



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

TCN - 03

Ref: PSER:SCT:KLN-C1984:TCN-03

Date: 19-09-2019

Sub	Tender Change Notice (TCN) - 03.	
Job	PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP,AHP & MISC.WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.	
Ref	1.0	Tender no PSER:SCT:KLN-C1984:19.
	2.0	BHEL's NIT, vide reference no PSER:SCT:KLN-C1984:7559 Date: 13-09-2019.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:KLN-C1984:TCN-01 Date: 17-09-2019.
	4.0	BHEL's TCN-02, vide reference no PSER:SCT:KLN-C1984:TCN-02 Date: 18-09-2019.
	5.0	Other References, if any.

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

- 1) Clarification/Modification attached vide Annexure-A to TCN-03.
- 2) Introduction of currency matrix, attached vide Annexure-B to TCN-03.
- 3) Earnest Money Deposit amount mentioned in SL NO vii under CI No 1.0 of NIT shall be read as **INR 1,84,95,410/-**. All relevant clauses shall be read accordingly.
- 4) Revised Volume-IF-TCC-SUPPLY-CML-Rev-01 is attached herewith, superseding Volume-IF-TCC-SUPPLY-CML-Rev-00 issued earlier along with NIT. However, bidder shall go through entire volume before submitting their bid.
- 5) Revised BOQ cum Price Schedule, **VOLUME-III-PRICE SCHEDULE, REV-01** is attached superseding **VOLUME-III-PRICE SCHEDULE, REV-00** issued earlier along with NIT. **Bidders shall quote as per this revised Volume-III, Rev-01 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.
- 6) Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 7) All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,  
for BHARAT HEAVY ELECTRICALS LTD

Dy. Mgr. (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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**PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP,AHP & MISC.WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.  
(Tender no PSER:SCT:KLN-C1984:19.)**

**ANNEXURE-A TO TCN-03**

**CLARIFICATION/ MODIFICATION**

<b>SL. NO.</b>	<b>REFERENCE CLAUSE OF TENDER</b>	<b>EXISTING PROVISION</b>	<b>BIDDER'S QUERY</b>	<b>BHEL'S CLARIFICATION</b>
1.0	BOQ Item No. 2516		There seems to be some mistake in quantity or the weightage of item. Based on quantity and weightage, calculated rate for this item is coming almost four to five times more than the market rate. There is similar mismatch in many other BOQ items including Item no. 1801. We request you to review and revise your estimate and weightage of all items. Since contract mentions that quantities of individual items may vary up to any extent, it is very risky to have abnormally high or low rate of few selected items due to fixed weightage.	Weightage of the Price Schedule has been reviewed and revised Price schedule (REV-01) has been issued with this clarification.
2.0	BOQ Item no. under Sch 3		Under Schedule – 3 (service part) of Price Bid, which is 94.55% of the bid value, the cost of the materials to be arranged from other countries like India, will be around 50% of the contract value, the suppliers are requesting payments in INR currency. BHEL is requested to make the payments for those supply items in INR, and the applicable GST shall be paid / reimbursed for the supply items as per the actuals.  It is requested to consider the conversion factor for payment from USD to INR as per SBI TT Selling Rate on the date of payment and AIT (7%) should not be levied for the payments made in INR against supply items.	Payment against Supply of the items under Schedule 3 shall be made in India for Indian Bidder subject to submission of document as proof of purchase from India. Bidder shall submit break up of Complete items (to supply part & service part) with justification for approval of Construction Manager,BHEL-Maitree Site.  Ref CI No: 28 & 32 of VOLUME-IF-TCC-SUPPLY-CML, (REV-01) for Tax & terms of payment. Attached.
3.0	Clause no 28.4.3 (Vol-1F-TCC-Supply-CML, Rev-00)		As per the above clause material supplied by the bidder from India or any other country, the Commercial Invoice must contain the Bill to BHEL Bangladesh Site Address. As per the invoice address the Customs Authorities of Bangladesh is imposing Import Duty. Hence, BHEL is requested to reimburse the Import Duty as per the actuals.	Ref CI No: 28 & 32 of VOLUME-IF-TCC-SUPPLY-CML, (REV-01). Attached.
4.0			EXTENSION OF DDS	No extension is envisaged at this juncture. Bidder's are requested to submit their bid within due date and time.

**Currency Matrix for Erection contract being executed in Bangladesh - in USD ( Rev. 00 (11-04-2018)**

Sl no	Nature	Mode	Currency	Place of Deposit/ Return	Exchange Rate On	Rate Published by	Payable
1	Cost of tender	DD/NEFT/RTGS	Indian Rupees (INR)	India			In INR
		DD/ Telegraphic Transfer	United States Dollars(USD)	India	Tender floating	SBI Card Rate	INR/USD [ SBI Card Rate -- Bank TT Buying Rate]
		DD/ Telegraphic Transfer	Bangladesh Taka (BDT)	India/ Bangladesh	Tender floating	Bangladesh Bank	INR/BDT [ Bangladesh Bank -- Bank Selling Rate]
		DD/ Telegraphic Transfer	Other Foreign Currency	India	Tender floating	SBI Card Rate	INR/ Other Foreign Currency [ SBI Card Rate --Bank TT Buying Rate]
2	Financial Evaluation of Pre Qualification Criterion		Indian Rupees (INR)	India	Tender floating	SBI Card Rate	INR/USD [ SBI Card Rate -- Bank TT Selling Rate]
			United States Dollars(USD)	India			In USD
			Bangladesh Taka (BDT)	India	Tender floating	Bangladesh Bank	BDT / USD [ Bangladesh Bank - Bank Selling Rate]
			Other Foreign Currency	India	Tender floating	SBI Card Rate	Other Foreign Currency / INR [ SBI Card Rate - Bank TT Buying Rate] ----- INR / USD [SBI Card Rate - Bank TT Selling Rate]
3	EMD by Bidder [Upto INR 20 Lakhs--- Compulsory] [More than INR 20 Lakhs --- Optional]	DD/NEFT/RTGS	Indian Rupees (INR)	India			In INR
		DD/ Telegraphic Transfer	United States Dollars(USD)	India	Tender floating	SBI Card Rate	INR/USD [ SBI Card Rate -- Bank TT Buying Rate]
		DD/ Telegraphic Transfer	Bangladesh Taka (BDT)	India/ Bangladesh	Tender floating	Bangladesh Bank	INR/BDT [ Bangladesh Bank -- Bank Selling Rate]
		DD/ Telegraphic Transfer	Other Foreign Currency	India	Tender floating	SBI Card Rate	INR/ Other Foreign Currency [ SBI Card Rate --Bank TT Buying Rate]
4	EMD by Bidder [More than INR 20 Lakhs - Optional]	Bank Guarantee from Scheduled Bank in India.	Indian Rupees (INR)	India			In INR
		Bank Guarantee from Scheduled Bank in India. In case of Bank Guarantee by Foreign Bank, the bank Gurantee should be counter Guranteed / Confirmed by any Scheduled Bank in India	United States Dollars(USD)	India	Tender floating	SBI Card Rate	INR/USD [ SBI Card Rate -- Bank TT Buying Rate]
			Bangladesh Taka (BDT)	India	Tender floating	Bangladesh Bank	INR/BDT [ Bangladesh Bank Card Rate --Bank Selling Rate]
			Other Foreign Currency	India	Tender floating	SBI Card Rate	INR/ Other Foreign Currency [ SBI Card Rate --Bank TT Buying Rate]
5	Offer by Bidder		USD Compulsorily ( If inadvertently the same is quoted in any other currency , it will be converted to USD at TT Buying rate of SBI as on latest date of Part-I Bid opening). In case of bank holiday , forex rate of previous SBI Working day.				
6	Reverse Auction		United States Dollars(USD)				

Sl no	Nature	Mode	Currency	Place of Deposit/ Return	Exchange Rate On	Rate Published by	Payable
7	Price Bid Evaluation		USD Compulsorily (If inadvertently the same is quoted in any other currency, it will be converted to USD at TT Buying rate of SBI as on latest date of Part-I Bid opening). In case of bank holiday, forex rate of previous SBI Working day.				
8	Order by BHEL		United States Dollars(USD) / Evaluated USD				
9	Return of EMD to unsuccessful Bidder [ Net of Bank Charges]	DD/NEFT/RTGS	Indian Rupees (INR)	India			At the Actual amount received in INR
		DD/ Telegraphic Transfer	United States Dollars(USD)	India			At the Actual amount received in USD
		DD/ Telegraphic Transfer	Bangladesh Taka (BDT)	India			At the Actual amount received in BDT
		DD/ Telegraphic Transfer	Other Foreign Currency	India			At the Actual amount received in Other Foreign Currency
10	Conversion of EMD to SD for successful Bidder	Book Adjustment in BHEL	Indian Rupees (INR)	India	Tender floating	SBI Card Rate	INR/USD [ SBI Card Rate -- Bank TT Selling Rate]
			United States Dollars(USD)	India			At Actual USD
			Bangladesh Taka (BDT)	India	Tender floating	Bangladesh Bank	BDT / USD [ Bangladesh Bank - Bank Selling Rate]
			Other Foreign Currency	India	Tender floating	SBI Card Rate	Other Foreign Currency / INR [ SBI Card Rate - Bank TT Buying Rate] ----- INR / USD [SBI Card Rate - Bank TT Selling Rate]
11	Billing	By Sub-contractor (Hord Copy)	United States Dollars(USD)	Bangladesh			In USD
12	Payment against contract execution[ Currency of the Contract USD]	Cheque/ EFT / SWIFT	United States Dollars(USD)	Bangladesh			In USD
			Bangladesh Taka (BDT) -- (At the discretion of BHEL only if payment in USD is not possible)	Bangladesh	Date of Payment	Buying Rate of Banker of BHEL	USD / BDT [BHEL's Bangladesh Banker's Buying Rate]
13	Balance SD	As per Tender ( Deposit before start of work / Recovery from RA Bills)	United States Dollars(USD)-- (After adjusting 100% EMD converted to SD)	Bangladesh for Recovery from RA Bill /India in case of BG			In USD
14	Performance Bank Guarantee (where applicable)	Bank Guarantee from Scheduled Bank in India.	United States Dollars(USD)	India			In USD
		Bank Guarantee from Scheduled Bank in India. In case of Bank Guarantee by Foreign Bank, the bank Gurantee should be counter Guranteed / Confirmed by any Scheduled Bank in India					

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This volume shall be construed as part of tender document and shall be read along-with other volumes of tender. Unless otherwise specified, in case of any confusion of any clause/ provision of this volume or any conflict/ inconsistency of any clause/ provision of this volume with that of other volumes, the same shall be brought out by the Successful bidder in writing to BHEL for clarification or during pre-bid discussions, if applicable, failing which most stringent interpretation in favour of BHEL shall be adopted and the same shall be binding to the Successful bidder. Unless otherwise specified, all terms & conditions shall be applicable for entire scope and for each part/ package of tender.

CLAUSE NO	DESCRIPTION
<b>1.0</b>	<b>NAME OF JOB</b>
	The scope of Supply for civil works for Maitree STPP Unit-1 & 2 of Coal, Ash, Lime and Gypsum handling plant,. The scope of work is indicative but not limited to the given below. <ul style="list-style-type: none"> <li>• Door</li> <li>• Window</li> <li>• Rolling Shutter</li> <li>• Pipes</li> <li>• Eqp. for Solid Waste Management</li> <li>• Mandatory Spares for Solid waste Management</li> <li>• Mild Steel</li> <li>• Other products for completion of Project and as directed by engineering in-charge, BHEL.</li> </ul>
<b>2.0</b>	<b>BROAD SCOPE OF WORK</b>
2.1	The work to be done under this specification comprises of design, engineering, manufacturing, assembly, inspection, testing at manufacturer's/ sub-vendor's works, painting, proper packing, transportation, delivery, handing over at site of equipment as stated above & detailed in the specification & elsewhere in tender documents.
2.2	Splitting up of supply contract into two supply contracts one for Local supply and other for the foreign supply would not be entertained.
2.3	The scope of work broadly covers as per specification & elsewhere in the document but shall not be limited to the following.
2.3.1	Detail design of Cladding sheet as per specification.
2.3.2	Preparing the manufacturing quality plan.
2.3.3	Deleted
2.3.4	Providing requisite sets (both hard & soft copy) of engineering drawings, as-built drawing, plant handbook, storage, preservation & painting manual, erection manual, etc as specified elsewhere in the tender.
2.3.5	Arranging inspection of equipment and accessories etc at manufacturer's/ sub vendor's premises.
2.3.6	Packing & transportation of goods from manufacturer's works/ sub vendor's works.
2.3.7	Any equipment not specified here but required to make the equipment complete shall be under the scope of the successful bidder.
2.3.9	<b>Transportation of materials on FOR destination/ site basis and door delivery of materials at site.</b>
2.3.10	<b>The Bidder shall continue to act as custodian of the materials and in case of any loss in transit, appropriate recovery shall be made from the Bidder.</b>
2.3.11	<b>The bidder shall provide a copy of the Purchase Order issued their C&amp;F Agent before commencement of transportation of goods from the registered place. The C&amp;F agent shall maintain close liaison with BHEL officials in Bangladesh with respect to the compliance of Export formalities from India/overseas and Import formalities in Bangladesh.</b>

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2.3.12	Preparing schedules and furnishing progress report in requisite mode & number.
2.4	Drawings/ documents submitted along with tender are for guidance purpose only and no claim/ compensation, whatsoever, shall be entertained by BHEL on this account.
2.5	All other points shall be as per the terms & conditions and specification along with aforesaid references together with amendments incorporated thereto.
<b>3.0</b>	<b>SITE VISIT</b> Successful bidder should visit site and acquire full knowledge & information about site conditions prevailing at site and in & around the plant premises together with all the statutory, obligatory, mandatory requirements of various authorities before submission of the offer.
<b>4.0</b>	<b>PROJECT MANAGEMENT</b> To meet the need of project management, successful bidder shall provide the following services within quoted/ accepted prices.
4.1	<b>PLANNING &amp; MONITORING</b>
4.1.1	The Successful bidder shall prepare L1 schedule/ network of engineering, manufacturing, testing, and procurement of sub-vendor items, as per completion schedule given in this document. This network must conform to the overall project schedule.
4.1.2	Based on L1 network the successful bidder will prepare L2 network which will indicate exhaustive list of activities of engineering, procurement of raw materials, manufacturing, testing, procurement of sub-vendor items, and dispatch as per completion schedule given in this document. This network must include all milestone and key activities for each subsystems/ components in the areas of engineering (wherever applicable), procurement, manufacture (wherever applicable), dispatch, erection/ commissioning.
4.1.3	Based on L2 network The successful bidder will develop L3 network, which will indicate micro details of each activity of L2 network and also show customer/ BHEL hold points, responsibility of the customers/ BHEL and Successful bidder.
4.1.4	Above schedules are to be preferably made in Microsoft Project, so that the same is compatible with BHEL's project management software.
4.1.5	Above schedules/ networks would be submitted to BHEL sequentially by the successful bidder within 15 days from date of LOI and finalized within a month.
4.2	<b>PROGRESS REPORTING</b>
4.2.1	The successful bidder shall prepare and submit to BHEL monthly progress report indicating progress on key activities, management summary for critical activities, list of actions requiring attention of BHEL in CD (compatible to BHEL software) and also in requisite number of hard copies. The input & output data for all such schedule shall be furnished to BHEL in a manner compatible with BHEL software available at site. A copy of progress report must be submitted to Construction Manager/ BHEL/ site and Project Manager/ BHEL/ Kolkata latest by 7 <sup>th</sup> of every month covering the detailed progress achieved in the previous month.
4.2.2	The progress report shall indicate the progress achieved against planned with reasons indicating delays, if any, and shall give the remedial actions which The successful bidder intends to take to make good the slippage or lost time, so that further works again proceed as per the original program and the slippage's do not accumulate and effect the overall program.
4.2.3	Weekly progress review meetings will be held at site during which actual progress during the week vis-à-vis scheduled program shall be discussed or actions to be taken for achieving target. The program of subsequent week shall also be presented by Successful bidder for discussions. The Successful bidder shall constantly update/revise his work program to meet the overall requirement.
4.2.4	Periodic progress reviews on the entire activities of execution in respect of supply and works in scope of Successful bidder will be held once in a month at Kolkata/site. These meetings will be attended by reasonably higher officials of the Successful bidder and will be used as a forum for discussing all areas where

