpose only & these shall not be taken into consideration for quoting/calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items.
21	Bidder’s Total price will be shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight chages against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoted price against each item keeping the total quoted price unaltered.

**VOLUME-III  
PRICE SCHEDULE, REV-02**

**PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW  
MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17**

**SCH-1 : TOTAL PRICE**

SL NO	DESCRIPTION	TOTAL QUOTED PRICE (IN USD)
1.0	PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.	<b><u>IN FIGURES:-</u></b>
		<b><u>IN WORDS:-</u></b>
2.0	<b>NON-SCHEDULE ITEM</b> <b>Quote % above or % below for items not covered as above of this schedule. The rate shall be derived from Schedule of Rates 2014, PWD, Govt. of Bangladesh</b>	
1a)	Rate of complete item	_____ % above/ _____ % below / At per of BPWD Rate Schedule 2014
1b)	Rate of supply of material at site only	_____ % above/ _____ % below / At per of BPWD Rate Schedule 2014
1c)	Rate for execution complete excluding supply of materials.	_____ % above/ _____ % below / At per of BPWD Rate Schedule 2014

**NOTE**

1.0	Bidder shall quote total price for total price of SCH-1- Part only at sl no 1 above. All other amounts/ rates of each item of works in respective schedules/ parts will be derived based on allocated percentages. As such, any uncalled figure/ amount noted at any other place/ schedule of Volume-III will not be recknoed & will stand null & void.
2.0	Bidder to note that total price at sl no 1.0 above shall be considered for evaluation & awarding. As such grand total price should be complete in all respect for the full scope defined and considering all terms and conditions.
3.0	Bidder's quoted total price of SCH-1at Sl. no 1 above shall be apportioned into amount of various items of works based on allocated percentages against respective item of SCH-3 & 4. As such, bidder shall not indicate/ quote any amount/ rate in these schedules/ parts and any amount/ rate quoted against any item shall not be taken into cognizance/ account and offer may be liable for rejection.
4.0	Based on the itemwise percentage allocations, the amount for the individual items of the Bill of Quantity shall be arrived at. The rates of individual items shall be derived from the amount against each items after rounding off .
5.0	Unit rates of each item of works of respective schedules/ parts will be derived by dividing derived amount by corresponding quantities. In deriving the unit rates of each item in this manner, figures only upto <b>2</b> decimal places will be taken into account. Any adjustment, if required, due to such methodology, will be effected in final bill.
6.0	Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per SI No.5 above.
7.0	Any item as per scope of work, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.
8.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.
9.0	The quantity of items may vary during execution mainly due to actual requirement etc. The unit rates work out from the overall amount quoted & accepted by BHEL shall be considered and no separate unit rates shall be allowed. Unit rates shall be valid throughout the contract period.
14.0	For payment of non schedule items, the rate shall be derived from Schedule of Rates 2014, PWD, Govt. of Bangladesh.

**VOLUME-III  
PRICE SCHEDULE, REV-02**

**PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17**

**SCH-2 : BREAK UP OF TOTAL PRICE SCHEDULE**

<b>SL NO</b>	<b>DESCRIPTION</b>	<u>PRICE SCHEDULE REF</u>	<b>WEIGHTAGE ( Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1</b>
<b>1.0</b>	GROUND IMPROVEMENT WITH DYNAMIC COMPACTION	<b>SCH 3 -GROUND IMPROVEMENT</b>	<b>28.4846140%</b>
<b>2.0</b>	CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN.	<b>SCH 4 -PLANT ROAD &amp; DRAIN</b>	<b>71.5153860%</b>
	<b>TOTAL ALLOCATION</b>		<b>100.000000%</b>

<b>VOLUME-III PRICE SCHEDULE, REV-02</b>				
<b>PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD &amp; DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.</b>				
<b>TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17</b>				
<b>SCH-3 : TOTAL PRICE BREAK UP FOR GROUND IMPROVEMENT WORK</b>				
<b>ST. NO</b>	<b>DESCRIPTION OF ITEM</b>	<b>UNIT</b>	<b>Quantity</b>	<b>ALLOTTED PERCENTAGE FOR AMOUNT OF EACH ITEM( Nearest to the 6 decimal points) W.R.T THE TOTAL OF QUOTED PRICE IN SCH-1</b>
1	Design and execution of ground improvement with dynamic compaction on engineering and execution basis for the specified area (s) so as to achieve at least 80% of relative density for the top existing dredged sand fill (about 6m thick layer) including preparation of drawings and getting it approved, conducting field trials for validation of design, providing necessary equipments, labours, plants & tools, machineries, quality testing/quality control etc all complete as required/as per specification and as directed by engineer-in-charge.	SQM	214875	28.4048770%
2	Excavating trial pit of size 3m x 3m at various locations up to a maximum depth of 3m below ground level for conducting plate load test in all types of soil which can be excavated with pick axe/crow bar etc including sheeting or shoring the sides for the purpose of stability, dewatering and maintaining the pit dry at all times and backfilling of the pit with excavated material etc all complete as per specification and as directed by the engineer-in-charge.	CUM	230	0.0066580%
3	Conducting plate load test at specified depth using 600mmx600mmx25mm mild steel plate as per ASTM 1195 and submission of approved test report etc as per specification, drawing and as directed by the engineer-in-charge. The rate shall include mobilization of necessary testing equipments etc to the project site and demobilization of the same after completion of tests.	EACH	9	0.0730790%
<b>TOTAL ALLOTTED PERCENTAGE</b>				<b>28.4846140%</b>

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PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.

TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17

SCH-4 : TOTAL PRICE BREAK UP FOR CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	ALLOTTED PERCENTAGE FOR AMOUNT OF EACH ITEM( Nearest to the 6 decimal points) W.R.T THE TOTAL OF QUOTED PRICE IN SCH-1
	<b>100 EARTH WORK</b>			
	<b>Earth work In excavation, backfilling and disposal including necessary men/women, materials, equipment, loading, transportation, unloading, dewatering etc as per specification, drawing, relevant laws of Bangladesh, relevant BS (or equivalent international standard) Standards approved by BIFPCL/BHEL and as directed by engineer- in-charge for the following.</b>			
A101	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, levelling, dewatering (but excluding special type of dewatering viz. well point method), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 1 km, spreading/levelling of disposed materials etc all complete for following depths below ground level.			
a	Depth from ground level but not exceeding 2 m	CUM	78033	0.8542680%
b	Depth exceeding 2 m but not exceeding 4 m	CUM	6955	0.0955980%
A102	Extra over ST No. 101 for dewatering of ground water by well point method as per relevant Bangladesh/BS Standards/Specifications or Equivalent International standards approved by BIFPCL/BHEL.	CUM	10500	0.0660060%
A107	Earthwork in back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with selected approved materials from compulsorily excavated earth available within a lead upto 1 Km and compacted as specified including re-excavation of stacked earth, watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.			
a	Each layer compacted so as to achieve at least 98% maximum dry density as per ASTM D-1557.	CUM	4360	0.0600880%
e	Each layer compacted so as to achieve at least 85% relative density as per ASTM D-4253 & ASTM D-4254	CUM	43280	0.6506970%
A108	Earthwork in Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with selected earth directly from excavation within a lead upto 1 Km and compacted as specified including watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.			
a	Each layer compacted so as to achieve at least 98% maximum dry density as per ASTM D-1557.	CUM	1010	0.0071620%
e	Each layer compacted so as to achieve at least 85% relative density as per ASTM D-4253 & ASTM D-4254	CUM	9020	0.0697810%
A109	Extra over ST No. 101, 103 to 108 and 2401 for carriage of material/earth for every 500 m or part thereof beyond an initial lead of 1 Km.	CUM	70835	0.0775470%
<b>A 200</b>	<b>CONCRETE WORKS (EXCEPT ROAD WORKS)</b>			
	<b>Providing and placing concrete work including cost of labour, materials (unless otherwise specified in BOQ/contract specification) and equipment for handling, transportation, batching, mixing, placing, vibrating and curing, cleaning and rendering the exposed surface with cement sand mortar to give a smooth and even surface (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like batching plant, transit mixer, concrete pump etc, preparation of scheme for concreting, getting it approved by engineer, maintaining and submitting records of concreting, complete as per drawing, specifications, relevant laws of Bangladesh, manufacturer's recommendation, relevant BS standards/equivalent international standards and as approved by BIFPCL/BHEL and as per direction of engineer in charge for the following. [Type – cement as per ASTM C150-16 with C3A content limited to 5 to 8 % shall be used. Supply of cement is in the scope of contractor. No separate payment shall be given for supply of cement to the contractor]</b>			
A201	Concrete of grade C8/10 as per BS EN-206 and BS 8500 or equivalent international standard (with 40 mm graded aggregate) as mass filling course, lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	102	0.0893940%
AA201	Concrete of grade C8/10 as per BS EN-206 and BS 8500 or equivalent international standard (with well graded picked jhama brick chips conforming to ASTM C33 including breaking chips and screening) as mass filling course, lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	237	0.1992880%
A204	Concrete under floors, paving, plinth protection, pipe encasing etc complete with 20 mm nominal size graded aggregate at any depth below finished floor level for the following grades.			
b	Grade C16/20 as per BS EN-206 and BS 8500 or equivalent international standard	CUM	175	0.1902830%
A205	Providing and laying Design Mix cement concrete conforming to BS EN-206 and BS 8500 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors etc at any level below finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete all complete as per specification & drawing for the following.			
b	Grade C25/30	CUM	1081	1.3388510%
c	Grade C30/37	CUM	337	0.4291080%