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	progress needs to be speeded up. The Successful bidder shall be further responsible for ensuring that suitable steps are taken to meet various targets decided upon such meetings.
4.2.5	Still colour photography (matt paper, post card size, max 10 nos per month for the entire contract execution period) depicting progress of the work, damage to the machine parts, if any, as directed by BHEL site engineer is to be arranged by The successful bidder at his own cost.
4.2.6	Successful bidder have to provide electronic/ computerized storing & re-production/ printing/ plotting of various data, log sheets, protocols, measurements etc. These may be stored in virus free CD & handed over to BHEL as per requirement.
4.2.7	Other provisions of Volume-IA of this tender would be applicable.
<b>5.0</b>	<b>SERVICES TO BE RENDERED BY THE SUCCESSFUL BIDDER</b>
5.1	Services for complete engineering, coordination and project management as detailed elsewhere in this tender.
5.2	Services for shop test, quality assurance, as detailed elsewhere in this tender.
5.3	Supply of main equipment along with other items as per specification maintaining sequential dispatch.
5.4	Supply of first fill of lubricants for all equipment including second fill/ replenishment as necessary after commissioning till handing over of the plant/ equipment
5.5	Furnishing of all document, drawing, design basis, reports, instruction manuals, etc including "As Built Drawing".
5.6	Furnishing preservation schedule with all details of preservation method and preservatives required storing.
5.7	<b>DOCUMENTS</b>
5.7.1	The successful bidder shall furnish 6(Six) sets of approved drawing & documents before start of fabrication work.
5.7.2	The successful bidder shall furnish 6 (Six) sets of as-built drawing along with 4 copies of CD ROM.
5.7.3	The successful bidder shall furnish 6 (Six) sets of 'Storage, preservation & painting manual'.
<b>6.0</b>	<b>COMMUNICATION</b>
	The successful bidder shall be responsible for arranging all communication facilities at office. The successful bidder has to establish independent internet/ e-mail facilities with mobile connection for all key site personnel and same shall be integrated with BHEL's voice/ data network & database systems at site. The successful bidder's office must have facilities of communications like Fax, E-mail, and telephone with STD facility etc.
<b>7.0</b>	<b>GENERAL TECHNICAL REQUIREMENTS (CODES AND STANDARDS)</b>
7.1	The work must be performed according to the most recent relevant codes, standards, accident prevention regulations and local rules and legal regulations.
7.2	All materials and equipment supplied and all work carried out as well as calculation sheets, drawings, quality and class of goods, methods of inspection, specific design features of equipment and parts and acceptances of partial plants shall comply in every respect with the applicable standards, codes and regulations to be chosen from the following:
7.2.1	American Association of State Highway and transportation Officials AASHTO American Concrete Institute ACI American Gear Manufacturers Association AGMA American Institute of Steel Construction AISC American Iron & Steel Institute AISI American Moving and Conditioning Association AMCA American National Standards Institute ANSI American Petroleum Institute API American Public Health Association APHA American Society for Testing and Materials ASTM

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	<p>American Society of Civil Engineers ASCE  American Society of Heating, Refrigeration &amp; Air Conditioning Engineers ASHRAE  American Society of Mechanical Engineers ASME  American Water Works Association AWWA  American Welding Society AWS  American Wire Gauge AWG  Anti-Friction Bearing Manufacturers Association AFBMA  Architectural Institute of Japan AIJ  Association Francaise de Normalisation AFNOR  British Standards Institute BS  Chlorine Institute CI  Crane Manufacturers Association of America CMAA  Deutsches Institut für Normung DIN  Diesel Engine Manufacturers Association DEMA  European Norm EN  Expansion Joint Manufacturer Association EJMA  Fédération Européene de Manutention FEM  Heat Exchanger Institute HEI  Hydraulic Institute HI  Illuminated Engineers Society IES  Institute of Electrical and Electronics Engineers IEEE  Instrument Society of America ISA  Insulated Power Cable Engineers Association IPCEA  International Electrotechnical Commission IEC  International Standards Organization ISO  Japanese Architectural Standard Specification JASS  Japanese Electrical Manufacturers Association JEMA  Japanese Electrotechnical Institute JEC  Japanese Industrial Standards JIS  Manufacturers Standardization Society MSS  National Association of Corrosion Engineers NACE  National Electrical Code (USA) NEC  National Electrical Manufacturer Association (USA) NEMA  National Electrical Safety Code NESC  National Fire Protection Association NFPA  National Structural Code for Building NSCB  Occupation Safety and Health Administration OSHA  Portland Cement Association PCA  Properties of Water and Steam IFC  Scientific Apparatus Manufacturers Association SAMA  Society of Automotive Engineers ASE  Standards of Japanese Electrotechnical Committee JEC  Steel Structures Painting Council SSPC  Technische Vereinigung der Grosskraftwerksbetreiber VGB  Tubular Exchanger Manufacturers Association TEMA  Underwriters Laboratory UL  Uniform Building Code UBC  Verband Deutscher Elektrotechniker VDE  Verein Deutscher Ingenieure VDI  Vereinigung Deutscher Elektrizitätswerke (Association of German Power Plants) VDEW  Water Pollution Control Federation WPCF</p>
7.3	Generally, all internationally and nationally recognized standards as above will be applied, except if specific standards called for by:
7.3.1	<p>a) Occupational Safety Board of Bangladesh  b) Department of Inspection for Factories and Establishments, Bangladesh  c) Department of Environment, Bangladesh</p>

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	<p>d) Bangladesh Power Development Board  e) Bangladesh Energy Regulatory Commission  f) Ministry of Power, Energy and Mineral Resources  g) Bangladesh Fire Service and Civil Defence Ministry  h) All relevant Bangladesh National Statutory Regulations  i) Bangladesh National Building Code  j) Bangladesh Standards  k) Local Authorities.</p>
7.4	All steam boilers and unfired pressure vessels together with associated pipework and fittings shall comply with the Bangladesh Boiler Act, 1923 with amendments.
7.5	All pressure parts shall be designed in accordance with applicable ASME codes.
7.6	All services, supplies and works shall comply with the requirements of the relevant laws of Bangladesh and the IFC/World Bank Group Standards and Guidelines in their latest edition, including but not limited to:
7.6.1	<p>Environmental Conservation Rules  Bangladesh Energy Regulatory Commission Act;  BERC Licensing Regulation  BERC Technical Quality Standards;  Bangladesh National Building Code;  other applicable laws in Bangladesh;  IFC Performance Standards on Environmental and Social Sustainability;  IFC / World Bank Group Environmental, Health and Safety (EHS)  General Guidelines;  IFC / World Bank Group EHS Guidelines for Thermal Power Plants;  IFC / World Bank Group EHS Guidelines for Electric Power  Transmission and Distribution.</p>
7.7	It is contractor's responsibility to provide sufficient evidence that any national or other standard the Contractor proposes (other than those mentioned above) will ensure an equivalent or higher standard.
7.8	Except where otherwise specified, the plant/equipment shall comply with the appropriate agreed internationally accepted Standard Specification as mentioned elsewhere in contract specifications, each incorporating the latest revisions at the time of tendering. Where no internationally accepted standard is applicable, the Successful bidder shall give all particulars and details as necessary; to enable BHEL to identify all of the plant/equipment in the same detail as would be possible had there been a Standard Specification.
7.9	Where the Successful bidder proposes alternative codes or standards he shall include in his tender one copy (in English) of each Standard Specification to which materials offered shall comply. In such case, the adopted alternative standard shall be equivalent or superior to the standards mentioned in the specification.
7.10	In case bidder proposes any IS code, it shall be verified by reputed institutions like IIT that the proposed code is equivalent or superior to the codes mentioned above. Comparison report shall be established and provided to BHEL/Owner for information. Such report shall highlight the main items of the code, including material composition, material properties, design clauses and others as required. Report shall identify deviations of both codes and give justification for this deviation.
7.11	The bidder shall ensure that design will consider material properties as per approved code.
7.12	In the event of any conflict between the codes & standards referred above, and requirements of this specification, the requirements which are more stringent shall govern.
7.13	Wherever specified or required the plant/equipment shall conform to various applicable statutory regulations at Bangladesh. Wherever required, obtaining approval for plant/ equipment supplied under the specification from statutory authorities shall be the responsibility of the successful bidder.
7.14	Below mentioned IS codes have been approved/accepted by BIFPCL:

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7.14.1	IS 2061 for Structural Steel
<b>8.0</b>	<b>ENGINEERING SERVICES</b>
	As part of the overall project management activity, the successful bidder shall be responsible for proper engineering and coordination activities during various phases of execution of the contract. The successful bidder shall identify one Engineering Manager with whom BHEL will interact on all matters on coordination between BHEL and the contactors. The Engineering Manager shall be the single point contact person on behalf of the successful bidder and shall be responsible for all engineering co-ordination.
<b>9.0</b>	<b>QUALITY PLAN</b>
	The Successful bidder shall furnish the quality assurance plan which would be approved by BHEL/ owner.
<b>10.0</b>	<b>QUALITY ASSURANCE PROGRAMME</b>
	To ensure that the equipment & services under the scope of the contract whether manufactured/ performed at Successful bidder's works or at Successful bidder's premises or at any other place of work are in accordance with the specifications The successful bidder shall adopt suitable quality assurance programme to control activities as necessary. Such programme shall be outlined by the successful bidder and shall be finally accepted by BHEL/ owner/ authorised representative. A quality assurance programme of the successful bidder shall generally cover the following.
10.1	The organization structure and qualification data of key personnel for the management and implementation of the proposed quality assurance program.
10.2	System for site erection control including process controls and fabrication and assembly controls.
10.3	The procedure for purchase of materials, parts, components and selection of sub-Successful bidder's service including Successful bidder analysis, source inspection, incoming raw material inspection, verification of materials purchased, etc.
10.4	System for shop manufacturing and site erection control including process control, fabrication and assembly controls.
10.5	Control of non-conforming items and system for corrective actions.
10.6	Inspection and test procedure for all site related works.
10.7	Control of calibration and testing of measuring and testing equipment.
10.8	System for quality audit.
10.9	System for indication and appraisal of inspection status.
10.10	System for authorizing release of manufactured product to BHEL.
10.11	System for handling storage and delivery.
10.12	System for maintenance of records.
10.13	Furnishing of Quality Plan for manufacturing and Field activities detailing out the specific quality control procedures adopted for controlling the quality characteristics relevant to each item of equipment/ component.
<b>11.0</b>	<b>GENERAL REQUIREMENTS - QUALITY ASSURANCE</b>
11.1	All materials, components and equipment covered under this specification shall be procured, manufactured, and tested at all the stages, as per a comprehensive Quality Assurance Program. An indicative program of inspection/tests to be carried out by the successful bidder for some of the major items is given in the respective technical specification. This is however not intended to form a comprehensive program as it is the responsibility of the successful bidder to draw up and implement such program duly approved by BHEL The detailed quality plan for manufacturing should be drawn up by the Successful bidder and will be submitted to BHEL for approval.
11.2	Manufacturing Quality Plans will detail out all the equipment & components, various tests/ inspection to be carried out as per requirement of specification & standards mentioned therein and the quality practices & procedures, etc to be followed by The successful bidder 's quality control organization during various stages of materials procurement, manufacturing, assembly and final testing/ performance testing.

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11.3	The Successful bidder shall furnish copies of reference documents/ plant standards/ acceptance norms/ tests and inspection procedures etc. as referred in Quality Plans along with Quality Plan. These Quality Plans and reference documents/ standards etc. will be subject to BHEL/ owner's approval without which manufacturing will not proceed. These approved documents will form part of the contract. In these approved Quality Plans, BHEL/ authorized representative shall identify customer hold points, test/ checks which shall be carried out in presence of BHEL/ owner's representative and beyond which work will not proceed without consent of BHEL/ owner. All deviations to the specifications, approved Quality Plan and Applicable standards must be documented and referred to BHEL for approval & disposition.
11.4	Quality audit/ approval of the results of tests and inspection will not prejudice the right of BHEL to reject equipment not giving the desired performance after erection and shall not in no way limit the liabilities and responsibilities of the successful bidder in earning satisfactory performance of equipment as per specification.
11.5	Repair/ rectification procedures to be adopted to make any job acceptable shall be subject to the approval of BHEL/ owner.
<b>11.6</b>	<b>The successful bidder shall ensure that only asbestos-free materials including consumables are used/supplied at the project. Any material having asbestos content is forbidden in the project.</b>
<b>12.0</b>	<b>QUALITY ASSURANCE DOCUMENT</b>
12.1	The successful bidder shall be required to submit the following Quality Assurance Documents within 2 weeks after dispatch of the equipment.
12.1.1	Test report of components.
12.1.2	The inspection plan with verification, inspection plan check points, verification sketches, if used and methods used to verify that the inspection and testing points in the inspection plan were performed satisfactorily.
12.1.3	Non-destructive examination results/ reports including radiography interpretation reports.
12.1.4	Welder identification list listing welder's and welding operator's qualification procedures and welding identification symbols.
12.1.5	Sketches and drawings used for indicating methods of traceability of the radiographs to the location of the equipment.
12.1.6	Stress relief time temperature charts.
12.1.7	Factory test results for testing required as per applicable codes and standards referred to in the specification.
12.1.8	Inspection Report duly signed by QA Personnel of BHEL and successful bidder for the agreed inspection hold points. During course of inspection the following will also be recorded.
12.1.8.1	When some important work repair work is involved to make the job acceptable.
12.1.8.2	The repair work remain part of the accepted product quality.
12.1.8.3	Letter of conformity certifying that that requirement is in compliance with finalised specification requirements.
<b>13.0</b>	<b>INSPECTION, TESTING AND INSPECTION CERTIFICATE</b>
13.1	<b>Inspection, Examination and Testing</b>
13.1.1	All design, engineering, equipment, materials, Plant and workmanship supplied by Successful bidder or for which Successful bidder is responsible shall be subject to inspection, examination and testing by the BHEL/Employer's (BIFPCL) and/ or Engineer's (FICHTNER) designated consultants and/ or representatives at any and all times during design, engineering, manufacture, procurement, fabrication and construction and at any and all places where such design, engineering, manufacture, procurement, fabrication and construction are carried on.  Provided such inspection, examination and testing shall to the extent possible be carried out in conjunction with Successful bidder's similar activities, and if not, upon prior consultation with Successful bidder in order to avoid any unnecessary delay in

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	the performance of the Work.
13.1.2	In furtherance of the foregoing, Successful bidder shall arrange for the aforesaid consultants and representatives of the Employer and/ or Engineer to have access to all places where manufacture or preparation of equipment, materials and Plant or construction activities are being carried out.
13.1.3	In respect of the Work which the Employer and/ or Engineer are entitled to examine, inspect, measure and/or test, Successful bidder shall give notice (of not less than 20 working days) to the Employer and the Engineer whenever any such Work is ready and before it is covered up, put out of sight or packaged for storage or transport. The Employer and/or the Engineer shall then either carry out the examination, inspection, measurement or testing without unreasonable delay, or give notice to Successful bidder that Employer and/ or the Engineer (as applicable) does not require to do so after receipt of Successful bidder's notice for such examination, inspection, measurement or testing at Site.
13.1.4	If Successful bidder fails to give such notice, it shall, if and when required by the Employer and/or the Engineer, uncover the work and thereafter reinstate and make good, all at Successful bidder's cost and expense. The Employer and the Engineer shall be responsible for their respective expenses in connection with inspection, examination and testing.
13.1.5	The Successful bidder shall co-operate with and provide full opportunity to the Employer/Engineer to regularly monitor the progress of manufacture in the Works of the Successful bidder to the detailed extent necessary to establish that satisfactory progress relative to the Contract Schedule is being achieved.
13.1.6	All pertinent information such as shop loading, detailed manufacturing programs to enable the Employer and/ or Engineer to determine the adequacy of the advance planning for material procurement, machine and manpower resources to meet the Contract Schedule shall be made freely available to the Employer and/ or Employer 10 working days before visiting the manufacturing facilities.
13.2	<b>Rejection and Replacement</b>
13.2.1	The Employer and/ or the Engineer and their designated consultants and representatives shall have the right to reject any portion of the Work which is effective, deficient, not within specifications provided in the Contract or not according to Good Industry Practice or faulty workmanship and require its repair or replacement
13.2.2	Rejected and other defective equipment, materials and Plant shall be satisfactorily replaced with proper replacements. The costs and expenses associated with such repairs and replacements shall be to the account of Successful bidder and not reimbursable
13.2.3	After completion of the necessary repairs or replacements, the relevant equipment, materials and Plant, shall be subject to further inspection, examination and testing by the Employer and/ or Engineer and their designated consultants and representatives, all the costs and expenses of which shall be to the Successful bidder's account.
13.2.4	If Successful bidder fails to proceed promptly with the replacement of rejected equipment, materials and Plant and the correction of defective workmanship, Employer and/ or the Engineer may, by contract with third parties or otherwise, replace such equipment, materials and Plant or correct such workmanship and/or may terminate this Contract and Successful bidder shall be liable and reimburse Employer and/ or the Engineer (as applicable) upon demand for all costs, expenses and damages incurred by the Employer and/ or Engineer relating to such replacement or correction.
13.2.5	The Successful bidder shall be entitled to remove and retain all rejected components Work that the Employer and/ or may have replaced at the Successful bidder's cost.
13.3	The Successful bidder shall furnish; at each location where inspection, examination and testing is carried out; all reasonable facilities, assistance, labour, equipment,

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	materials, utilities, apparatus and instruments necessary for the safe and convenient inspection and testing of material and workmanship that may be required pursuant to this Contract.
13.4	The right of inspection, examination and testing by Engineer or the Employer, their designated consultants and representatives provided herein is intended solely for the Engineer's and the Employer's benefit, it being understood that no exercise of or failure to exercise such right shall relieve Successful bidder of any of its obligations hereunder or prejudice any of the Engineer or Employer's rights under this Contract.
13.5	The Engineer, his duly authorized representative and/ or an outside inspection agency acting on behalf of BHEL/ owner shall have access at all reasonable times to inspect and examine the materials and workmanship of the works during its manufacture and if part of the works is being manufactured or assembled on other premises or works, The successful bidder shall obtain for the Engineer and for his duly authorized representative permission to inspect as if the works were manufactured or assembled on Successful bidder's own premises or works. Necessary arrangement for carrying out inspection including supply of labour, IMTEs, area illumination and scaffolding, if required will be Successful bidder's responsibility and same has to be carried out within the quoted price.
13.6	To facilitate advance planning of inspection in addition to giving inspection notice the successful bidder shall furnish quarterly inspection program indicating schedule dates of inspection at customer hold point and final inspection stages. Updated quarterly inspection plans will be made for each 3 consecutive months and shall be furnished before beginning of each calendar month.
13.7	Before any plant/equipment leaves the place of manufacture BHEL shall be given the option of witnessing inspections and tests for compliance with the specifications and related standards. The successful bidder shall give the engineer/ Inspector 15 days written notice of any material being ready for testing. Such test shall be to the successful bidder's account except for the expenses of the Inspector .The Engineer/ Inspector, unless the inspection is waived will attend such tests within 15 days of the date on which the equipment is notified as being ready for test/ inspection failing which The successful bidder may proceed with test which shall be deemed to have been made in the Inspector's presence and he shall forthwith forward to the Inspector duly certified copies of test reports.
13.8	The Engineer or Inspector shall within 15 days from the date of inspection as defined herein give notice to The successful bidder of any objection wrt drawing/ equipment/ workmanship which in his opinion not in accordance with the specification/ contract. The successful bidder shall either make modification as may be necessary to meet the said objection or explain to the engineer/ inspector giving reasons that no modifications are necessary to comply with the contract.
13.9	When the factory tests have been completed at The successful bidder's or successful bidder's works, the engineer or Inspector shall issue a certificate to this effect within reasonable time after completion of tests but if the tests are not witnessed by the engineer or Inspector the certificate shall be issued within 15 days of the receipt of Successful bidder's test certificate by the engineer Inspector. The completion of these tests or the issue of the certificates shall not bind BHEL to accept the equipment should it on further tests after erection be found not to comply with the contract.
13.10	In all cases where The successful bidder provides the tests at the premises of The successful bidder or any sub-vendor, The successful bidder except where otherwise specified shall provide free of charge such items as labour, materials, electricity, fuel, water, stores, apparatus and instruments as may be reasonably demanded by the Engineer/ Inspector to carry out effectively such tests on the equipment in accordance with the contract and shall give facilities to the Engineer/Inspector to accomplish testing.
13.11	<b>INSPECTION &amp; JOINT VERIFICATION (AT SUCCESSFUL BIDDER'S WORKS)</b>

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13.11.1	Prior to dispatch, the materials would be offered by The successful bidder for joint inspection at The successful bidder's works as detailed in this tender specification for which The successful bidder would serve the advance notice of 15 days for inspection call to BHEL.
13.11.2	For further information, Successful bidder shall visit web site <a href="http://cqir.bhel.in">http://cqir.bhel.in</a> to login & lodge inspection related calls.
13.12	<b>INSPECTION &amp; JOINT VERIFICATION (AT SITE)</b> The successful bidder shall be intimated within 7 days from the date of receipt of each consignment at site to depute their representative for joint inspection and verification of the equipment/ materials received at site. The successful bidder shall depute their representative within 7 days from receipt of such intimation failing which BHEL shall proceed with the inspection and verification of equipment/materials and BHEL's decision in this regard shall be final and binding to The successful bidder.
<b>14.0</b>	<b>OPERATING MANUAL AND MAINTENANCE INSTRUCTION</b>
14.1	The successful bidder shall provide at least 6 months before the time of commissioning, all necessary operating & maintenance (O&M) manual. The O&M manual shall be submitted in the form of one reproducible original and 15 copies.
14.2	The information which shall be contained in loose stiff backed covers, shall include following in addition to whatever has been specified in Volume-II of this tender.
14.2.1	A complete inventory of all main items of plant/equipment with identification details.
14.2.2	A complete set of all drawings, schematics, data sheets, schedules etc.
14.2.3	Service Manuals for all plant and equipment giving full descriptions of the main items and auxiliary items.
14.2.4	Schedule of recommendations for routine maintenance of all equipment inspection point, information on detection, cause and rectification of troubles & faults.
14.2.5	A lubrication schedule with all necessary drawings.
14.2.6	Manufacturer's literature for all the self-manufactured and bought out items.
14.3	Acceptance of O&M manual is subject to approval of BHEL.
<b>15.0</b>	<b>INSURANCE</b>
15.1	It is the entire responsibility of the successful bidder to insure their workmen against accident and injury while at work as required by the relevant rules and to pay compensation, if any, to their workmen as per statutory act. The successful bidder shall also insure their staff against accident/ injury with Workmen's compensation policy, group personal insurance, etc., as may be applicable.
15.2	The successful bidder shall take insurance covering for all materials (excluding plant material), tools & plants, manpower, workers, etc., required to be provided & deployed for the job by the bidder.
15.3	These insurance covers have to be taken prior to start of work and they shall make available the policy to Construction Manager, BHEL for necessary verification before start of work. However, irrespective of such verification/ acceptance, sole responsibility to maintain adequate insurance cover at all times during the period of contract shall lie with The successful bidder. Regarding aforesaid insurance cover, The successful bidder shall directly deal with the insurance company for all matters regarding the insurance in his scope.
15.4	BHEL/ customer shall arrange comprehensive insurance policy for total supply & services for main equipment/ system covering transit risks & loss, destruction or damage during handling at site, storage, civil works, erection, testing and commissioning up to trial operation/ completion of unit(s) including theft, sabotage, fire, lightning and other natural calamities. <b>The details of the underwriter shall be intimated to the successful bidder before commencement of dispatch of the materials from the registered place of the bidder.</b>
15.5	Successful bidder shall timely intimate dispatches/ discrepancy during contract operation, to the underwriter. The name of the underwriter and Policy No shall be intimated in due course of time.
15.6	The successful bidder will take necessary precautions/ due care to protect the

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	material at project site, while in their custody from any damage/ loss till the same is handed over to BHEL/ customer at project site. For lodging/ processing of insurance claim The successful bidder will submit necessary documents. BHEL reserve the right to recover the loss from The successful bidder in case the damage/ loss is due to negligence/ carelessness on the part of The successful bidder. In case of theft of material under Successful bidder's custody, the same shall be reported to police by The successful bidder immediately and copy of FIR and subsequently police investigation report shall be submitted to BHEL/ customer for taking up with insurance. However this will not relieve The successful bidder of their contractual obligation for the materials in his custody.
15.7	In case the damage/ loss/ theft of materials are attributable to negligence/ failure in discharging the duties and obligations of The successful bidder, the expenses incurred for repair/ replacement of such components in excess of the amount realized from the underwriters, limited to Normal Excess (Deductible Franchise) shall be recovered from The successful bidder.
15.8	In case the claim is summarily rejected by the underwriters due to WILFUL NEGLIGENCE of The successful bidder, the entire cost of repair/replacement will be recovered from The successful bidder.
15.9	It will be responsibility of The successful bidder to replenish the items lost/ damaged in time without hampering the schedule of work and without waiting for settlement of insurance claim. Amount received from the underwriters on settlement of insurance claim shall be passed on to The successful bidder as and when available.
15.10	Other conditions of Insurance shall be as per relevant clause of GCC.
<b>16.0</b>	<b>MATERIAL DESPATCH CLEARANCE CERIFICATE (MDCC) AND MATERIAL RECEIPT CERTIFICATE (MRC)</b>
16.1	MDCC shall be issued by BHEL/ owner or their authorized representative prior to dispatch. In case the tests are not witnessed by BHEL/ owner's representative, the test certificates shall be submitted to owner through BHEL and MDCC will be issued thereafter.
16.2	Copy of MDCC and other dispatch document shall accompany with every dispatch, failing which the consignment shall not be allowed to enter the project premises.
16.3	MRC shall be issued by BHEL/ owner or their authorized representative after the material is received at site in good condition.
<b>17.0</b>	<b>REPORTING, CLEARING &amp; SHIPPING DOCUMENTS</b>
	The Successful bidder shall provide all official forms and documentary information as shall be necessary to fulfill the requirement of Bangladesh customs and the employer/BHEL. Following are the list of tentative documents as may be required during execution of the job:
17.1	<p><b>Reporting Documents</b></p> <ol style="list-style-type: none"> <li>1) Bill of lading – 1 copy</li> <li>2) Shipping specification – 2 copies</li> <li>3) Quality certificate – 2 copies</li> <li>4) Packing lists (one copy should be submitted along with the consignment, 2 copies in a special packet)</li> <li>5) <b>Marine Insurance Certificate</b> – 2 copies (by BHEL)</li> <li>6) <b>Transit insurance Intimation to the underwriter.</b></li> <li>7) Invoice in three (three) originals.</li> <li>8) Full set of <b>Bill of Lading/Airway Bill/Truck Receipt/ Railway Receipt</b> in one(one) original and 3(three) copies marked freight prepaid.</li> <li>9) <b>Warranty Certificate</b> in one (one) original as per contract.</li> <li>10) <b>Manufacturer's Factory Test Certificate</b> in one (one) original.</li> <li>11) <b>Quality and Quantity Certificate</b> of the materials and equipment shipped in one (one) original.</li> <li>12) <b>Factory Test Witnessing Certificate</b> or waiver certificate in one (one) original as applicable.</li> </ol>

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	<p>13) <b>Certificate of Origin Issued by the Manufacturer</b> of the materials shipped in one(one) original mentioning merchandise to be of anywhere except <b>Israel</b>.</p> <p>14) <b>Material Despatch Clearance Certificate</b> issued by the purchaser for goods supplied issued prior to the shipment date of goods as applicable.</p> <p>15) Copy of the <b>Charter Party Approved</b> by the employer.</p>
17.2	<p><b>Clearing Documents</b></p> <p>The Successful bidder shall forward to the Employer/BHEL through their bankers not later than seven (7) days from the date of sailing for the purpose of clearing the cargo at the point of destination the following documents required:</p> <p>a) Negotiable copy of bill of lading – 1 copy  b) Invoice with item wise prices – 3 copies  c) Shipping Specification – 3 copies  d) Copy of Charter Party Approved by Employer/BHEL</p>
17.3	<b>Shipping Documents</b>
17.3.1	<p>Simultaneously with the dispatch of the negotiable documents as listed in above the Successful bidder shall also send by air mail eleven (11) sets of non-negotiable shipping documents to the employer/BHEL. The invoices and shipping specification shall bear the insurance cover note number. Each set will comprise the following documents:</p> <p>a) The name of the vessel  b) Port of destination  c) Description of the cargo (grouped)  d) Number of cases and/or weight of cargo  e) Number of cases weighing above 20 tons and their individual weights  f) Number of bills of lading  g) Expected date of arrival at the port of destination</p>
17.3.2	<p>The Successful bidder shall so arrange that the master of the vessel will inform the employer/BHEL by cable of the date and time of arrival of the vessel at the port of destination seventy two (72) hours in advance.</p>
17.4	<p>The supplier shall furnish the following documents in addition to the above:</p> <p>a) Invoice addressing BHEL to the consignee in duplicate  b) LR / RR with material description (original)  c) Tax / Excise Invoice in duplicate  d) Material Test Reports for Chemical Composition.  e) Material Test Reports for Mechanical Properties.  f) Shipping bill &amp; Custom endorsed proof of exports  g) Other Certificate and Reports if any.</p>
<b>18.0</b>	<b>CONSIGNEE AND OTHER DETAILS</b>
18.1	<p>Consignee for material shall be as mentioned below.</p> <p>Managing Director,  Bangladesh-India Friendship Power Company (Pvt.) Limited,  Level-17, Borak Unique Height,  117, Kazi Nazrul Islam Avenue, Eskaton Garden,  Dhaka-1217, Bangladesh</p>
18.2.0.	Notify Party shall be as mentioned below.
18.2.1	<p>BHEL</p> <p>It shall be intimated later.</p>
18.2.2	<p>BIFPCL (OWNER)</p> <p>DGM (C&amp;M)  Bangladesh-India Friendship Power Company (Pvt.) Limited,  Level-17, Borak Unique Height,  117, Kazi Nazrul Islam Avenue, Eskaton Garden,  Dhaka-1217, Bangladesh</p>

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	Contact No.: +8801678582730 E-Mail ID: <a href="mailto:epcmainplant@bifpcl.com">epcmainplant@bifpcl.com</a>
18.2.3	The Successful bidder shall notify owner / BHEL at the abovementioned mail IDs before dispatch of any consignment. All correspondence with regard to dispatch of the material shall be done with the “Notify Party”.
18.3	Delivery Address for material shall be as mentioned below. Site In-charge, Bangladesh-India Friendship Power Company (Pvt.) Limited, 2x660 MW Maitree Super Thermal Power Project, PO-Kalekharber, Union-Rajnagar, Upajila-Rampal, Dist: Bagerhat-9333, Bangladesh Contact No.: +8801678582723
18.4.1	<b>PAYING AUTHORITY FOR INDIAN BIDDER</b> All issues related to invoicing, payment shall be addressed to following  Bharat Heavy Electricals Ltd. Power Sector Eastern region, BHEL Bhawan, Plot No. DJ – 9/1, Sec-II, Karunamoyee, Salt Lake, Kolkata, West Bengal-700091, India.  Any change of above shall be intimated to the successful bidder accordingly.
18.4.2	<b>PAYING AUTHORITY FOR OVERSEAS AND BANGLADESH BIDDER</b> All issues related to invoicing, payment shall be addressed to following  Construction Manager, BHEL site office, 2x660 MW Maitree Super Thermal Power Project, Bagerhat, Rampal, Bangladesh.  Any change of above shall be intimated to the successful bidder accordingly.
<b>19.0</b>	<b>DISPATCH</b>
19.1	All materials/ plants/ equipment shall be transported through roadways/waterways including ODC consignment. Dispatch shall only be made after inspection and issue of MDCC by BHEL/ owner. Advance information by fax/ courier of dispatch details shall be sent to Construction Manager, BHEL.
19.2	No consignment shall be dispatched on SELF basis. Material shall be dispatched prepaid, door delivery basis, else ensure the clearance and collection of goods from lorry go down and arrangement to transport the same to Site store shall be in the scope of successful bidder.
19.3	Each package should carry the packing slip/ details of contents and should be put inside a metal enclosure, properly fixed to the packing from outside. The packing shall be such as to ensure prevention of damage, corrosion, pilferage, deterioration, loss in transit or storage and road-worthy.
19.4	The title of the ownership of goods to be supplied shall pass on to the owner on dispatch ex works/ FOR destination. However till the scope is completed in all respect and the plant/ equipment is taken over by the owner the goods shall remain with the custody of the Successful bidder.
<b>20.00</b>	<b>PACKAGING</b>
20.01	All equipment and materials and other Plant shall be suitably coated wrapped, or covered and boxed or crated for export shipment and to prevent damage during handling and storage at the Site. Cardboard containers shall be enclosed in a solid wooden container.

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20.02	Equipment and process materials shall be packed and semi-knocked down, to the extent possible, to facilitate handling and storage and to protect bearings and other machine surfaces from oxidation. Each container, box, crate or bundle shall be reinforced with steel strapping in such a manner that breaking of one strap will not cause complete failure of the packaging. The packing shall be of best standard to withstand rough handling and to provide suitable protection from tropical weather while in transit and while awaiting erection at the Site.
20.03	Equipment and materials in wooden cases or crates shall be properly cushioned to withstand the abuse of handling, transportation and storage. Packing shall include preservatives suitable to tropical conditions. All machine surfaces and bearings shall be coated with oxidation preventative compounds. All parts subject to damage when in contact with water shall be coated with suitable grease and wrapped in heavy asphalt or tar impregnate paper.
20.04	Crates and packing material used for shipping will become the property of Employer, but the Successful bidder will be allowed to use the same for the Work as needed, but the remaining material shall be turned over to Employer upon completion of the Project.
20.05	Provided however, shippers container used for transportation of material shall be returned to the Successful bidder.
20.06	Packaging or shipping units shall be designed within the limitations of the unloading facilities of the receiving ports and the ship which will be used. Ships with special heavy capacity unloading rigging may be required for large units of equipment. It shall be the Successful bidder's responsibility to investigate these limitations and to provide suitable packaging and shipping to permit transportation to the Site.
20.07	Each package or shipping unit shall be clearly marked or stenciled on at least two sides as follows:  <p style="text-align: center;">BANGLADESH-INDIA FRIENDSHIP POWER COMPANY (Pvt.) LIMITED 2X660 MW MAITREE SUPER THERMAL POWER PROJECT BANGLADESH (Name of the Successful bidder)</p> <p>In addition, each package or shipping unit shall have the symbol painted in red on at least two sides of the package, covering one fourth of the area of the side.</p>
20.08	Each part of the equipment which is to be shipped as a separate piece or smaller parts packed within the same case shall be legibly marked to show the unit of which it is part, and match marked to show its relative position in the unit, to facilitate assembly in the field. Unit marks and match marks shall be made with steel stamps and with paint.
20.09	Each case shall contain a packing list showing the detailed contents of the package. When any technical documents are supplied together with the shipment of materials no single package shall contain more than one set of such documents. Shipping papers shall clearly indicate in which packages the technical documents are contained.
20.10	The case number shall be written in the form of a fraction, the numerator of which is the serial number of the case and the denominator the total number of case in which a complete unit of equipment is packed.
20.11	Wherever necessary besides usual inscriptions the cases shall bear special indication such as "Top", "Do not turn over", "Care", "Keep dry", etc., as well as indication of the centre of gravity (with red vertical lines) and places for attaching slings (with chain marks).
20.12	Cases which cannot be marked as above shall have metal tags with the necessary markings on them. The metal tags shall be securely attached to the packages with strong steel binding wire.
20.13	Each piece, skid, case or package shipped separately shall be labelled or tagged properly.