**VOLUME-III  
PRICE SCHEDULE, REV-02**

**PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17**

**SCH-4 : TOTAL PRICE BREAK UP FOR CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN**

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	ALLOTTED PERCENTAGE FOR AMOUNT OF EACH ITEM( Nearest to the 6 decimal points) W.R.T THE TOTAL OF QUOTED PRICE IN SCH-1
A213	Providing and laying Design Mix cement concrete as per BS 8500 and BS EN 206 or equivalent International code for reinforced concrete works using graded aggregate for Concrete in precast works like roof slabs/trench covers, fins, lintels, chajas, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate and as per specification and drawing for following grades.			
b	C 40/50 grade	CUM	61	0.0946460%
<b>B 200</b>	<b>CONCRETE WORKS (EXCEPT ROAD WORKS)</b>			
	<b>Providing and placing concrete work including cost of labour, materials (unless otherwise specified in BOQ/contract specification) and equipment for handling, transportation, batching, mixing, placing, vibrating and curing, cleaning and rendering the exposed surface with cement sand mortar to give a smooth and even surface (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like batching plant, transit mixer, concrete pump etc, preparation of scheme for concreting, getting it approved by engineer, maintaining and submitting records of concreting. complete as per drawing, specifications, relevant laws of Bangladesh, manufacturer's recommendation, relevant BS standards/equivalent international standards and as approved by BIFPCL/BHEL and as per direction of engineer in charge for the following.<span style="color: red;">[The cement shall be Supplied by BHEL as free of cost]</span></b>			
B201	Concrete of grade C8/10 as per BS EN-206 and BS 8500 or equivalent international standard (with 40 mm graded aggregate) as mass filling course, lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	102	0.0738180%
BB201	Concrete of grade C8/10 as per BS EN-206 and BS 8500 or equivalent international standard (with well graded picked jhama brick chips conforming to ASTM C33 including breaking chips and screening) as mass filling course, lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	237	0.1493750%
B204	Concrete under floors, paving, plinth protection, pipe encasing etc complete with 20 mm nominal size graded aggregate at any depth below finished floor level for the following grades.			
b	Grade C16/20 as per BS EN-206 and BS 8500 or equivalent international standard	CUM	175	0.1316490%
B205	Providing and laying Design Mix cement concrete conforming to BS EN-206 and BS 8500 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors etc at any level below finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete all complete as per specification & drawing for the following.			
b	Grade C25/30	CUM	1081	0.9145660%
c	Grade C30/37	CUM	337	0.2936120%
B213	Providing and laying Design Mix cement concrete as per BS 8500 and BS EN 206 or equivalent International code for reinforced concrete works using graded aggregate for Concrete in precast works like roof slabs/trench covers, fins, lintels, chajas, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate and as per specification and drawing for following grades.			
b	C 40/50 grade	CUM	61	0.0672000%
<b>C 200</b>	<b>CONCRETE WORKS (EXCEPT ROAD WORKS)</b>			
	<b>Placing of concrete work including cost of labour, materials (unless otherwise specified in BOQ/contract specification) and equipment for handling, transportation, placing, vibrating and curing, cleaning and rendering the exposed surface with cement sand mortar to give a smooth and even surface (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like transit mixer, concrete pump etc, preparation of scheme for concreting, getting it approved by engineer, maintaining and submitting records of concreting. complete as per drawing, specifications, relevant laws of Bangladesh, manufacturer's recommendation, relevant BS standards/equivalent international standards and as approved by BIFPCL/BHEL and as per direction of engineer in charge for the following.<span style="color: red;">(RMC SHALL BE PROVIDED BY BHEL AT BATCHING PLANT IN PROJECT PREMISES . TRANSPORTATION FROM THE BATCHING PLANT UP TO THE POURING POINT SHALL BE UNDER THE SCOPE OF CONTRACTOR)</span></b>			
C201	Concrete of grade C8/10 as per BS EN-206 and BS 8500 or equivalent international standard (with 40 mm graded aggregate) as mass filling course, lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	713	0.1714700%



**VOLUME-III  
PRICE SCHEDULE, REV-02**

PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.

TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17

**SCH-4 : TOTAL PRICE BREAK UP FOR CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN**

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	ALLOTTED PERCENTAGE FOR AMOUNT OF EACH ITEM( Nearest to the 6 decimal points) W.R.T THE TOTAL OF QUOTED PRICE IN SCH-1
CC201	Concrete of grade C8/10 as per BS EN-206 and BS 8500 or equivalent international standard (with well graded picked jhama brick chips conforming to ASTM C33 including breaking chips and screening) as mass filling course, lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	1656	0.3584280%
C204	Concrete under floors, paving, plinth protection, pipe encasing etc complete with 20 mm nominal size graded aggregate at any depth below finished floor level for the following grades.			
b	Grade C16/20 as per BS EN-206 and BS 8500 or equivalent international standard	CUM	1225	0.3428520%
C205	Laying Design Mix cement concrete conforming to BS EN-206 and BS 8500 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors etc at any level below finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete all complete as per specification & drawing for the following.			
b	Grade C25/30	CUM	7567	2.4123440%
c	Grade C30/37	CUM	2359	0.7731670%
C213	Laying Design Mix cement concrete as per BS 8500 and BS EN 206 or equivalent International code for reinforced concrete works using graded aggregate for Concrete in precast works like roof slabs/trench covers, fins, lintels, chajjas, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate and as per specification and drawing for following grades.			
b	C 40/50 grade	CUM	425	0.1697340%
<b>D 200</b>	<b>CONCRETE WORKS (EXCEPT ROAD WORKS)</b>			
	<b>Placing concrete work including cost of labour, materials and equipment for handling, placing, vibrating, shuttering, formwork and curing (excluding cost of reinforcement), with mechanised equipments like concrete pump etc. complete as per drawing, specification and as per direction of engineer in charge for the following. (RMC SHALL BE PROVIDED BY BHEL AT POURING POINT BUT DEVELOPMENT OF ACCESS ROAD FROM NEAREST SITE ROAD TO POURING POINT IS UNDER THE SCOPE OF CONTRACTOR)</b>			
D201	Concrete of grade C8/10 as per BS EN-206 and BS 8500 or equivalent international standard (with 40 mm graded aggregate) as mass filling course, lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	102	0.0190600%
DD201	Concrete of grade C8/10 as per BS EN-206 and BS 8500 or equivalent international standard (with well graded picked jhama brick chips conforming to ASTM C33 including breaking chips and screening) as mass filling course, lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	237	0.0398580%
D204	Concrete under floors, paving, plinth protection, pipe encasing etc complete with 20 mm nominal size graded aggregate at any depth below finished floor level for the following grades.			
b	Grade C16/20 as per BS EN-206 and BS 8500 or equivalent international standard	CUM	175	0.0380570%
D205	Providing and laying Design Mix cement concrete conforming to BS EN-206 and BS 8500 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors etc at any level below finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete all complete as per specification & drawing for the following.			
b	Grade C25/30	CUM	1081	0.2677700%
c	Grade C30/37	CUM	337	0.0858220%
D213	Laying Design Mix cement concrete as per BS 8500 and BS EN 206 or equivalent International code for reinforced concrete works using graded aggregate for Concrete in precast works like roof slabs/trench covers, fins, lintels, chajjas, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate and as per specification and drawing for following grades.			
b	C 40/50 grade	CUM	61	0.0189290%
	<b>MISC. CONCRETE RELATED WORKS</b>			
215	Dismantling concrete work for all types of structures at all levels including stacking of servicable material to a lead of 500 m and disposal of unservicable material upto a lead of 2 km, cutting of reinforcement, labour, equipment, safety precautions etc all complete as per drawings, specification and instructions of engineer in charge.			
a	Plain cement concrete of all grades	CUM	55	0.0078540%
b	Reinforced cement concrete of all grades	CUM	110	0.0239240%
216	Chipping of concrete in reinforced concrete work, cutting pockets, making openings at all levels and according to shapes, disposal of waste materials upto a lead of 2 km as directed by engineer including equipment, safety precautions, making good the broken surface etc all complete as per specification, drawing, instructions of engineer in charge but excluding cutting of reinforcement .	CUDM	32	0.0002180%