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20.14	The Successful bidder shall be solely responsible for packing and marking of cargo with respect to handling, transport. Successful bidder shall be fully liable for proper, sufficient and adequate packing, completeness of contents, protection of contents for a storage time of at least twelve months, and correct preparation of the packing list. All damage and costs whatsoever resulting from inadequate or insufficient packing shall be fully charged to the Successful bidder.
20.15	Packing and conservation of goods shall be sufficient to protect them from damage during transit from point of manufacturer up to unloading and storage at site under conditions which may involve multiple handling, extended storage, exposure to moisture and the possibility of pilferage.
20.16	Materials shall be suitably packed in weather proof, seaworthy packing for ocean transport under tropical conditions. The packing shall be strong and sufficient enough to ensure safe preservation of the materials up to the final point of destination.
<b>20.17</b>	<b>SPECIAL PACKING INSTRUCTIONS PRIOR TO DISPATCH</b>
20.17.1	Packing (tare) shall be part of the equipment cost and shall not be subject to return. The packaging should ensure integrity and cohesiveness of each delivery batch of equipment during transportation. In case of equipment assemblies in the packing of glass, plastics, or paper, the specification of the packaging with the material and weight characteristic are to be indicated.
20.17.2	All packages to be wrapped in transparent polythene inside the crates for effective weather proofing.
20.17.3	<b>Each package should have the following inscriptions legibly and clearly:</b> <b>Destination: MSTPP/ Bangladesh</b> <b>Package number: BHEL/MTR/BD/PSE/YYY/ZZZZZ</b> <b>Where: YYY stands for vendor name/code and ZZZZZ stands for package sl. no. (to be intimated by BHEL before dispatch)</b>  <b>Handling marks and the following Delivery marking:</b>  <b>Gross and Net weight:</b> <b>Dimension:</b> <b>Lifting Places:</b> <b>CONTRACT NO.: BIFPCL/EPC-MAIN PLANT/2016/01</b> <b>PURCHASER: BIFPCL, Bangladesh</b>
20.17.4	Packing commensurate with international standards and accepted norms will be ensured by CQA/ Unit QC/Third Party Inspection Agency.
20.17.5	The packing list has to be checked and certified by the Inspection agency/agencies with due signatures.
20.17.6	As far as possible, the packing has to be rectangular in shape for optimum space utilization in the ship and economize on shipping cost. Projections on packages are prohibited.
20.17.7	All packages shall be enclosed in suitable GI sheets on all sides.
20.17.8	No loose items or Gunny bags packing are allowed for shipment.
20.17.9	<b>Routing of Packing Lists:</b> Packing list is an extremely important document, which forms a part of export documentation in connection with the processing of custom formalities.
20.17.10	<b>Excise Attestation at Works:</b> To avoid opening of big cases, if applicable, for examination by customs at port of shipment, the supplying unit may arrange to get the packing cases sealed by local excise authorities/ self-certification and the relevant invoices and packing lists to be endorsed from Superintendent, Central Excise. Successful bidder to provide "specification of packing with the indication of the number of cargo packages, type of packing and weight of packing in English" along with the packing list.
20.17.11	<b>Marking on the consignment</b>

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	<p>For each invoice, item wise Mark No. has to be allotted as per guidelines mentioned above. This mark no. shall be put on all the packages of that particular item. However, there can be multiple items in one invoice.</p> <p>For example, if one invoice contains 4 items and each item contains 250, 100, 125 &amp; 75 no. of packages, then for 1st item, Mark number for all packages shall be: BHEL/MTR/BD/PSE/YYY/00001 and for 2nd item, Mark number for all packages shall be: BHEL/MTR/BD/PSER/YYY/00002 and so on.</p>
20.17.12	<b>Marking for safe handling</b>
20.17.12.1	To ensure safe handling, packing case shall be marked to show the following: Upright position, Sling position and Centre of Gravity position, Storage category. Fragile components (to be marked properly with a clear warning for safe handling.)
<b>21.0</b>	<b>CUSTOM CLEARANCE</b>
21.1	The successful bidder shall be responsible for Bangladesh customs clearance of all materials, supplies, equipment, tools and other articles shipped into Bangladesh by him for the implementation of his works, including the food and the personal effects of the Successful bidder's personnel.
21.2	All payment for clearance charge, storage charge, etc. which are imposed by the relevant agencies of the Government of Bangladesh, relating to the clearance of equipment, materials and Plant that will be incorporated in the Permanent Works or relating to the Temporary Works shall be borne by the Successful bidder. Further, if the Successful bidder is delayed in submitting necessary shipping documents to the Employer, the demurrage charges by the Port Authority will be borne by the Successful bidder.
21.3	Tools and equipment and other equipment of the Successful bidder for use during construction but which are to remain the property of the Successful bidder and which are to be exported by the successful bidder from Bangladesh at the completion of the Work shall be carefully documented and specially listed to facilitate both import and export. The Successful bidder shall determine prior to shipment the customs regulations applicable to this special case as well as normal import rules and regulations applicable. The Successful bidder shall also be responsible for inland transport by barge/ truck/train to the Site.
<b>22.0</b>	<b>LAWS AND REGULATIONS</b>
22.1	The Successful bidder agrees and acknowledges that:
22.1.1	He and their respective employees, servants, consultants and agents abide by all Applicable Law, (i) relating to the performance of the Work; (ii) by all rules and regulations of those Governmental Authorities who have control or jurisdiction over the Site or the countries where the Successful bidder may reside or perform work, directly or indirectly under this Contract (including the timely payment of any and all fees, assessments, or other governmental charges and registrations with relevant agencies or other Governmental Authorities required in connection therewith) and; (iii) with the terms and conditions of any Authorizations.
22.1.2	Successful bidder represents that it is fully aware of all of the Applicable Laws, terms and conditions of any Authorizations, business practices and plant rules and regulations which must be complied with when performing the Work.
22.1.3	Successful bidder shall furnish to Employer and Engineer, promptly upon request, such information concerning Successful bidder, their respective employees, consultants, servants and agents as the Employer or Engineer may be required to furnish to any applicable Governmental Authority.
22.2	Without prejudice to the generality of the foregoing:
22.2.1	The Successful bidder shall observe, comply with and respect Bangladesh laws, rules and

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	regulations and shall not interfere with Bangladesh political or religious affairs either directly or indirectly.
22.2.2	The Successful bidder shall comply with such other rules and regulations as Employer and the Engineer may establish from time to time with respect to the construction work and personnel employed by the Successful bidders provided such rules and regulations shall not modify any of the Contract.
22.2.3	The Successful bidder shall, in all dealings with its labor, pay due regard to all recognized festivals, official holidays, religious or other customs and all local laws and regulations pertaining to the employment of labor.
22.2.4	The Successful bidder shall not give or barter or otherwise dispose of, to any person or persons, any arms or ammunition of any kind, or permit the same as aforesaid.
22.2.5	In the event of any outbreak of illness of an epidemic nature the Successful bidder shall comply with and carry out such regulations, orders and requirements as may be made by the Government of the People's Republic of Bangladesh or the local medical or sanitary authorities, for the purpose of dealing with and overcoming the same.
<b>23.0</b>	<b>COMPLIANCE WITH APPLICABLE LAWS</b>
<b>23.1</b>	<b>Compliance</b>
23.1.1	Successful bidder shall ensure that its employees, servants, consultants and agents abide by all Applicable Law, relating to the performance of the Work and by all rules and regulations of those Governmental Authorities and persons who have control or jurisdiction over the Site (including the timely payment of any and all fees, assessments, or other governmental charges and registrations with relevant agencies or other Governmental Authorities required in connection therewith) and with the terms and conditions of any Authorizations.
23.1.2	Successful bidder represents that it is fully aware of all of the Applicable Laws, terms and conditions of the Authorizations, consents, business practices and plant rules and regulations which must be complied with when performing the Work.
23.1.3	Successful bidder shall furnish to the BHEL / Employer, promptly upon request, such information concerning its employees, consultants, servants and agents as BHEL / Employer may be required to furnish to any applicable Governmental Authorities.
<b>23.2</b>	<b>Related Compliance Obligations</b>
23.2.1	The Successful bidder shall Take all reasonable care that the Work is performed with the minimum possible impact on the environment and local community in respect of land and occupants affected by or adjacent to the Work.
23.2.2	The Successful bidder shall have responsibility prior to Provisional Acceptance Certificate for administration and co-ordination with the Governmental Authorities, as necessary, of any testing or the taking of any other action necessary to demonstrate the Work's compliance with all Applicable Laws, as well as the Authorizations, Consents, as maybe required for or issued in connection with the development, construction, erection and operation of the Works.
23.2.3	The Successful bidder shall provide BHEL / Employer with a copy of all communications with any such authorities and at least five (5) days prior written notice to BHEL / Employer in respect of any meeting with any such authorities (with Successful bidder responsible for obtaining all necessary permissions for the attendance of a representative of BHEL / Employer at any such meeting).
23.2.4	The Successful bidder shall carry out its obligations under this Contract so as not to cause or contribute to any breach by, or violation of, Employer of any Applicable Law, consent or Authorization.
<b>23.3</b>	<b>Permits and Licenses</b>
23.3.1	Successful bidder shall obtain and maintain all consents, permits and licenses (" <b>Consent</b> ") which are required by Applicable Law for the performance of the Work and to allow Successful bidder to perform and complete the Work in accordance

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	with the Contract Schedule (irrespective of whether the same are required to be procured in the name of Successful bidder or Employer), other than the Authorizations.
23.3.2	Specifically, where an Consent by its very nature can only be procured by the Employer (BIFPCL), the Employer shall at the Successful bidder's request, execute such documents and complete such formalities as are necessary for presentment of the application or other Consent related documents to the relevant Governmental Authority or other person. However, the foregoing shall in no circumstances be construed as (i) relieving the Successful bidder from his obligations under Clause 23.3.1 for which he shall remain primarily and fully responsible, or (ii) as imposing any responsibility on the Employer in respect of procurement of consents/ licenses/ approvals/ permits other than the Authorizations.
23.3.3	If requested by Successful bidder, BHEL / Employer shall provide reasonable assistance to Successful bidder in obtaining and maintaining such Consents. Successful bidder shall not be entitled to any adjustment to the Contract Schedule or the Contract Price or any other terms of this Contract relating to any delay or failure to obtain or maintain any such Consents.  Employer /BHEL will provide reasonable assistance to the Successful bidder for obtaining any required authorization and export licenses for exporting tolls, equipment, test equipment, and other Successful bidder's Equipment, all of which are and remain the property of the Successful bidder, from Bangladesh at the conclusion of the Work.
23.4	<b>SUCCESSFUL BIDDER'S RESPONSIBILITY TO GET ACQUAINTED WITH BANGLADESH LAWS, IMPORT POLICY, ETC.</b> The Successful bidder shall get himself acquainted with the relevant Bangladesh Laws as well as the import policy of the Government of People's Republic of Bangladesh remaining in force regarding import of banned items, if any, during the execution of the Contract. In case of import of any banned items and/or contraband item, the consequential liability shall rest with the Successful bidder. Similarly the Successful bidder shall be responsible for any non-conformance of Bangladesh Laws either by its own employees during execution of the Contract.
<b>24.0</b>	<b>APPROVED MANUFACTURER/ SUB-VENDOR</b> For other bought out items, Successful bidder have to adhere to the list of sub-vendors, indicated elsewhere in the technical specification, Volume-II/ approved sub-vendor.
<b>25.0</b>	<b>CONTRACT RATE/ PRICE</b>
25.1	Successful bidder shall quote their price in USD as per the format of Volume-III, price schedule (Latest revision) only.
25.2	While, total price will be considered for evaluation, as per provision of tender, separate orders will be placed for (i) Supply, and (ii) Service, as per price component in price schedule.
<b>26.0</b>	<b>BANK DETAILS</b>
26.1	EMD, Tender cost, & Security Deposit amount, as applicable, can also be submitted directly by Foreign Bidders (other than Indian bidders) to the followings Bharat Heavy Electricals Limited bank account in Bangladesh-  <u>SBI (Branch Address):</u>  Dr. Motiar Rahman Tower, 64 KDA Avenue, Tetultola Mor, Shibbari Khulna City Corporation, Khulna-9100. Phone: 88-040-721328 (Direct), 88-040-2730334 Ext. 102 Cell: 8801716-137626, Fax: 88-040-732339.

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	<p>A/C No (USD): <b>05620257520202</b>  A/C No (BDT): <b>:05620257520201</b></p> <p><u>SWIFT</u>: <b>SBINBDDH056</b></p> <p><u>ROUTING NO</u>: <b>220471543</b></p> <p>BHEL's address in Bank A/c- Bharat Heavy Electricals Ltd., Rampal, Bagerhat, Bangladesh.</p>
26.2	<p>EMD, Tender cost, &amp; Security Deposit amount, as applicable, can also be submitted directly by Indian Bidders to the followings Bharat Heavy Electricals Limited bank account in India-</p> <p>1. SBI (Branch Address:-Commercial Branch, Salt Lake, Sector V, Kolkata, Branch Code SBIN0004279), A/C No. 11107800028, INR Account.</p>
<b>27.0</b>	<b>EARNEST MONEY DEPOSIT (EMD) / SECURITY DEPOSIT (SD) / PERFORMANCE BOND (PB)</b>
27.1	<b>EARNEST MONEY DEPOSIT (EMD)</b>
	Not applicable.
27.2	<b>SECURITY DEPOSIT(SD)</b>
	Not applicable.
27.3	<b>PERFORMANCE BOND</b>
27.3.1	Performance bond for this part of specification shall be governed by the provision of GCC, Volume-IA.
<b>28.0</b>	<b>TAXES, DUTIES, ETC</b>
28.1	<b>Indian GST: (For Indian Bidders) – NOT APPLICABLE</b>
28.2.0	<b>BANGLADESH VAT (Applicable For Bidder From Bangladesh &amp; Other Bidders for Supply from Bangladesh)</b>
28.2.1	The Bidder shall submit copy of VAT registration Certificate (Musak-8), TIN Certificate, Trade License to the BHEL site office immediately after receiving the Order but before raising the first Tax Invoice against this tender.
28.2.2	<p>The bidder shall raise Tax Invoice (Challan Patra) as per Rule 16(1) (Musak-11) of the Value Added Tax Rules, 1991 mentioning Name, Address and VAT Registration Number of BHEL site office.</p> <p>Bidder shall note that the Tax Invoice complying with Rule16(1) of the Value Added Tax Rules, 1991 must contain the 'Bill to' and 'Ship to' details as below:</p> <p>BHEL VAT Regn. No. To be intimated later.  NAME Bharat Heavy Electricals Limited  ADDRESS Power Sector Eastern Region,  2x660 MW Maitree Super Thermal Power Project  Moidara Village, Rampal Upazila,  Bagerhat District, Bangladesh</p>
28.2.3	The bidder shall submit self-certified copy of the Treasury Challan and / or self-attested copy of the Current Account (Musak-18) along with the Tax Invoice as an evidence of payment of output tax claimed from BHEL.
28.2.4	<p>Bidders shall quote price excluding Bangladesh VAT.</p> <p>VAT is separately payable for which the bidder shall submit self-certified copy of the Treasury Challan and / or self-attested copy of the Current Account (Musak-18) along with the Tax Invoice as an evidence of payment of output tax claimed from BHEL.</p>

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28.2.5	Value Added Tax Deduction at Source:
28.2.5.1	<p>BHEL shall make deduction of VAT at source (VDS) , as / if applicable, from the Running Account Bills of the bidder depending upon the status of the bidder like “Manufacturer”, “Trader” or “Procurement Provider” as per the extant provision of the Value Added Tax Act, 1991 read with the relevant Notification issued thereunder.</p> <p>BHEL shall issue VAT Deduction Certificate in “Musak-12kha” to enable the service provider to take credit of the same while paying his Output VAT. Since VAT is separately payable by BHEL as mentioned in clause 28.2.3 &amp; 28.2.4 and since VDS is adjustable by bidder against his output tax, hence Bidder shall quote price excluding Bangladesh VAT.</p>
28.2.6	<b>The bidder must consider the duty drawback / export incentives available in Bangladesh while giving quotations.</b>
28.3	<b>Taxes- In Source Country (For Overseas Bidders other than Indian and Bangladesh )</b>
28.3.1	<b>Any taxes, duties, Cess etc. in the source country of the bidder shall be on bidder’s account. However, the bidder must consider the duty drawback / export incentive in the source country while giving quotations.</b>
28.4	<b>Imports in Bangladesh(Applicable for Indian Bidder and Bidder other than Bidder from Bangladesh)</b>
28.4.1	<p>Bidder may please note that import for the project shall be in the name of our Employer / Owner of the Plant / Project and such import other than Office and Household Equipment shall be exempted from payment of Customs Duty, VAT &amp; Supplementary Duty as per Special Order 373/655 Date: 13/12/2018 of National Board of Revenue, Govt. of Bangladesh. Also Regulatory Duty(RD), Advance Trade VAT(ATV) &amp; AIT are exempted / not applicable.</p> <p>Further, any documentation needed for facilitating the Imports like Bill of Entry, Bill of Lading, Packing List, Certificate of Origin etc. will be submitted by the bidder in reasonable time having regard to the time for delivery of the work and the time for completion.</p>
28.4.2	However, if any of the taxes as mentioned above are paid by the bidder as per the extant law in force in Bangladesh, the same shall be reimbursed at actuals subject to production of documentary evidence in support of such payment. However, the bidder shall obtain prior approval of BHEL before deposition of such taxes.
28.4.3	Temporarily imported erection materials, machineries and spare parts during construction period of Project are exempted from payment of Customs Duty and VAT. Such items shall be exported within six months from the commercial operation date. Documentation for the same to be submitted / maintained by the bidder.
28.4.4	Any Taxes for exporting material from source country & as applicable in the source country shall be on bidder's account. However, bidder to take into consideration Duty Free Export Provisions in source country, as applicable, including that in GST in case of exports from India. As such, while offering the rates, the bidder may take into account the benefit of above provisions, as the cost of input to the bidder will be net of such taxes and adjust their offer price accordingly to make it more competitive.
28.4.5	Any new taxes & duties, if imposed subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, you shall obtain prior approval from BHEL before depositing new taxes and duties.
28.4.6	Benefits and/ or abolition of all existing taxes must be passed on to BHEL against

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	new taxes, if any, proposed to be introduced at a later date.																
28.4.7	<p>Bidder shall note that the Commercial Invoice must contain the 'Bill to'; 'Ship to'; 'Consignee'; details as below:</p> <p>Bill to: -</p> <table border="0"> <tr> <td>NAME</td> <td>Bharat Heavy Electricals Limited</td> </tr> <tr> <td>ADDRESS</td> <td>Power Sector Eastern Region, 2x660 MW Maitree Super Thermal Power Project Moidara Village, Rampal Upazila, Bagerhat District, Bangladesh</td> </tr> </table> <p>Ship to / consignee Details:-</p> <p>Elsewhere mentioned in the Tender Document</p>		NAME	Bharat Heavy Electricals Limited	ADDRESS	Power Sector Eastern Region, 2x660 MW Maitree Super Thermal Power Project Moidara Village, Rampal Upazila, Bagerhat District, Bangladesh											
NAME	Bharat Heavy Electricals Limited																
ADDRESS	Power Sector Eastern Region, 2x660 MW Maitree Super Thermal Power Project Moidara Village, Rampal Upazila, Bagerhat District, Bangladesh																
28.4.8	The bidder should correctly and accurately classify all the materials, supplies, equipment, tools and other articles to be shipped under the subject purchase order as per the Harmonized Commodity Description and Coding System. The bidder may refer the website of Bangladesh Customs Authority in this regard ( <a href="http://www.bangladeshcustoms.gov.bd/trade_info/operating_center">http://www.bangladeshcustoms.gov.bd/trade_info/operating_center</a> ).																
28.4.9	The Bidder shall promptly unload the materials, supplies, equipment, tools and other articles.																
28.4.10	The bidder shall be responsible for import of all permanent imported items including freight forwarding, custom clearance on both side at India & Bangladesh, port handling, port charges and C&F commission & their offer Price should consider Demurrage, Landing fee and Additional Border Charges, and various other charges / fees imposed by the Customs Authority, Port Authority or any other authority. No extra payment shall be paid by BHEL in this regard. The price shall be FO.R. Site as such and shall be inclusive of all such requirement.																
<b>29.0</b>	<b>COMPLETION PERIOD</b>																
29.1	The successful bidder shall supply materials in such a manner that entire supply gets completed within <b>17 (Seventeen) months</b> from the start of work as certified by the Construction Manager, BHEL Rampal Site. Sixteen																
	<table border="1"> <thead> <tr> <th>Sl no.</th> <th>Major Milestone</th> <th>Months from the of start of work</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Supply of Rolling Shutter</td> <td>14 Months</td> </tr> <tr> <td>2</td> <td>Supply of Solid Waste management</td> <td>15 Months</td> </tr> <tr> <td>3</td> <td>Supply of Mandatory Spares of Solid Waste Management</td> <td>16 Months</td> </tr> <tr> <td>3</td> <td>Misc. items &amp; completion of Supply</td> <td>17 Months</td> </tr> </tbody> </table>	Sl no.	Major Milestone	Months from the of start of work	1	Supply of Rolling Shutter	14 Months	2	Supply of Solid Waste management	15 Months	3	Supply of Mandatory Spares of Solid Waste Management	16 Months	3	Misc. items & completion of Supply	17 Months	
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<b>30.0</b>	<b>DELIVERY/ SUPPLY SCHEDULE</b>																
30.1	Upon receipt of order/ LOI from BHEL, successful bidder shall interact with BHEL for kick-off meeting to discuss & firm up schedule of design/ engineering, manufacturing/ procurement, supply/ delivery of various items so as to complete the entire job within the stipulated completion period, matching with project schedule.																
30.2	<b>Intermediate Completion Schedule</b>																
30.2.1	Supply of Solid Waste management	Within <b>15 months</b> from the start of work as certified by the Construction Manager, BHEL Rampal Site															

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30.2.2	Intermediate schedule for balance structure shall be finalized after award of contract.
30.3	Based on the discussion of kick-off meeting or otherwise, master drawing/ document list (MDL) shall be drawn, which shall be subject to acceptance/ approval of BHEL.
30.4	Based on progress of design/ engineering, successful bidder shall progressively submit quantified billing break-up of entire scope. On acceptance of BHEL, approved billing schedule will be issued by BHEL.
30.5	Unless otherwise decided, broad schedule of supply for intermediate milestones/ activities shall be decided in kick-off meeting. Successful bidder shall note that departure from each milestone attracts penalty as per terms of tender.
30.6	On every month, The successful bidder shall submit to Construction Manager, BHEL MDL-wise plan vs actual status of design/ engineering, billing schedule-wise plan vs actual status of design/ engineering, manufacturing/ procurement, supply/ delivery of items, along with action plan to make-up delay, if any.
30.7	The project schedule might undergo revision/ modification periodically, for which The successful bidder may have to prepare/ modify schedule periodically in consultation with BHEL, so as to match with revised project milestones.
30.8	Deferment of above schedule is not acceptable. Successful bidder will adhere to schedule and augment resource to ensure completion as per schedule.
30.9	Progress reviews on entire activities will be held periodically as per direction of BHEL, at Kolkata/ site/ Bangalore. These meetings will be used as a forum for discussing all areas where progress needs to be expedited. The successful bidder shall be further responsible for ensuring that suitable steps are taken to meet various targets decided upon such meetings.
<b>31.0</b>	<b>EXTENSION OF TIME FOR COMPLETION</b>
31.1	If the completion of work as detailed in the scope of work gets delayed beyond the contract/ completion period, The successful bidder shall request for an extension of the contract and BHEL at its discretion may extend the contract.
31.2	Based on the reviews jointly signed, the scope balance at the end of original contract period less the backlog attributable to The successful bidder shall be quantified, and the number of months of 'Time extension' required for completion of the same shall be jointly worked out. Within this period of 'Time extension', The successful bidder is bound to complete the portion of backlog attributable to The successful bidder. Any further 'Time extension' or 'Time extensions' at the end of the previous extension shall be worked out similarly.
31.3	However if any 'Time extension' is granted to The successful bidder to facilitate continuation of work and completion of contract, due to backlog attributable to The successful bidder alone, then it shall be without prejudice to the rights of BHEL to impose penalty/ LD for the delays attributable to The successful bidder , in addition to any other actions BHEL may wish to take at the risk and cost of Successful bidder.
31.4	A joint program shall be drawn for the balance amount of work to be completed during the period of 'Time Extension'. Review of the program and record of shortfall shall be done.
31.5	At the end of total work completion as certified by BHEL engineer, and upon analysis of the total delay, the portion of time extensions attributable to (i) Successful bidder, (ii) Force majeure conditions, and (iii) BHEL, shall be worked out and shall be considered to be exhausted in the same order. The total period of time extensions shall be the sum of (i), (ii) and (iii) above and shall be equal to period between the scheduled date of completion and the actual date of completion of contract. LD shall be imposed/ levied for the portion of time extensions attributable to successful bidder and recoverable from the dues payable to The successful bidder.
<b>32.0</b>	<b>TERMS OF PAYMENT</b>
<b>32.1</b>	<b>Indian Bidder – Payment in INR ( For Supply from India )</b>

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	<p>(a) 95% of the payment shall be released against receipt of material at site. This payment shall be released on submission of following documents:</p> <ol style="list-style-type: none"> <li>1. Commercial and Tax Invoice in original &amp; duplicate- Addressed to BHEL Site Office</li> <li>2. Proof of Material Exported to Bangladesh</li> <li>3. Test certificate in original</li> <li>4. Copy of Inspection Report ( if Applicable )</li> <li>5. MDCC</li> <li>6. Store Receipt Voucher</li> </ol> <p><b><u>(B) Balance 5% shall be paid after completion of erection work and handed over of the structure to BHEL/BIFPCL against submission of handing over certificate duly signed by BHEL/BIFPCL</u></b></p> <p><b><u>(d) No advance shall be paid.</u></b></p> <p><b><u>(d) Paying Authority: AGM Finance, BHEL-PSER Kolkata.</u></b></p> <p><b><u>( e) Payment shall be made from Kolkata/HQ in the equivalent amount of USD to INR on the date of conversion of technical bid opening with SBI TT Selling rate or on the date of conversion with SBI TT Selling rate on actual remittance/ payment which ever is lower for Indian Bidder . This payment is subject to applicable ITDS in India.</u></b></p> <p><b><u>( f ) Payment shall be made in USD for Bangladesh bidder.</u></b></p>
<b>32.2</b>	<b>Bangladesh Bidder</b>
	<p>(a) 95% of the payment shall be released against receipt of material at site. This payment shall be released on submission of following documents:</p> <ol style="list-style-type: none"> <li>1. Bangladesh VAT compliant Invoice in original &amp; duplicate</li> <li>2. Test certificate in original</li> <li>3. Copy of Inspection Report (if applicable)</li> <li>4. MDCC</li> <li>5. Store Receipt Voucher</li> </ol> <p><b><u>(b) Balance 5% shall be paid after completion of erection work and handed over of the structure to BHEL/BIFPCL against submission of handing over certificate duly signed by BHEL/BIFPCL</u></b></p> <p><b><u>(d) No advance shall be paid.</u></b></p> <p><b><u>(d) Paying Authority: Construction Manager, BHEL-Rampal Site.</u></b></p>
<b>32.3</b>	<b>Overseas Bidder ( other than Indian and Bangladesh Bidder)</b>
	<p>95% of the payment shall be released against receipt of material at site. This payment shall be released on submission of following documents:</p> <ol style="list-style-type: none"> <li>1. Commercial and Tax invoice in original &amp; duplicate</li> <li>2. Test certificate in original</li> <li>3. Copy of Inspection Report (if applicable)</li> <li>4. MDCC</li> <li>5. Certificate of Origin</li> <li>6. Store Receipt Voucher</li> </ol>

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	<p>(c) Balance 5% shall be paid after completion of erection work and handed over of the structure to BHEL/BIFPCL against submission of handing over certificate duly signed by BHEL/BIFPCL against LC.</p> <p>(d) No advance shall be paid.</p> <p>(d) Paying Authority: <b><u>Construction Manager, BHEL-Rampal Site.</u></b></p>
32.4	The successful bidder shall submit their running bill (RA bill) once in a month, at the end of the month, as per billing schedule of this tender
32.5	Along with every RA bill, The successful bidder shall submit item-wise plan (w.r.t. L2 Schedule) vs actual status of supply, as applicable.
32.6	Progressive payment shall be made by BHEL against Successful bidder's RA bill, complete & correct in all respects accompanied by BHEL engineer's certified/ measurement sheet, jointly signed; requisite statutory certificates, certified by BHEL; after 30 days of submission of the bill.
32.7	Measurement will be taken as specified in terms & conditions of the contract and certified by the BHEL engineer of actual work.
32.8	Subject to any deduction which BHEL may be authorized to make under the contract, The successful bidder shall on the certification of BHEL engineer at site, be entitled to payment as per billing schedule.
32.9	However no extra payment shall be made in the event of deferment in payment.
32.10	All admissible recovery/ adjustment, etc. shall be made from interim payment.
<b>33.0</b>	<b>BILLING BREAK-UP</b>
33.1	Successful bidder shall submit detail billing schedule to BHEL for review & approval.
33.2	Progressive payment shall be made as per following billing break-up, in conjunction with terms of payment provision of the tender.
33.4.4	BHEL/ customer material dispatch clearance certificate (MDCC) enclosing QS note, inspection & test certificate, wherever applicable.
33.4.5	Copy of letter, addressed to insurance company intimating dispatch.
33.8	BHEL site, at discretion, may further split up the above percentages billing break-up and affect payment to suit the site condition, cash flow requirement, according to the progress.
33.9	The billing break-up is drawn for progressive payment and shall not be construed as the value/ price of corresponding item, unless otherwise decided by BHEL.
<b>34.0</b>	<b>MOBILISATION ADVANCE/ INTEREST BEARING RECOVERABLE ADVANCE</b>
	Not applicable for this tender.
<b>35.0</b>	<b>ESCALATION (PVC)</b>
	Not applicable for this tender.
<b>36.0</b>	<b>OVER RUN COMPENSATION (ORC)/ RATE REVISION</b>
	Not applicable for this tender.
<b>37.0</b>	<b>LIQUIDATED DAMAGE AND OTHER PENALTIES</b>
37.1	<p>If The successful bidder fails to complete entire scope of work within completion period, as mentioned in the clause no. 10.1 of volume - IF (TCC-Service) of the tender, for reasons attributable to them, BHEL shall have the right to recover, as liquidated damages (LD), a sum equivalent to 0.5% of contract price (supply part), including taxes, duties, etc. for delay of each week or part thereof.</p> <p><b>NOTE:</b> SINCE, IT IS A COMPLETE PACKAGE; LD SHALL BE LEVIABLE ONLY IN CASE OF DELAY IN COMPLETION OF ENTIRE SCOPE OF WORK (MAIN SUPPLY &amp; MAIN SERVICE). NO LD SHALL BE WITHHELD, IF THERE IS DELAY ONLY IN SUPPLY, BUT THE ENTIRE SCOPE OF WORK IS COMPLETED ON TIME, INCLUDING TIME EXTENTIONS FOR WHICH DELAY IS NOT</p>

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	ATTRIBUTABLE TO BIDDER AS PER VOLUME ID.
37.2	The liability for delay shall not in any case exceed 10 % (Ten percent) of the contract price (Supply part), including taxes, duties, etc.
37.4	BHEL shall deduct aforesaid amounts from any money due or which may become due to The successful bidder and/ or recover from the bank guarantees/ security deposit of The successful bidder. To be entitled to impose such compensation/ penalty/ recovery, BHEL will not be required to prove that they have incurred such amount as actual damage.
37.5	BHEL reserve the right to complete the job through other resource on account of and at the risk & cost of Successful bidder without notice to Successful bidder of the work not so executed, without cancelling the order/ contract in respect of the work not yet due for completion.
37.6	BHEL reserve the right to cancel the order/ contract or a portion thereof for the work not so completed at the risk & cost of The successful bidder and The successful bidder shall be liable to BHEL for any excess costs thereof.
37.7	The successful bidder shall continue with performance of the order/ contract under all circumstances, to the extent not cancelled.
37.8	Where action is taken as per above, The successful bidder shall be liable for any loss, which BHEL may sustain on that account. The successful bidder shall not be entitled to any gain on such action and the manner & the method of such purchase shall be at the discretion of BHEL. It shall not be obligatory on the part of BHEL to serve a notice of such completion, through other resource, on successful bidder.
37.9	Liquidated damages (LD) shall be applicable for each contract as per the corresponding completion periods as well as contract prices, indicated elsewhere in the tender.
37.10	All other terms & conditions of GCC shall be applicable.
<b>38.0</b>	<b>GUARANTEE / WARRANTY</b>
38.1	Guarantee / warranty period shall be 24 months from the date of issue of PAC including dredging work till completion of the Guarantee/Warranty period as per relevant clause of GCC. Commencement of guarantee period shall be from the date completion of work under the contract as certified by BHEL.
38.11	Other provision shall be as per the GCC.
<b>39.0</b>	<b>BANK CHARGE</b>
	No interest, whatsoever, shall be payable by purchaser on the security deposit, any bank guarantee submitted or any amount due to the seller/ Successful bidder.
<b>40.0</b>	<b>OTHER TERMS</b>
	All other term & conditions of this specification shall be governed by the pertinent provisions of GCC & other volumes of this tender, as applicable.

<b>VOLUME-III PRICE SCHEDULE, REV-01</b>	
<b>PACKAGE 14C: CIVIL &amp; ARCHITECTURAL WORKS FOR CHP, AHP &amp; MISC. WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.</b>	
<b>TENDER NO - PSER:SCT:KLN-C1984:19</b>	
<b>PREAMBLE</b>	
01	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 anywhere in this document.
02	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.
03	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
04	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.
05	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 plus minus thirty percent ( $\pm 30\%$ ) of the awarded price as per LOI.
06	Prior written approval of BHEL shall be sought by the contractor in case quantity variation of any item crosses +50% (plus fifty percent) limit during execution and approval to be obtained before execution of further quantity for this item.
07	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.
08	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.
09	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/altered 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.
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/BPWD 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 shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight charges 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-01			
PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP, AHP & MISC. WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.			
TENDER NO - PSER:SCT:KLN-C1984:19			
SCH-1 : TOTAL PRICE			
SL NO	DESCRIPTION	PRICE SCHEDULE REF	TOTAL QUOTED PRICE (IN USD)
1.0	TOTAL PRICE FOR PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP, AHP & MISC. WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.	SCH 2 - BREAK UP OF TOTAL PRICE	<u>IN FIGURES:-</u>  <u>IN WORDS:-</u>
2.0	<b>NON-SCHEDULE ITEM</b> Quote % above or % below or at par for items not covered SCH 3,4 & 5 of Price Schedule. The rate shall be derived from Schedule of Rates 2014, PWD, Govt. of Bangladesh		
1a)	Rate of complete item	___% above/ ___% below/ at par of BPWD Rate Schedule 2014	
1b)	Rate of supply of material at site only	___% above/ ___% below/ at par of BPWD Rate Schedule 2014	
1c)	Rate for execution complete excluding supply of materials.	___% above/ ___% below/ at par of BPWD Rate Schedule 2014	
<b>NOTE</b>			
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 reckoned & will stand null & void.		
2.0	Bidder to note that total price at sl no 1.0 above shall be considered for evaluation. However awarding shall be done in two parts (1) SUPPLY PART -(For Sch-5) and (2) SERVICE PART - (For Sch-3, Sch-4 & Sch-6) . 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 to note that SCH-2 is Break-up of Total Price.		
3.1	Bidder to note that SCH-3 covers SERVICE of respective items, unless specified otherwise in the description of items.		
3.2	Bidder to note that SCH-4 is Break-up of TOTAL PRICE BREAK UP FOR GROUND IMPROVEMENT WORK unless specified otherwise in the description of items.		
3.3	Bidder to note that SCH-5 is Break-up of SUPPLY unless specified otherwise in the description of items.		
3.4	Bidder to note that SCH-6 is Break-up of O&M of Solid waste management plant unless specified otherwise in the description of items.		
4.0	Bidder's quoted total price at Sl. no 1 above respectively shall be apportioned into amount of various items of works based on allocated percentages against respective item, in respective schedules/ parts. 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.		
5.0	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.		
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.7 below.		
7.0	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 2 decimal places will be taken into account. Any adjustment, if required, due to such methodology, will be effected in final bill.		
8.0	Successful bidder shall draw a schedule of quantities of various items of work of SCH-5 and obtain BHEL's approval/ clearance in writing before procurement, supply, etc.		
9.0	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.		
10.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.		
11.0	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.		
12.0	For payment of non schedule items, the rate shall be derived from Schedule of Rates 2014, PWD, Govt. of Bangladesh.		