**VOLUME-III  
PRICE SCHEDULE, REV-02**

**PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17**

**SCH-4 : TOTAL PRICE BREAK UP FOR CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN**

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	ALLOTTED PERCENTAGE FOR AMOUNT OF EACH ITEM( Nearest to the 6 decimal points) W.R.T THE TOTAL OF QUOTED PRICE IN SCH-1
217	Extra over and above St No 216 for <b>cutting of reinforcement</b> , all sizes and types including labour, equipment, return of cut reinforcement to store etc all complete as per specification, drawings and instructions of engineer in charge. Measurement shall be on the cross sectional area of reinforcement cut.	SQCM	152	0.0000920%
218	Cutting Reinforced concrete with mechanised tools like Core drilling machine etc. for cutting pockets, holes, cores in slab, beam, column or foundation as per direction of engineer in charge.	CUDM	32	0.0010390%
	<b>300 FORM WORKS</b>			
	<b>Providing, fixing and removing formwork at any elevations for all structures, as per specifications and including all labour, material, scaffoldings and centering complete including pockets etc. complete as per drawing, specifications, relevant laws of Bangladesh, relevant BS Standards or Equivalent International standards approved by BIFPCL/BHEL and as per direction of engineer in charge for the following.</b>			
A301	<b>Fairface form work</b> with good quality water proof ply wood (Plywood lining for form shall be of timber, which is resin bonded and water repellant) of minimum 12 mm thickness and smooth surface <b>below finished ground floor level</b> for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc including providing 25mmx25mm chamfer at all exterior corners.	SQM	92050	6.7987480%
A304	Providing, fixing and removing <b>formwork in block-outs/pockets</b> and openings (below 0.1 sqm plan area) at all elevations including cutting, formation of all shapes and all other operations required for making the required shape and size all complete as per specification, drawing and instruction of engineer in charge.			
a	Upto 150 mm depth	Each	2000	0.0695780%
b	Pockets of depths more than 150mm and upto 300 mm depth	Each	650	0.0411140%
	<b>400 REINFORCEMENT</b>			
	<b>Reinforcement work including all labour, material (unless otherwise specified in BOQ/contract specification), equipment, transportation, handling etc at all level as per specification, relevant laws of Bangladesh, relevant BS Standards or Equivalent International standards approved by BIFPCL/BHEL drawings and as directed by engineer - in - charge for the following</b>			
402	Providing, straightening, cutting, bending, placing in position at any level, binding in position <b>of steel reinforcements of grade B500B</b> confirming to <b>BS 4449:2005+A:2009</b> including cost of reinforcement steel, binding wire, labour, scaffolding, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer. <b>(REINFORCEMENT SHALL BE PROVIDED BY BHEL FREE OF COST AS PER TCC)</b>	MT	1517	1.5136720%
	<b>500 WATER PROOFING WORKS</b>			
	<b>Water proofing works including all labour, material, (unless otherwise specified in BOQ/contract specification) equipment, transportation, handling, curing, sampling, testing etc at any level as per specification, drawings, relevant laws of Bangladesh, relevant BS Standards or Equivalent International standards approved by BIFPCL/BHEL and as directed by engineer - in - charge.</b>			
A509	<b>Providing and applying two coats of bitumen of suitable grade</b> as per relevant BS or equivalent international code @ 1.7kg/sqm with 1% antistripping compound in foundation, wall, column etc on concrete surfaces exposed to soil / ash including surface preparation etc. all complete.	SQM	48341	1.6464440%
	<b>700 MS EMBEDMENTS</b>			
	<b>Embedments including all labour, material (unless otherwise specified in BOQ/specification), equipment, transportation, handling etc. at any level as per specification, drawings, relevant laws of Bangladesh, relevant BS Standards or Equivalent International standards approved by BIFPCL/BHEL and as directed by engineer - in - charge.</b>			
701	Supply, fabricating and fixing of mild steel embedments, inserts, pipe sleeves, angle pieces, rungs of various diameters, plates of dimensions as required etc. including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete.	MT	44	0.4896280%
702	Supply, Fabrication, transportation, delivery at site and erection, installation and alignment of mild steel foundation bolt assembly conforming to relevant BS or equivalent international code in concrete along with nuts, lock nuts (as per relevant BS or equivalent international code), washers, anchor plates, stiffner plates, protective tape, pipe sleeves, templates etc. including welding, cutting, grinding, threading, drilling etc. all complete.	MT	14	0.1870090%
703	Same as above items 701 & 702 with BHEL supplied material free of cost including loading, transportation, unloading etc. all complete from BHEL store to plant site.			
a	Mild steel embedments, inserts, pipe sleeves, angle pieces, rungs of various diameters, plates of dimensions as required etc.	MT	14	0.0299210%
b	Mild steel foundation bolt assembly conforming to relevant BS or equivalent international code in concrete along with nuts, lock nuts (as per relevant BS or equivalent international code), washers, anchor plates, stiffner plates, protective tape, pipe sleeves, templates etc.	MT	9	0.0185430%
1815	Providing and fixing <b>GI rungs</b> in concrete/brick walls having zinc coating of <b>minimum 900 g/sqm</b> etc. all complete.	Kg	1900	0.0214940%
2208A	Providing, laying circular <b>RCC pipes</b> for use in trench construction conforming to BS 5911 or equivalent international code with collars jointed with stiff mixture of cement mortar including testing of joints etc. all complete for following.			
a	225mm dia	RM	725	0.1302190%
b	300mm dia	RM	620	0.1432910%
c	450mm dia	RM	525	0.1692300%