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

<b>SL NO</b>	<b>DESCRIPTION</b>	<b>PRICE SCHEDULE REF</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>
1.0	SERVICE	SCH 3 -SERVICE	94.5033820%
2.0	SERVICE-GROUND IMPROVEMENT	SCH 4 -SERVICE-GROUND IMPROVEMENT	1.1339220%
3.0	SUPPLY	SCH 5-SUPPLY	3.9234180%
4.0	O&M	SCH 6-O&M	0.4392780%
	<b>TOTAL ALLOTTED PERCENTAGE</b>		<b>100.0000000%</b>

**VOLUME-III  
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**PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP, AHP & MISC. WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

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**SCH-3 : SERVICE**

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, relevent 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. <b>This item is only applicable for excavation by using of Sheet Pile . Payment for Sheet Pile shall be paid as per Item No. 2516</b>			
a	Depth from ground level but not exceeding 2 m	CUM	23684.000	0.1359920%
b	Depth exceeding 2 m but not exceeding 4 m	CUM	6280.000	0.0449470%
c	Depth exceeding 4 m but not exceeding 6 m	CUM	190.000	0.0016980%
d	Depth exceeding 6 m but not exceeding 8 m	CUM	140.000	0.0015620%
e	Depth exceeding 8 m but not exceeding 10 m	CUM	75.000	0.0010040%
f	Depth exceeding 10 m but not exceeding 12 m	CUM	20.000	0.0003080%
B101	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. <b>This item is applicable in all the excavation areas except excavation by using of Sheet Pile .</b>			
a	Depth from ground level but not exceeding 2 m	CUM	186157.000	2.9808740%
b	Depth exceeding 2 m but not exceeding 4 m	CUM	31770.000	0.6693050%
c	Depth exceeding 4 m but not exceeding 6 m	CUM	1710.000	0.0587050%
d	Depth exceeding 6 m but not exceeding 8 m	CUM	1260.000	0.0584900%
e	Depth exceeding 8 m but not exceeding 10 m	CUM	675.000	0.0409420%
f	Depth exceeding 10 m but not exceeding 12 m	CUM	180.000	0.0138510%
A102	Extra over ST No. A101 & B101 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	9200.000	0.0892830%
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	489.000	0.0032030%
e	Each layer compacted so as to achieve at least 85% relative density as per ASTM D-4253 & ASTM D-4254	CUM	2714.000	0.0159130%
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	38.000	0.0001280%
e	Each layer compacted so as to achieve at least 85% relative density as per ASTM D-4253 & ASTM D-4254	CUM	152.000	0.0004670%
A109	Extra over ST No. A101, B101 and A107 to A108 for carriage of material/earth for every 500 m or part thereof beyond an initial lead of 1 Km.	CUM	164213.000	0.0929620%
A111	Supplying and filling sand (grading limits as per specification) upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted so as to achieve at least <b>85% relative density as per ASTM D-4253 &amp; ASTM D-4254</b> including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	CUM	369.000	0.0378990%
B111	Supplying and filling dredge sand (grading limits as per specification) upto any depth under floors, around foundations, plinths etc. to achieve at least 85% relative density as per ASTM D-4253 & ASTM D-4254 including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	CUM	124866	2.2266490%
A 200	<b>CONCRETE WORKS (EXCEPT ROAD WORKS)</b>			

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**PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP, AHP & MISC. WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER NO - PSER:SCT:KLN-C1984:19**

**SCH-3 : SERVICE**

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>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 –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 against supply of cement by 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	3	0.0011550%
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	1134	0.3928360%
A203	Concrete of grade C12/15 as per BS EN-206 and BS 8500 or equivalent international standard (with 40 mm graded aggregate) as lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	98.000	0.0423930%
AA203	Concrete of grade C12/15 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) as lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	1989.000	0.7743550%
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	7.000	0.0031360%
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 <b>foundations/substructure, grade slab, paving, drains, under floors</b> 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 <b>as per specification &amp; drawing for the following.</b>			
a	Grade C20/25	CUM	93.000	0.0461190%
b	Grade C25/30	CUM	153.000	0.0780640%
c	Grade C30/37	CUM	90.000	0.0472120%
A206	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 <b>superstructure</b> at all level above 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 <b>as per specification &amp; drawing for the following.</b>			
c	Grade C30/37	CUM	240.000	0.1263740%
AA211	Providing and <b>encasing</b> of structural steel member with <b>concrete</b> as per BS EN-206 and BS 8500 or equivalent International code using nominal aggregate size of 12.5mm down. Encased member shall be wrapped with welded wire mesh/chicken wire mesh with proper lap etc. complete as per specification for the following grades. (Payment of welded wire mesh, chicken wire mesh shall be made separately)			
b	C20/25 grade	CUM	7.000	0.0040120%
AA212	<b>Screed concrete</b> conforming to relevant BS code or equivalent international code with coarse sand and graded hard stone aggregate 12.5mm/6 mm nominal size on the roof at any level or thickness, drains etc complete as per following.			
a	1:2:4 (1 part cement, 2 part sand, 4 parts of aggregate by volume)	CUM	39.000	0.0213400%

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**TENDER NO - PSER:SCT:KLN-C1984:19**

**SCH-3 : SERVICE**

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 <b>in precast works</b> 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	8.000	0.0046190%
A214	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 <b>in water retaining/conveying structures</b> including addition of suitable plastisizer cum waterproofing cement additives conforming to BS 934 or equivalent international standard to achieve a slump more than 125 mm in concrete as per manufacturers recommendation and conforming to limits of permeability as per relevant BS code or equivalent international code and specification with 20 mm nominal size graded aggregate for following grades. Watertightness is to be ensured including structural grouting if required.			
b	C 30/37 grade	CUM	60.000	0.0397670%
<b>C 200</b>	<b>CONCRETE 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. (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>			
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	149	0.0103090%
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	63	0.0043610%
C203	Concrete of grade C12/15 as per BS EN-206 and BS 8500 or equivalent international standard (with 40 mm graded aggregate) as lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	1422.000	0.1229930%
CC203	Concrete of grade C12/15 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) as lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	110.000	0.0085530%
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	123.000	0.0110120%
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 <b>in foundations/substructure, grade slab, paving, drains, under floors</b> 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 <b>as per specification &amp; drawing for the following.</b>			
a	Grade C20/25	CUM	3928.000	0.3894580%
b	Grade C25/30	CUM	6410.000	0.6536900%
c	Grade C30/37	CUM	4196.000	0.4397840%

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**TENDER NO - PSER:SCT:KLN-C1984:19**

**SCH-3 : SERVICE**

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
C206	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 <b>in superstructure</b> at all level above 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 <b>as per specification &amp; drawing for the following.</b>			
c	Grade C30/37	CUM	20116.000	2.1164980%
CC211	<b>Encasing</b> of structural steel member with <b>concrete</b> as per BS EN-206 and BS 8500 or equivalent International code using nominal aggregate size of 12.5mm down. Encased member shall be wrapped with welded wire mesh/chicken wire mesh with proper lap etc. complete as per specification for the following grades. (Payment of welded wire mesh, chicken wire mesh shall be made separately)			
b	C20/25 grade	CUM	335.000	0.0303300%
CC212	<b>Screed concrete</b> conforming to relevant BS code or equivalent international code with coarse sand and graded hard stone aggregate 12.5mm/6 mm nominal size on the roof at any level or thickness, drains etc complete as per following.			
a	1:2:4 (1 part cement, 2 part sand, 4 parts of aggregate by volume)	CUM	723.000	0.0625340%
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 <b>in precast works</b> 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	145.000	0.0197530%
C214	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 <b>in water retaining/conveying structures</b> including addition of suitable plastisizer cum waterproofing cement additives confirming to BS 934 or equivalent international standard to achieve a slump more than 125 mm in concrete as per manufacturers recommendation and conforming to limits of permeability as per relevant BS code or equivalent international code and specification with 20 mm nominal size graded aggregate for following grades. Watertightness is to be ensured including structural grouting if required.			
b	<b>C 30/37 grade</b>	CUM	1116.000	0.1478350%
D200	<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. (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	8	0.0004140%
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	63	0.0032590%
D203	Concrete of grade C12/15 as per BS EN-206 and BS 8500 or equivalent international standard (with 40 mm graded aggregate) as lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	246.000	0.0158960%
DD203	Concrete of grade C12/15 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) as lean concrete, leveling course, mud mat, under and around foundation/floors at any depth below finished floor level etc.	CUM	110.000	0.0063920%

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**SCH-3 : SERVICE**

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
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	7.000	0.0004680%
D205	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 <b>in foundations/substructure, grade slab, paving, drains, under floors</b> 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 <b>as per specification &amp; drawing for the following.</b>			
a	Grade C20/25	CUM	233.000	0.0172510%
b	Grade C25/30	CUM	382.000	0.0290860%
c	Grade C30/37	CUM	226.000	0.0176920%
D206	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 <b>in superstructure</b> at all level above 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 <b>as per specification &amp; drawing for the following.</b>			
c	Grade C30/37	CUM	1198.000	0.0941240%
DD211	<b>Encasing</b> of structural steel member with <b>concrete</b> as per BS EN-206 and BS 8500 or equivalent International code using nominal aggregate size of 12.5mm down. Encased member shall be wrapped with welded wire mesh/chicken wire mesh with proper lap etc. complete as per specification for the following grades. (Payment of welded wire mesh, chicken wire mesh shall be made separately)			
b	C20/25 grade	CUM	18.000	0.0012180%
DD212	<b>Screed concrete</b> conforming to relevant BS code or equivalent international code with coarse sand and graded hard stone aggregate 12.5mm/6 mm nominal size on the roof at any level or thickness, drains etc complete as per following.			
a	1:2:4 (1 part cement, 2 part sand, 4 parts of aggregate by volume)	CUM	39.000	0.0025200%
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 <b>in precast works</b> 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	8.000	0.0008140%
D214	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 <b>in water retaining/conveying structures</b> including addition of suitable plastisizer cum waterproofing cement additives conforming to BS 934 or equivalent international standard to achieve a slump more than 125 mm in concrete as per manufacturers recommendation and conforming to limits of permeability as per relevant BS code or equivalent international code and specification with 20 mm nominal size graded aggregate for following grades. Watertightness is to be ensured including structural grouting if required.			
b	<b>C 30/37 grade</b>	<b>CUM</b>	60.000	0.0059370%
	<b>Misc Concrete related work</b>			
216	<b>Chipping of concrete</b> 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	480.000	0.0017080%
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	144.000	0.0000410%
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	144.000	0.0024340%
	<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>			

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**TENDER NO - PSER:SCT:KLN-C1984:19**

**SCH-3 : SERVICE**

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
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	60458.000	2.1170970%
A302	<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>above finished ground floor level</b> for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies etc. for all heights including rubbing the concrete surface with carborundum stone to make smooth finish and providing 25mmx25mm chamfer at all exterior corners.	SQM	47310.000	1.8365100%
ISG 303	Providing ,fixing & removing curved type of shuttering including staging, propping (cost incl. of submitting supporting design & drawing and approval etc.) at all locations, heights and levels above or bellow ground with Slip Formwork complete as per specification and directions of engineer incharge.	SQM	32500	2.5232110%
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	1400.000	0.0253620%
b	Pockets of depths more than 150mm and upto 300 mm depth	Each	420.000	0.0138580%
c	Pockets of depths more than 300mm and upto 600 mm depth	Each	400.000	0.0249250%
	<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>			
401	Straightening, cutting, bending, placing in position at any level, binding of <b>mild steel reinforcements</b> conforming to Grade ASTM-Designation A615-80, grade: 40 / BST I (22/34) in concrete including cost of reinforcement and binding wire, labour, scaffolding, transportation to & from stores etc. all complete as per specifications & drawings.	MT	6.000	0.0060180%
402	Straightening, cutting, bending, placing in position at any level, binding in position of <b>steel reinforcements of grade B500B</b> conforming 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 STEEL SHALL BE SUPPLIED BY BHEL AS FREE OF COST AS PER TCC)</b>	MT	4835.000	2.5140430%
A405	Providing & fixing of Rebar in existing concrete surface by inserting reinforcement bar with Epoxy based suitable bonding compound of Hilti or equivalent make (HIT-RE-500 of Hilti or equivalent make) for interconnection of new R.C. structure with existing R.C. structure. Depth of drilled hole should be suitable to develop maximum recommended strength as per approved manufacturer's recommendation. This item includes supply of all materials including bonding chemicals, T&P required to execute the work, cost of all labour, transportation of chemical, staging to reach work place etc. all complete as directed by Engineer - in - Charge. Random Pull out non destructive test as directed by engineer shall be conducted to ensure strength of bond and same is included in this item. Reinforcement bar shall be paid separately under item no. 402 as applicable.			
a	12mm Reinforcement bar	EACH	20.000	0.0001420%
b	16mm Reinforcement bar	EACH	120.000	0.0013640%
c	20mm Reinforcement bar	EACH	120.000	0.0019410%
407	Straightening, cutting, bending, placing in position at any level, binding in position <b>high yield strength steel reinforcements</b> in <b>brickwork/Autoclave Aerated Concrete blocks</b> including cost of reinforcement and binding wire, labour, scaffolding etc. complete all as per specifications & drawings.	MT	20.000	0.0216020%
	<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>			
501	Providing and laying <b>underbed grading plaster with cement mortar 1:4</b> (1 cement : 4 sand) and average thickness of 15 mm including preparation of surface, batching, mixing, leveling etc. all complete.	SQM	8856.000	0.0762760%

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**TENDER NO - PSER:SCT:KLN-C1984:19**

**SCH-3 : SERVICE**

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
A502	Providing and laying <b>rigid insulation (extruded polystyrene blocks)</b> having maximum heat transmission coefficient of 0.45 W/(sqm K) as per relevant BS Code or equivalent international code in suitable panels over roofs and providing of expansion joint at intervals and filling with sealant in both directions as per the recommendation of manufacturer. The block shall be strong enough to withstand without deformation the workload and standard loads expected on the roof. Cost shall include making of fillets, cleaning & preparation of surface, expansion joints including filling with sealants at suitable intervals etc all complete as per specification for following. All insulation used should be CFC & HCFC free.			
a	Average 75 mm thickness	SQM	8856.000	0.2220230%
506	<b>Providing and applying PU based water proofing treatment with one coat of polyurethane</b> or any other equivalent material based primer with an application rate of minimum 6 sq.m per litre and <b>two successive liquid coatings of high solids content urethane pre-polymers</b> or equivalent material based finish coats as per relevant ASTM standards to form an elastomeric membrane with overall dry film thickness 1.5 mm subject to minimum 500 gm/sqm/coat application rate. Item includes surface preparation, polyscrim cloth /fabric, polymerised mortar base preparation etc all complete as per specifications and directions of engineer in charge.	SQM	8856.000	0.5253360%
507	<b>Providing and laying wearing course</b> consisting of <b>25mm thick plain cement concrete</b> (1 part cement, 2 part sand, 4 parts of aggregate by volume) with graded aggregate of 12.5mm size cast in panels of maximum size 1.2mx1.2m and reinforced with 0.56 mm dia. galvanised chicken wire mesh and sealing of joints (in grooves of 6mm X 6mm) using polysulphide compound etc all complete.	SQM	8856.000	0.2800360%
508	Providing and laying <b>cement concrete chequered flooring tiles</b> of 22 mm thickness and size 300x300 mm conforming to relevant BS or equivalent international code with 8 mm thick 1:4 cement mortar over the top most layer of roofing treatment in pathway or entire area with fine joints including sealing of joints (polysulphide sealant) and providing expansion gap in both directions filled up with polysulphide joint sealant, underbed (as per drawings) etc all complete. (Water proofing paid elsewhere) (including cost of cement for tiles making)	SQM	8856.000	0.3348250%
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	23943.000	0.4250230%
512	<b>Anti termite chemical treatment of soil</b> with Chloropyrifos emulsifiable concentrates (1%) conforming to relevant BS code or equivalent international code all complete.	SQM	400.000	0.0035580%
	<b>600 JOINTS AND FILLERS</b>			
	<b>Joints &amp; fillers including all labour, material, 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>			
601	Supplying & installation of <b>bitumen impregnated fibre board</b> conforming 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.			
a	12 mm wide joints.	SQM	40.000	0.0016130%
b	20 mm wide joints.	SQM	40.000	0.0023630%
c	25 mm wide joints	SQM	141.000	0.0109240%
d	50 mm wide joints	SQM	20.000	0.0027960%
601A	Supply and instalation of <b>Polystyrene flexible board</b> (CFC & HCFC free) conforming to relevant BS code or equivalent international code (min density 25Kg/Cum) as joint filler at joint of concrete including nailing, installation as per manufacturers instruction etc. all complete.			
c	25 mm wide joints	SQM	40.000	0.0002720%
603	Supplying and filling in position hot applied <b>bitumin sealing compound</b> 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.			
a	12mm X 25mm	RM	40.000	0.0001370%
b	20mmX25mm	RM	40.000	0.0001910%
c	25mmX25mm	RM	45.000	0.0003080%
d	50mmX25mm	RM	20.000	0.0001910%
605	Providing and sealing of joints with premium grade <b>silicon sealant</b> ( Silpruf of GE silicon or approved equivalent) conforming to relevant BS code or equivalent international code including cleaning of joints, raking out groove, joint filler tapes, application of primer, curing, scaffolding etc. all complete as per manufacturer's recommendation (The sealant should have VOC content limited to 250 grams per litre) for following size groove:			
a	25mmX25mm	RM	60.000	0.0023780%
b	50mmX25mm	RM	58.000	0.0044400%