**VOLUME-III  
PRICE SCHEDULE, REV-02**

**PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17**

**SCH-4 : TOTAL PRICE BREAK UP FOR CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN**

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	ALLOTTED PERCENTAGE FOR AMOUNT OF EACH ITEM( Nearest to the 6 decimal points) W.R.T THE TOTAL OF QUOTED PRICE IN SCH-1
b	600mm dia	RM	475	0.2236030%
e	900mm dia	RM	700	0.5635910%
<b>2300 STRUCTURAL STEEL</b>				
<b>Structural steel works including all labour, material (unless otherwise specified in BOQ/specification), equipments, transportation, handling etc. at any level as per relevant laws of Bangladesh, relevant BS Standards or Equivalent International standards approved by BIFPCL/BHEL, specification, drawings and as directed by engineer - in - charge.</b>				
2307	Supplying, fabrication, erection and alignment of factory made <b>electroforged galvanised grating units</b> with mild steel (having minimum galvanisation of 610 g/sqm) conforming to relevant BS code or equivalent international code in flooring, platforms, drain and trench covers, walk-ways, passages, staircases with edge binding strips and anti-skid nosing in treads etc. including fixing clamps, fittings, fixtures, all taxes, duties, packing, grinding, drilling, welding, edge preparation, etc. all complete.	MT	5	0.0676980%
2307B	Erection and alignment of factory made <b>electroforged galvanised grating units</b> with mild steel (having minimum galvanisation of 610 g/sqm) conforming to relevant BS code or equivalent international code in flooring, platforms, drain and trench covers, walk-ways, passages, staircases with edge binding strips and anti-skid nosing in treads etc. including fixing clamps, fittings, fixtures, all taxes, duties, packing, grinding, drilling, welding, edge preparation, etc. all complete.	MT	10	0.0270790%
2307A	Supplying, fabrication, erection and alignment of factory made <b>electroforged galvanised grating units</b> with mild steel (having minimum galvanisation of 900 g/sqm) conforming to relevant BS code or equivalent international code in flooring, platforms, drain and trench covers, walk-ways, passages, staircases with edge binding strips and anti-skid nosing in treads etc. including fixing clamps, fittings, fixtures, all taxes, duties, packing, grinding, drilling, welding, edge preparation, etc. all complete.	MT	5	0.1001250%
2307AB	Erection and alignment of factory made <b>electroforged galvanised grating units</b> with mild steel (having minimum galvanisation of 900 g/sqm) conforming to relevant BS code or equivalent international code in flooring, platforms, drain and trench covers, walk-ways, passages, staircases with edge binding strips and anti-skid nosing in treads etc. including fixing clamps, fittings, fixtures, all taxes, duties, packing, grinding, drilling, welding, edge preparation, etc. all complete.	MT	15	0.0600750%
2309A	Providing and applying one coat of <b>Epoxy high solid finish paint</b> over galvanized surfaces (galvanization to be paid separately) with minimum 125 micron total dry film thickness (DFT) of approved make and shade to achieve an even shade all complete as per specification.	MT	14	0.0037810%
2309B	Providing and applying one coat of <b>Epoxy high solid intermediate paint</b> over galvanized surfaces (galvanization to be paid separately) with minimum 125 micron total dry film thickness (DFT) and 1 coat of <b>2-Comp. polyurethane finish paint</b> with minimum 50 micron total dry film thickness (DFT) of approved make and shade to achieve an even shade all complete as per specification.	MT	15	0.0060760%
2320	Supply, fabrication and fixing of <b>GI pipe hand railing</b> of 32 mm/40 mm dia (Medium Grade) including transportation, loading/unloading, painting etc. all complete..	MT	25	0.5850230%
2320A	Fixing of <b>GI pipe hand railing</b> of 32 mm/40 mm dia (Medium Grade) including transportation, loading/unloading, painting etc. all complete.	MT	50	0.2340090%
<b>2400</b>	<b>Providing Road Work including necessary material, labour, machinery, transportation etc as per specification, drawing, relevant laws of Bangladesh, relevant BS Standards (or equivalent international standard approved by BIFPCL/BHEL) and as directed by the Engineer-in-charge for the following.</b>			
2401A	<b>Preparation of sub grade</b> by excavating earth to required depth for all types of soil/rock, dressing to camber and compacting the base (top layer of minimum 500 mm thickness) to 85% relative density (ASTM D-4253 and D-4254) for free draining soils containing less than 15% by weight finer than 75 micron sieve non plastic material' or '98% of the maximum density as determined by ASTM D-1557 for soils containing more than 15% material passing the 75 micron sieve' including making good the undulation etc and disposal of surplus earth within a lead upto 1 km etc. all complete.	CUM	42635	0.4148870%
2403A	Providing, stacking & laying <b>wet mix material in layers of required thickness for shoulder</b> consisting of crushed gravel or crushed rock, including watering, compaction with road roller to required camber etc all complete.	CUM	9981	6.2073500%
2404A	Providing & laying <b>granular sub-base</b> in layers of required thickness with crushed rock or other approved local material like brick metal, stone screening & blinding material including screening, sorting, spreading to template & consolidation with road roller including carriage, spreading & consolidation of blinding material etc all complete as per specification.	CUM	30100	21.8470230%
2412A	Supplying and laying 400mmx100mmx325mm deep <b>precast concrete kerb stone</b> of grade C40/50 as per BS EN-206 and BS 8500 or equivalent international standard with 20 mm nominal size stone aggregate and of shape as per detailed drawing including fixing with cement mortar (1:2) in 13mm thick joints, finishing of joints with neat cement paste, making drainage opening where required etc all complete.	RM	24845	0.6264560%
2413	Providing & laying <b>edge protection</b> on both edges of black topping using brick on edge (bricks with crushing strength of 75 kg/cm <sup>2</sup> ) with full brick width (230 mm) etc all complete.	RM	NA	
2414A	Supply and laying <b>150mm dia</b> non pressure <b>RCC pipes</b> conforming to BS 5911 or equivalent in raised shoulders as rain water drains as per detailed drawing including fixing with cement mortar (1:2) in 13mm thick joints, finishing of joints with neat cement paste etc all complete.	RM	5960	0.7468710%

**VOLUME-III  
PRICE SCHEDULE, REV-02**

PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.

TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17

SCH-4 : TOTAL PRICE BREAK UP FOR CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	ALLOTTED PERCENTAGE FOR AMOUNT OF EACH ITEM( Nearest to the 6 decimal points) W.R.T THE TOTAL OF QUOTED PRICE IN SCH-1
A2400	<b>Providing and placing concrete work including cost of labour, materials and equipment for handling, transportation, batching, mixing, placing, vibrating, shuttering, formwork and curing (excluding cost of reinforcement), with mechanised equipments like batching plant, transit mixer, concrete pump etc. complete as per drawing, specification and as per direction of engineer in charge for the following. [Type –I cement as per ASTM C150-16 with C3A content limited to 5 to 8 % shall be used . Supply of cement is in the scope of contractor. No separate payment shall be given for supply of cement to the contractor]</b>			
A2417A	Providing & laying <b>dry lean concrete</b> of required thickness of <b>grade C8/10</b> as per BS EN-206 and BS 8500 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33) including breaking chips and screening including providing and fixing formwork, compaction, finishing, curing etc all complete.	CUM	1113	1.0620900%
A2418A	Providing and laying <b>cement concrete of grade C25/30</b> conforming to BS EN-206 and BS 8500 or equivalent international standard with coarse sand and graded hard stone aggregate of 20mm nominal size with approved admixture (if required), provision for necessary joints including compaction, finishing to lines and grades, curing and providing & fixing forwork etc. all complete. (Excluding the cost of reinforcement and dowel bar)	CUM	2491	3.0621500%
B2400	<b>Providing and placing concrete work including cost of labour, materials and equipment for curing, transportation, batching, mixing, placing, vibrating, shuttering, formwork and curing (excluding cost of reinforcement), with mechanised equipments like batching plant, transit mixer, concrete pump etc. complete as per drawing, specification and as per direction of engineer in charge for the following. [The cement shall be Supplied by BHEL as free of cost]</b>			
B2417A	Providing & laying <b>dry lean concrete</b> of required thickness of <b>grade C8/10</b> as per BS EN-206 and BS 8500 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33) including breaking chips and screening including providing and fixing formwork, compaction, finishing, curing etc all complete.	CUM	1113	0.7211380%
B2418A	Providing and laying <b>cement concrete of grade C25/30</b> conforming to BS EN-206 and BS 8500 or equivalent international standard with coarse sand and graded hard stone aggregate of 20mm nominal size with approved admixture (if required), provision for necessary joints including compaction, finishing to lines and grades, curing and providing & fixing forwork etc. all complete. (Excluding the cost of reinforcement and dowel bar)	CUM	2491	2.0844490%
C2400	<b>Placing concrete work including cost of labour, materials and equipment for handling, transportation, batching, mixing, placing, vibrating, shuttering, formwork and curing (excluding cost of reinforcement), with mechanised equipments like batching plant, transit mixer, concrete pump etc. complete as per drawing, specification and as per direction of engineer in charge for the following. (RMC SHALL BE PROVIDED BY BHEL AT BATCHING PLANT IN PROJECT PREMISES . TRANSPORTATION FROM THE BATCHING PLANT UP TO THE POURING POINT SHALL BE UNDER THE SCOPE OF CONTRACTOR)</b>			
C2417A	Laying <b>dry lean concrete</b> of required thickness of <b>grade C8/10</b> as per BS EN-206 and BS 8500 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33) including breaking chips and screening including providing and fixing formwork, compaction, finishing, curing etc all complete.	CUM	7791	1.9136720%
C2418A	Laying <b>cement concrete of grade C25/30</b> conforming to BS EN-206 and BS 8500 or equivalent international standard with coarse sand and graded hard stone aggregate of 20mm nominal size with approved admixture (if required), provision for necessary joints including compaction, finishing to lines and grades, curing and providing & fixing forwork etc. all complete. (Excluding the cost of reinforcement and dowel bar)	CUM	17434	5.5164220%
D2400	<b>Placing concrete work including cost of labour, materials and equipment for handling, placing, vibrating, shuttering, formwork and curing (excluding cost of reinforcement), with mechanised equipments like concrete pump etc. complete as per drawing, specification and as per direction of engineer in charge for the following. (RMC SHALL BE PROVIDED BY BHEL AT POURING POINT BUT DEVELOPMENT OF ACCESS ROAD FROM NEAREST SITE ROAD TO POURING POINT IS UNDER THE SCOPE OF CONTRACTOR)</b>			
D2417A	Laying <b>dry lean concrete</b> of required thickness of <b>grade C8/10</b> as per BS EN-206 and BS 8500 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33) including breaking chips and screening including providing and fixing formwork, compaction, finishing, curing etc all complete.	CUM	1113	0.2124180%
D2418A	Laying <b>cement concrete of grade C25/30</b> conforming to BS EN-206 and BS 8500 or equivalent international standard with coarse sand and graded hard stone aggregate of 20mm nominal size with approved admixture (if required), provision for necessary joints including compaction, finishing to lines and grades, curing and providing & fixing forwork etc. all complete. (Excluding the cost of reinforcement and dowel bar)	CUM	2491	0.6124300%
<b>REINFORCEMENT</b>				
2420A	Providing and fixing in position <b>MS dowel bar</b> reinforcement conforming to AASHTO M-31/ASTM-Designation A615 of <b>Grade-60</b> including surface painted with bitumen and greasing, dowel end caps with cotton fills etc all complete as per specification, drawing and as directed by Engineer.	MT	60	0.5773800%
<b>MISCELLANEOUS</b>				
2423A	Supplying & installation of <b>bitumen impregnated fibre board</b> confirming to relevant BS code or equivalent international code as joint filler at joints in concrete including nailing, coating of both faces with coal tar pitch/bitumin etc. all complete.			