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PRICE SCHEDULE, REV-01**

**PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP, AHP & MISC. WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER NO - PSER:SCT:KLN-C1984:19**

**SCH-3 : SERVICE**

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
602	Providing and applying <b>polysulphide based sealant</b> conforming to relevant BS code or equivalent international code in expansion joints in concrete including cleaning of joints, raking out groove, application of primer, scaffolding etc. all complete (The sealant should have VOC content limited to 250 grams per litre) for following size grooves:			
c	25mmX25mm	RM	298.000	0.0134720%
606	Providing and fixing <b>PVC water stops</b> in joints conforming to relevant BS code or equivalent international code all complete for the following:			
b	230 mm wide and 8 mm thick	RM	400.000	0.0107240%
c	150 mm wide and 6 mm thick	RM	40.000	0.0010720%
	<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	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	17.000	0.0295750%
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	18.000	0.1252990%
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	49.000	0.0545710%
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	262.000	0.2812990%
704	Fabricating, erecting and installing following items in concrete/brickwall for all kind of works, including setting material in concrete, layout, scaffolding, cutting, forming, grinding, drilling, bolting, welding, jointing, testing etc. all complete.			
a	MS pipes of all diameters	Quintal	40.000	0.0036890%
b	PVC pipes / conduits of all diameters	Quintal	46.000	0.0219560%
c	UPVC pipes / conduits of all diameters	Quintal	42.000	0.0194080%
e	Expansion fasteners (mechanical galvanised) of HILTI make or equivalent of safe tensile capacity as specified below for concrete work with expansion sleeve of stainless steel:			
iv	HST M16	EACH	96.000	0.0028420%
v	HST M20	EACH	40.000	0.0022760%
vi	HST M24	EACH	8.000	0.0005970%
f	Chemical Expansion fasteners (galvanised) of HILTI make or equivalent of safe tensile capacity as specified below for concrete work with anchoring rod,nuts,washers,chemicals all complete,etc:			
iv	HAS-E5.8 M16	EACH	20.000	0.0012260%
v	HAS-E5.8 M20	EACH	16.000	0.0016780%
vi	HAS-E5.8 M24	EACH	8.000	0.0011390%
	<b>800 GROUTING</b>			
	<b>Grouting including all labour, material (unless otherwise specified in BOQ/specification), equipment, roughening surface, cleaning, ramming, curing etc. at any level unless otherwise specified 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>			
801	Providing & grouting with <b>cement slurry mix</b> of approved ratio using <b>pressure pump</b> for water retaining concrete structures as per approved procedure including cost of nipples/ nozzles, cement, admixture, curing, pressure pumps, slurry agitator etc. all complete. Cost shall include fixing of nipples at maximum 500 mm centre to centre spacing, cutting of nipples after completing of grouting, making good of the nipple hole with appropriate non-shrink cement paste, water tightness test etc. all complete wherever specified in the drawing.	SQM	2320.000	0.1054440%
802	Providing & grouting of pocket holes, pipe sleeves under base plates, machinery, pipe supporting structures etc. with <b>mix 1:1 (1 cement :1 sand )</b> using non shrink admixture etc. all Complete.	CUM	72.000	0.1371330%

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**SCH-3 : SERVICE**

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
803	Providing & grouting of pocket holes, pipe sleeves and under base plate of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing etc. all complete with <b>mix 1:1:2</b> (1 cement : 1 coarse sand : 2 aggregate of 6 mm down graded stonechips ) using non shrink admixture. (Cost of all material and cleaning the pocket by compressed air shall be in the scope of the contractor).	CUM	108.000	0.1930040%
804	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing etc. all complete with <b>ConbextraGP-1 or equivalent</b> . (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor).	CUM	24.000	0.1214540%
805	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing, etc. all complete with <b>Conbextra GP-2 or equivalent</b> . (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor).	CUM	12.000	0.0607270%
<b>900 DOORS, WINDOWS, VENTILATORS, LOUVERS</b>				
<b>Doors (including master key system), windows, ventilators, louvers, roof ventilators, rolling shutters, partitions including all labour, material (unless otherwise specified in BOQ/specification), equipments, transportation, handling, preparation of working drawings etc. at any level as per specification, drawings, relevant laws of Bangladesh, relevant BS Standards or Bangladesh National building code or Equivalent International standards approved by BIFPCL/BHEL and as directed by engineer - in - charge.</b>				
904	Fixing <b>single or double steel door shutters</b> with <b>45mm thk flush design shutter</b> comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centres including void filled with mineral wool (density as per specification), all fittings, Godrej or equivalent make mortice lock with handle on both sides, shop and final painting etc all complete as per specification.	SQM	294.000	0.0123160%
908	Providing and fixing <b>steel windows/ventilator</b> with steel sections as per relevant BS code or equivalent international code including all fittings, metal beadings, hold fasts, shop and final painting ,glazing etc. all complete. (Glazing shall be paid separately)			
a	<b>openable type</b>	SQM	100.000	0.0112610%
b	<b>fixed type</b>	SQM	92.000	0.0077710%
A909	Providing and fixing <b>anodised aluminium work</b> of Jindal, Hindalco or other equivalent approved make for door frames,doors, windows, ventilators, partitions, railing etc with extruded standard tubular and other sections including all fittings & fixtures and accessories of approved make conforming to relevant BS standard or equivalent international standard anodised and electro color dyed to required shade according to relevant BS standard or equivalent international standard (minimum anodic coating of grade AC15), fixed with rawl plugs, expansion fasteners, SS screws or with fixing clips, including necessary filling of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt for bi-metallic protection etc.including preparation of working drawings, aluminium cleat angle, aluminium snap-on-beading for glazing/panelling, stair case tread nosing, with all fittings and fixtures (like tower bolts, handles, door stopper with rubber shoes, 'L' drops, stays, floor springs, hydraulic door closures etc.), CP brass/stainless steel screws, providing and fixing hinges/pivots, and making provision for fixing of fitting wherever required including cost of PVC/neoprene gasket, all complete as per drawing, specification and instructions of engineer in charge (Glazing and panelling shall be paid seperately).Weight of aluminium section only shall be measure.	Kg	60545.000	3.2095930%
A912	Fixing <b>pressed steel frames</b> fabricated from <b>16 gauge M.S sheet</b> mortised, reinforced drilled and tapped for hinges and locks bolts strikes, hold fasts adjustable floor anchors, floor tiles/weather bars, paintings etc all complete as per specifications.	Kg	1080.000	0.0021840%
913	Fixing in position <b>rolling shutter of hot rolled double dipped galvanised steel</b> double walled hollow sections interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs, top cover, primer & shop coats of approved enamel paint etc, all complete as per relevant BS code or equivalent international code and specification of approved make of following types: The bottom lath shall be coupled to a lock plate fabricated from 3mm thick galvanised steel plate and securely rivetted with stiffening angles.			
a	<b>Hand Operated</b>	SQM	64.000	0.0056390%
b	<b>Mechanically Operated</b>	SQM	51.000	0.0053850%
c	<b>Electrically operated</b> including Hand crank with continuous chain reel for emergency operation	SQM	128.000	0.0144150%
914	Providing and fixing solid core <b>PVC Frame with solid core PVC door Shutters (25 thk)</b> of sintex or equivalent make including all fitting & fixtures as per specification, drawing and instructions of engineer in charge.	SQM	56.000	0.0130000%
915	Providing, fixing and fitting of <b>glazing of first grade class</b> in steel/aluminium/wooden frames, where ever required, cleaning after fixing including hardware, gaskets, clips, beadings etc. all complete.			
c	5.5 mm thick clear float glass	SQM	400.000	0.0443020%

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e	6mm thick Polycarbonate sheet multi (twin) wall fire retardant and ultra violet resistant with sealed open edges.	SQM	5200.000	0.8101610%
f	4 mm thick ground glass	SQM	80.000	0.0082170%
hA	Two nos. 4 mm thick clear float glass hermetically sealed and separated by 16 mm thick air gap for thermal insulation (only single elevation area to be measured)	SQM	2826.000	0.5807320%
i	Two nos. 6 mm thick clear toughened glass hermetically sealed and separated by 12 mm thick air gap for thermal insulation (only single elevation area to be measured)	SQM	1211.000	0.3318570%
k	One outer 6mm thick reflective toughened glass and one inner 6mm thick clear toughened glass hermetically sealed and separated by 12 mm thick gap for thermal insulation (only single elevation area to be measured).	SQM	240.000	0.0716200%
A915	Providing and fixing G.I. Mosquito Net of 1.5mm x 1.5mm x 27 Gauge of any size, any shape, any color in steel/Aluminum/wooden frames, where ever required, cleaning after fixing including hardware, gaskets, clips, beadings etc. all complete as directed by Engineer -in - Charge. (Frame cost is excluded and shall be paid separately in other item).	SQM	60.000	0.0012590%
917	Providing and fixing <b>12 mm thick BWP particle board</b> , decorative veneer (prelaminated) on both sides, as panels in aluminium framed door shutter, fixed with necessary snap-on-beading etc. all complete (excluding aluminium works).	SQM	96.000	0.0108690%
<b>1000 BRICKWORK</b>				
<b>Brickwork masonry including all labour, material (unless otherwise specified in BOQ/specification), equipment, transportation, handling, scaffolding etc. at all levels 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>				
1001	Providing <b>brick work</b> in cement mortar 1:6 (1 part cement 6 parts coarse sand) in walls, chambers etc. in thickness varying from 230mm to 460mm at all depths, places and positions <b>below plinth</b> including raking out joints, curing, scaffolding etc. 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	120.000	0.0622460%
1001A	Providing masonry work with Autoclaved Aerated Concrete (AAC ) block (600 mm x 200 mm, thickness ranging from 100 mm to 200 mm and conforming to Category I of BS EN 771-4) in cement mortar 1:6 (1 part cement, 6 part sand of fineness 1.1) in walls, chambers etc. at all depths, places and positions <b>below plinth</b> including raking out joints, curing, scaffolding etc complete (excluding plastering and painting) complete as per relevant BS or equivalent international standards, drawings, specifications, manufacturer's recommendations.	CUM	40.000	0.0271580%
1001AA	Providing masonry work with Autoclaved Aerated Concrete (AAC ) block (600 mm x 200 mm, thickness ranging from 201 mm to 400 mm and conforming to Category I of BS EN 771-4) in cement mortar 1:6 (1 part cement, 6 part sand of fineness 1.1) in walls, chambers etc. at all depths, places and positions <b>below plinth</b> including raking out joints, curing, scaffolding etc complete (excluding plastering and painting) complete as per relevant BS or equivalent international standards, drawings, specifications, manufacturer's recommendations.	CUM	100.000	0.0691540%
1002	Providing <b>brick work</b> in cement mortar 1:6 (1 cement 6 coarse sand) in walls, chambers etc. in thickness 230mm at all heights, places and position <b>above plinth</b> including raking out joints, curing, scaffolding etc 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	1735.000	0.9918740%
1002A	Providing masonry work with Autoclaved Aerated Concrete (AAC ) block [600 mm x 200 mm, thickness ranging from 100 mm to 200 mm, maximum thermal conductivity of 0.18 W/(mK) and conforming to Category I of BS EN 771-4] in cement mortar 1:6 (1 part cement, 6 part sand of fineness 1.1) in walls, chambers etc. at all depths, places and positions <b>above plinth</b> including raking out joints, curing, scaffolding etc complete (excluding plastering and painting) complete as per relevant BS or equivalent international standards, drawings, specifications, manufacturer's recommendations.	CUM	404.000	0.2921230%
1002AA	Providing masonry work with Autoclaved Aerated Concrete (AAC ) block [600 mm x 200 mm, thickness ranging from 201 mm to 400 mm, maximum thermal conductivity of 0.18 W/(mK) and conforming to Category I of BS EN 771-4] in cement mortar 1:6 (1 part cement, 6 part sand of fineness 1.1) in walls, chambers etc. at all depths, places and positions <b>above plinth</b> including raking out joints, curing, scaffolding etc complete (excluding plastering and painting) complete as per relevant BS or equivalent international standards, drawings, specifications, manufacturer's recommendations.	CUM	2786.000	2.1025910%
1003	Providing <b>brick work</b> in cement mortar 1:4 (1 cement 4 coarse sand) in <b>partition walls</b> , chambers etc. in thickness 115mm at all heights, places and position above or below plinth/graded level including raking out joints, curing, scaffolding etc complete excluding plastering and painting as per specification.			
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>	SQM	336.000	0.0239120%
1004	Providing <b>brick soling</b> including spreading of earth, ramming, watering including 25mm thick cushion of sand complete but excluding excavation and disposal of surplus earth (excavation and disposal of surplus earth shall be measured under applicable item). <b>Using brick on edge.</b>			
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>	SQM	228.000	0.0126490%

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1005	Providing <b>brick soling</b> including spreading of earth, ramming, watering including 25mm thick cushion of sand complete but excluding excavation and disposal of surplus earth (excavation and disposal of surplus earth shall be measured under applicable item.).- <b>Using flat bricks.</b>			
c	Using <b>burnt clay bricks</b> as per relevant BS code or equivalent international code with crushing strength of 75 Kg/cm2	SQM	100.000	0.0033280%
1006	<b>Breaking</b> of existing brick <b>work</b> at all levels including plastering, removing the rubbish up to a distance of 500 m including transportation, loading, unloading etc. all complete as directed by the engineer.	CUM	12.000	0.0009020%
1006A	<b>Breaking</b> of existing masonry <b>work of autoclave aerated concrete blocks</b> at all levels including plastering, removing the rubbish up to a distance of 500 m including transportation, loading, unloading etc. all complete as directed by the engineer.	CUM	12.000	0.0009460%
1007	Providing and <b>encasing</b> of structural steel member with <b>brick masonry work</b> around flanges, webs etc. and filling the gap between steel and masonry by minimum 12mm thick mortar. Encased member shall be wrapped with chicken wire mesh with 50mm lap etc. complete as per specification. (Chicken wire mesh to paid separately)	CUM	20.000	0.0110070%
1007A	Providing and <b>encasing</b> of structural steel member with <b>autoclave aerated concrete block masonry work</b> around flanges, webs etc. and filling the gap between steel and masonry by minimum 12mm thick mortar. Encased member shall be wrapped with chicken wire mesh with 50mm lap etc. complete as per specification. (Chicken wire mesh to paid separately)	CUM	20.000	0.0115570%
1008	Providing and laying 75 mm thick bed of <b>dry brick aggregate</b> including of excavation, disposal of surplus earth spreading of earth, ramming, watering etc. complete in all respects as directed by the engineer.	SQM	40.000	0.0006240%
1009	<b>Making openings</b> in existing brick wall or partition wall including making good the broken edges/surface with cement mortar etc. complete.	CUM	4.000	0.0003580%
1009A	<b>Making openings</b> in existing masonry work of autoclave aerated concrete blocks in wall or partition wall including making good the broken edges/surface with cement mortar etc. complete.	CUM	4.000	0.0003760%
1010	Supply and placing in position <b>mild steel wire fabric</b> of square mesh 25 mm size and wire diameter of 2 mm for encasing of steel sections in brick/autoclave concrete blocks/concrete including cutting, bending, fixing etc. complete.	SQM	400.000	0.0037360%
1011	<b>Filling existing brick wall/ partition wall opening</b> at all level including making good the broken edges/surface with cement mortar, painting, finishing to match with existing finishing, scaffolding/supporting at any level, removal of debris upto a lead of 1 km including loading, unloading, transportation etc. all complete.	SQM	20.000	0.0015190%
1011A	<b>Filling existing autoclave aerated concrete wall/ partition wall opening</b> at all level including making good the broken edges/surface with cement mortar, painting, finishing to match with existing finishing, scaffolding/supporting at any level, removal of debris upto a lead of 1 km including loading, unloading, transportation etc. all complete.	SQM	20.000	0.0015870%
1012	Providing and filling brick bats in soak pits all complete.	CUM	12.000	0.0012630%
	<b>1100 DAMP PROOF COURSE</b>			
	<b>Damp proof course including all labour, material (unless otherwise specified in BOQ/specification), equipment, transportation, handling, shuttering, centering, curing 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>			
1101A	<b>Providing Damp Proof Course 40mm thick 1:1.5:3 concrete</b> (10mm and down graded aggregate) with 2% of approved admixture of water proofing compound all complete. Two layers of hot bitumen coating conforming to BS 6398 or equivalent international code shall be applied one before & one after the DPC.	SQM	785.000	0.0306000%
	<b>1200 CEMENT MORTAR PLASTER</b>			
	<b>Cement mortar plaster including making grooves wherever required including all labour, material (unless otherwise specified in BOQ/specification), scaffolding, curing 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>			
1201	Providing <b>18mm thick plaster</b> in two layers <b>outside</b> the building/boundary wall in cement <b>mortar 1:6</b> on walls, finished to a smooth finish including providing 3mmx3mm size grooves at junctions of two dissimilar materials all complete.	SQM	18002.000	0.2897160%
1202	Providing <b>12mm thick plaster inside</b> the building/boundary wall in cement <b>mortar 1:6</b> on walls finished to a smooth finish as per specification all complete.	SQM	19029.000	0.2146790%
1204	Providing <b>6mm thick plaster on ceiling in cement mortar 1:4</b> finished to a smooth all complete.	SQM	15532.000	0.1526170%
1207	<b>Forming groove</b> of uniform size from 12X12 mm upto 25X15 mm in plastered surface as per approved pattern, using wooden battens nailed to the under layer, including removal of wooden battons, repair of the edges of plaster panel and finishing the groove etc. complete as per specification, drawing and the instructions of engineer in charge.	RM	3080.000	0.0054800%