**VOLUME-III  
PRICE SCHEDULE, REV-02**

**PACKAGE# 3:- CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN AT 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER DOCUMENT NO - PSER:SCT:KLN-C1852:17**

**SCH-4 : TOTAL PRICE BREAK UP FOR CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR PLANT ROAD & DRAIN**

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	ALLOTTED PERCENTAGE FOR AMOUNT OF EACH ITEM( Nearest to the 6 decimal points) W.R.T THE TOTAL OF QUOTED PRICE IN SCH-1
b	20 mm wide joints.	SQM	635	0.0719880%
2424A	Supplying and filling in position <b>hot applied bitumin sealing compound</b> of specified thickness conforming to relevant BS code or equivalent international code including cleaning, mixing, heating, pouring/injecting sealing compound in gaps in joints including application of primer etc. all complete.	RM	38320	0.3495910%
2428	Providing and laying Impermeable <b>plastic sheeting 125 microns</b> thick laid flat without creases conforming to relevant BS code or equivalent international code etc all complete as per specification, drawing and as directed by Engineer.	SQM	109777	1.0131060%
2429	Providing <b>brick work</b> in cement mortar 1:6 (1 part cement 6 parts coarse sand) of 100mm in thickness at road edge including curing etc. all complete excluding plastering and painting.			
c	Using <b>burnt clay bricks</b> as per relevant BS code or equivalent international code with crushing strength of 75 Kg/cm <sup>2</sup>	CUM	497	0.4947000%
A2430	Designing, providing, fixing and installing in position guard rails (Railings shall be of galvanized steel, which shall be epoxy-painted) including foundation, supporting posts, signs, glass reflector elements, painting etc all complete as per specification, relevant laws of Bangladesh, AASHTO guidelines/equivalent relevant International standards, approved by BIFPCL/BHEL and as directed by Engineer.	RM	775	0.1264830%
A2431	Designing, providing, fixing and installing in position Plastic guideposts including signs, glass reflector elements, painting etc all complete as per specification, relevant laws of Bangladesh, AASHTO guidelines/equivalent relevant International standards, approved by BIFPCL/BHEL and as directed by Engineer.	Each	502	0.1412760%
<b>TOTAL ALLOTTED PERCENTAGE</b>				<b>71.5153860%</b>

Package-3: Civil, Structural And Architectural Works for Plant road & drain for 2x660 MW Maitree STPP, Rampal, Bangladesh.

Tender no PSER:SCT:KLN-C1852:17.

TCN-4, ANNEXURE-A

SI. No	Volume / Section / Document	Page No	CL. NO.	Bid Specification	Bidders Query	BHEL's Reply
1	VOLUME-III				Our quoted value for each item can be increase or decrease your prescribed WEIGHTAGE percentage ? Or We will have to prepare the BOQ based on your prescribed WEIGHTAGE percentage ?	Weightage of the each item shall be remain same. Bidder's quoted total price of SCH-1 at SI. no 1 of the price schedule shall be apportioned into amount of various items of works based on allocated percentages against respective item of SCH-3 & 4.
2	VOLUME-III				In BOQ format item description, Unit & Quantity are same for the for the following serial no.-  Serial No.     A-200 ( A-201 to A-205) B-200 (B-201 to B-213) D-200 (D-201 to D-213)  1 ) For serial no A-200 we need to consider material and labor charge to prepare BOQ ?  2) For serial no B-200 we need to consider material and labor charge (excluding Cement cost) to prepare BOQ ?  3)For serial no D-200 we need to consider only labor charge to prepare BOQ ?  4)Quantity are same in serial no A-200, B-200, D-200 which indicate the same location of work or different	1) Please go through description of the item for better clarity.  2)Please go through description of the item for better clarity.  3)Please go through description of the item for better clarity.  4) In same project.
3	GENERAL				To whom we need to submit the tender documents ?	Refer NIT for Tender dcoument submission .

**FORMAT FOR NO DEVIATION CERTIFICATE**  
**(To be submitted in the bidder's letter head)**

BHARAT HEAVY ELECTRICALS LIMITED,  
 Power Sector - Eastern Region,  
 Plot no 9/1, DJ Block, Sector – II, Salt Lake City,  
 Kolkata – 700 091

<b>Sub</b>	No Deviation Certificate.	
<b>Job</b>	Package-3: Civil, Structural And Architectural Works for Plant road & drain for 2x660 MW Maitree STPP, Rampal, Bangladesh.	
<b>Ref</b>	1.0	Tender no PSER:SCT:KLN-C1852:17.
	2.0	BHEL's NIT, vide reference no PSER:SCT:KLN-C1852:6088 Date:19-09-2017.
	3.0	BHEL's TCN-01, vide reference PSER:SCT:KLN-C1852:TCN-01, dated 04-10-2017.
	4.0	BHEL's TCN-02, vide reference PSER:SCT:KLN-C1852:TCN-02, dated 06-10-2017.
	5.0	BHEL's TCN-03, vide reference PSER:SCT:KLN-C1852:TCN-03, dated 12-10-2017.
	6.0	BHEL's TCN-04, vide reference PSER:SCT:KLN-C1852:TCN-04, dated 16-10-2017.
	7.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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