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1208	Providing <b>drip coarse</b> on plastered surface at all elevations for all type of work such as chajjas, parapet, projections etc. including scaffolding, finishing etc. complete with all labour, tools and plants as per specification, drawing and instructions of engineer in charge.	RM	512.000	0.0009110%
<b>1300 FINISHES TO CONCRETE / PLASTERED SURFACES</b>				
<b>Finishes, painting to concrete, plastered surfaces including all labour, material (unless otherwise specified in BOQ/specification), equipment, surface preparation, scaffolding etc. at any level as per relevant laws of Bangladesh, relavant BS Standards or Equivalent International standards approved by BIFPCL/BHEL, specification, drawings and as directed by engineer - in - charge.</b>				
1304B	Two or more coats of <b>acrylic distemper</b> of approved brand and manufacture to give an even shade including a priming coat with distemper primer complete.	SQM	27490.000	0.1522880%
1305	Providing and applying two or more coats of <b>acrylic emulsion paint</b> of approved brand, shade and manufacture to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface as per manufacturers guideline.	SQM	3141.000	0.0250210%
1306	Providing and applying 2 or more coats of chlorinated rubber <b>acid/alkali resistant paint</b> of approved brand and colour to floors, walls and ceiling including preparation of surface to receive paint, providing and applying chlorinated rubber zinc phosphate primer, complete all as per manufacturer's recommendations and as approved by engineer, at all heights above or below grade level, inclusive of intermediate coat of titanium dioxide/micaceous iron oxide complete as per specifications.	SQM	418.000	0.0075550%
1310B	Providing and applying clear silicon water repellent of approved make on concrete surface at all heights including material, labour, scaffolding, curing etc including primer coat complete as per specification.	SQM	600	0.0145810%
1312A	Providing and applying 2 mm thick <b>polymer based water resistant putty (wall putty) on walls</b> including preparation of surface, staging, etc. to achieve a smooth even surface all complete as per specification and as directed by Engineer.	SQM	16672.000	0.0970780%
1313	Providing and applying ready made <b>Epoxy Paint</b> over areas other than steel structure with suitable pigments of approved shade as per specification and direction of Engineer. The epoxy paint shall be a two pack material and shall be resistant to water, splash, spillage & acidic environment. The epoxy paint coating shall be of 150micron thickness over epoxy primer.	SQM	1712.000	0.0403590%
1315	Providing and applying two or more coats of <b>Acrylic based weather coat paint</b> of approved brand and manufacture and required shade over one coat of primer after necessary cleaning/ washing, preparing the surface using coir brush/ wire brush, sand paper, including filling of cracks with putty wherever required etc. all complete to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface as per manufacturers guidelines. The final finished coating shall be fungus resistant, UV resistant, water repellent and extremely durable with color fastness as per specification.	SQM	18002.000	0.1630560%
1316	One coats of <b>cement wash (minimum 2 Kg cement mixed with 1 liter of water)</b> of approved brand and manufacture to give an even shade including a priming coat as per specifications.	SQM	2800.000	0.0163040%
A1317	Providing and applying french polish (minimum 2 coats) on wood surface made from best quality shelac, denatured spirit and other suitable alcohol soluble ingredients and made by a well known approved manufacturer including required base preparation etc. all complete as per specification	SQM	44.000	0.0005640%
<b>1400 FLOORING AND SKIRTING</b>				
<b>Flooring and skirting at any level including base layer, labour, material (unless otherwise specified in BOQ/specification), equipments, transportation, handling, curing, polishing etc. at any level as per relevant laws of Bangladesh, relavant BS Standards or Equivalent International standards approved by BIFPCL/BHEL, specification, drawings and as directed by engineer - in - charge.</b>				
1401	Providing and laying 50 mm thick <b>heavy duty cement concrete in flooring</b> with <b>metallic hardener pigmented topping</b> 12mm thick uniform graded treated iron particles in flooring. Under layer of 38mm thick cement concrete mix 1:2:4 (1 cement: 2 sand : 4 stone aggregates 12.5mm well graded) and top layer of 12mm thick metallic concrete of mix 1:2 (1 cement hardner mix with approved quality metallic hardening compound :2 stone aggregate 6mm nominal size) by volume including cement slurry, rounding off edges, aluminium strips etc. all complete for following (Quoted item rate shall be inclusive of providing glass joint strips):	SQM	31762.000	1.7556800%
1402	Providing and laying 25 mm thick heavy duty cement concrete mix 1:2:4 (1 cement: 2 sand : 4 stone aggregates ) flooring with metallic hardener pigmented topping of 10 mm thick uniform graded treated iron particles in skirting and dado. Under layer of 15mm thick cement concrete mix 1:2:4 (1 cement: 2 sand : 4 stone aggregates 12.5 mm well graded) and top layer of 10mm thick metallic concrete of mix 1:2 (1 cement hardner mix with approved quality metallic hardening compound :2 stone aggregate 6mm nominal size) by volume including cement slurry, rounding off edges, aluminium strips etc. all complete as per specification. (Quoted item rate shall be inclusive of providing glass joint strips).	SQM	379.000	0.0131800%

**VOLUME-III  
PRICE SCHEDULE, REV-01**

**PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP, AHP & MISC. WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.**

**TENDER NO - PSER:SCT:KLN-C1984:19**

**SCH-3 : SERVICE**

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
1403	Providing and laying <b>precast polished heavy duty cement concrete tiles (Carborundum topping pigment content is 3.5 kg per 50 kg of cement)</b> of size 300X300X25 thick of approved shade as per relevant BS or equivalent international code including minimum 20 mm cement mortar bedding of 1:3 (1 cement : 3 sand) jointed with neat cement slurry @4.4 kg/sqm labour, material etc. all complete with pigment to match the shade of the tiles including rubbing, curing, grinding and polishing complete with laying as per relevant BS or equivalent international code etc. all complete for following:			
a	Laid in floors	SQM	400.000	0.0656680%
b	Laid in skirting	SQM	26.000	0.0046460%
1404	Providing and laying <b>interlocking C25/30 Grade concrete blocks</b> in paving with approved colour and pattern including jointing sand, bedding layer of sand (35 mm thick) as per specifications and recommendations of manufacturer inclusive of cost of cement for paver manufacturing.			
b	<b>80 mm</b>	SQM	40.000	0.0022810%
1412	Providing and laying 18-20mm thick <b>polished Granite stone</b> of approved color and texture in flooring with brass/ stainless steel strips. Under bed shall average 30mm thk of 1 cement : 2 sand : 4 stone aggregate by volume and brought to proper level. The granite stone slabs/tiles laid over under bed, pressed and tapped down with wooden mallet to the proper level, lifted and pressed again with thick cement slurry @3.3 kg/sqm spread over the surface with fine joint finished including pigments, curing, grinding, granite polishing etc. all complete.	SQM	108.000	0.0318270%
1414	Providing and laying polished Granite stone 18-20mm thk in skirting and dado with 6mm thick projection from adjacent plaster minimum 12 mm thick cement mortar bedding of 1:3 (1 cement : 3 sand) with thick cement slurry @3.3kg/sqm spread over the surface with fine joint finished including cutting brickwall upto the required depth, edging, finishing etc. all complete. including mortar ,cement slurry ,pigments, curing, grinding,moulding, granite polishing etc. all complete.	SQM	8.000	0.0023040%
1416	Providing and laying <b>vitrified ceramic tiles of polished variety</b> from reputed / approved manufacturer, complete including epoxy grout, underbed of cement mortar 1:3 minimum 20mm thick underbed for flooring and 12mm thick underbed for dado/skirting with neat cement slurry @3.3Kg/sqm etc. all complete for following			
a	600x600x10 mm thick tiles In flooring	SQM	350.000	0.0514730%
b	600x600x10mm thick tiles In skirting and dado upto specific height	SQM	35.000	0.0051300%
c	300x300X7 mm thick tiles In flooring	SQM	112.000	0.0153800%
d	300x400x7mm thick tiles In skirting and dado upto specific height	SQM	484.000	0.0662090%
1417	Providing and laying <b>vitrified ceramic tiles of matt finish</b> from reputed / approved manufacturer including epoxy grout, underbed of cement mortar 1:3 minimum 20mm thick underbed for flooring and 12mm thick underbed for dado/skirting with neat cement slurry @3.3Kg/sqm etc. all complete for following			
c	300x300X7 mm thick tiles In flooring	SQM	1001.000	0.1131320%
1419	Providing and laying granite stone slab of 20mm thickness single piece for wash basin / sink slab /facia of black or approved colour including 20mm underbed of cement mortar 1:3 with cutting,making corners,moulding and opening etc. all complete.	SQM	22.000	0.0073010%
1422	Providing & fixing <b>Acid / Alkali resistant (Chemical resistant) tiles</b> conforming to relevant BS or equivalent international code in <b>flooring/Dado</b> and shall be laid over bitumastic lining of min 12mm thick ( to be laid in layers of 6mm each). The tiles shall be applied with 6mm thick Potassium Silicate bedding mortar as per relevant BS or equivalent international code and including preparation of surface, application of bitumen primer, curing etc. all complete for following thicknesses. The tiles should be abrasion resistant & durable.			
a	20mm thick	SQM	504.000	0.0945010%
1427	Providing and fixing <b>glazed ceramic tiles of approved color and design of size 200x300mm / 300x300mm / 300x400mm in dado of approved size</b> , projecting 6mm uniformly from adjacent plaster or wall finish. The mix for 20 mm thick underbed plaster shall consist of 1part cement and 3 parts sand by weight. fairly moist but firm, tiles shall be pressed over under bed by applying cement slurry @3.3 kg/sqm including pigments, curing etc all complete for following thicknesses:			
b	7mm thick	SQM	106.000	0.0080200%
1428A	Providing and laying <b>2 mm thick antistatic PVC flooring / skirting</b> of approved shade,as per relevant BS or equivalent international code and laying as per relevant BS or equivalent international code all complete.	SQM	260.000	0.0058240%
1428B	Providing and laying <b>6.5 mm thick heavyduty PVC tiles in flooring / skirting</b> of approved shade,as per relevant BS or equivalent international code and laying as per relevant BS or equivalent international code all complete.	SQM	146.000	0.0081650%
1429	Providing and fixing <b>removable type flooring system</b> consisting of <b>fire resistant particle board</b> of size 600X600X35 mm with 0.05 mm thick aluminium foil lining at bottom and with 2 mm thick anti static PVC topping including proprietary floor supporting system complete as per specification.	SQM	480.000	0.1006370%
1430	Providing and fixing <b>dividing strips</b> in joints of cast in situ floorings at various elevations, finishing, all labour, material etc. complete as per drawing, specification and instructions of engineer in charge.			

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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
a	Glass strips 40 mm wide and minimum 6 mm thick.	RM	379.000	0.0030340%
1432	Providing and laying Epoxy screed (trowel applied minimum 5 mm thick) and epoxy seal coat in flooring/skirting of approved shade, as per relevant BS or equivalent international code and laying as per relevant BS or equivalent international code all complete.	SQM	1031.000	0.0947190%
	<b>1600 FALSE CEILING</b>			
	<b>False ceiling including all labour, material (unless otherwise specified in BOQ/specification), equipment, transportation, handling, suspension system 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>			
1601	Providing and fixing <b>glass fibre reinforced gypsum plaster board (GRG) ceiling</b> (having gypsum core mixed with glass fibre) system consisting of metal supporting grid system forming panels of specified size, suspended from RCC slab/structural steel or catwalkway grid above with 4 mm (minimum) galvanised wires (rods) with special height adjustment clips, including preparation of working drawing, providing openings for AC ducts, return air grills, light fixtures etc (but excluding the cost of catwalkway grid) all complete as per drawings, specification and instructions of the engineer. The false ceiling should have minimum noise reduction factor of 0.5.			
a	12 mm thick GRG board with galvanised light gauge steel load bearing supporting GI frame and finished flat (seamless).	SQM	595.000	0.0263210%
1603	Providing and fixing <b>permanently colour coated aluminium false ceiling</b> of approved colour and <b>Luxalon 84 C</b> or approved equivalent with corrosion resistant aluminium alloy panels of minimum thickness 0.5mm including 50mm thick mineral wool insulation(density 48 kg/cum) conforming to relevant BS or equivalent international code bound in polythene bags on top of panels. Additional hangers and height adjustment clips shall be provided for return air grills, light fixtures, A.C. ducts etc all complete. Suitable M.S. channel grid shall also be provided above the false ceiling level for movement of personnel to facilitate maintenance of lighting fixtures, AC ducts etc. ( Materials for structural platform grid made up of MS Channels/ Beams / Angles shall be supplied by BHEL and shall be paid under ST No 2301) The false ceiling should have minimum noise reduction factor of 0.5.	SQM	80.000	0.0167210%
	<b>1700 RAIN WATER DOWN TAKE PIPES</b>			
	<b>Rain water down take pipes including all labour, material (unless otherwise specified in BOQ/specification), transportation, 2 coats of approved paint over one primary coat, fixtures, accessories 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>			
1705	<b>Providing and fixing UPVC down take pipes of 110mm diameter-</b> Class C as per BS 3505:1986 or equivalent international code all complete.	RM	68.000	0.0020870%
1706	<b>Providing and fixing UPVC down take pipes of 160mm diameter-</b> Class C as per BS 3505:1986 or equivalent international code all complete.	RM	2738.000	0.1194600%
1707	<b>Providing and fixing GI down take pipes</b> conforming to relevant BS code or equivalent international code of medium duty all complete for following diameters.			
b	150 mm Dia	RM	200.000	0.0276500%
c	200 mm Dia	RM	120.000	0.0207390%
1708	<b>Providing and fixing HDPE down take pipes</b> conforming to relevant BS code or equivalent international code as per specification of following diameters.			
a	110 mm Dia	RM	0.000	
b	160 mm Dia	RM	280.000	0.0107670%
	<b>1800 MISCELLANEOUS WORKS</b>			
	<b>Miscellaneous works including all labour, material (unless otherwise specified in BOQ/specification), equipment etc. at any level unless otherwise specified 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>			
1801	<b>Providing and Filling in trenches, plinths, area paving and other underground structures with graded stone aggregate of size range 63 mm to 45 mm</b> in layers not exceeding 230 mm in thickness including breaking of stone boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts etc. all complete. Payment shall be made for the measurement of the volume of the compacted fill.	CUM	74637.000	18.1383390%
1803	Anti termite chemical treatment of soil with <b>Chlorpyrifos/Lindane E.C. 20% with 1% concentration</b> conforming to relevant BS code or equivalent international code all complete. (Plinth area of building at ground floor only shall be measured for payment)	SQM	8743.000	0.0781310%

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1810	Laying and fixing <b>rails and guide rails in concrete</b> for transformer, rail track including cutting of rails, joining of rails, anchoring lugs etc all complete.	MT	28.000	0.0564170%
A1812	Laying of <b>earthing mats/rods of "tinned copper" or "steel rod cladde /bonded with copper" (excluding laying inside concrete members)</b> including risers, transportation from yard stores, loading, unloading, cutting to length, thermo welding/brazing, protective painting of joints etc. all complete. (Excavation & Back filling shall be paid separately under respective item of earth work. Earthing mats/rods shall be supplied by BHEL free of cost)	MT	4	0.0023810%
AA1812	Laying of <b>earthing mats/rods of "tinned copper" or "steel rod cladde /bonded with copper" inside concrete members (pile, pile cap, pedestals, columns, slabs, beams etc.)</b> including risers, transportation from yard stores, loading, unloading, cutting to length, thermo welding/brazing, connection to reinforcement by GI wire (supply of GI wire included in the item), protective painting of joints etc. all complete. (Excavation & Back filling shall be paid separately under respective item of earth work. Earthing mats/rods shall be supplied by BHEL free of cost)	MT	8	0.0051280%
1813	Providing <b>Earthing pit</b> as per drawing with charcoal & salt, GI pipes, GI earth electrodes, GI wire, GI strips, brick chamber with covers including associated earthwork etc. all complete.	EACH	40.000	0.0971340%
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	1120.000	0.0065670%
1826	Supply and laying approved quality rounded pebbles / gravels of 40mm size in transformer yards.	CUM	1114.000	0.3750510%
ISG 1837	Providing, loading, transporing, unloading and laying 500 micron HDPE Liner for Stock pile area.	SQM	210000.000	1.2992110%
ISG 1839	Supplying and filling clay of high plasticity including spreading, watering, ramming/ compaction by manual/ meachanical means, dressing, royalty (if any) etc. all complete.	CUM	33600.000	0.3573260%
ISG 1840	Providing, loading, transporting, unloading and laying & compaction of 300 mm thick minor quality coal in stock pile area.	CUM	50400.000	13.9988740%
ISG 1841	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 including carriage, spreading & consolidation of blinding material etc all complete as per specification.	CUM	42000.000	13.2196860%
<b>2000 FENCING AND GATES</b>				
<b>Fencing and gates including all labour, material (unless otherwise specified in BOQ/specification), equipment etc at any level as per relevant laws of Bangladesh, relavant BS Standards or Equivalent International standards approved by BIFPCL/BHEL, specification, drawings and as directed by engineer - in - charge.</b>				
2001	Supplying and erecting in position <b>1.8 m high PVC coated gavanised chain linked fencing</b> of minimum <b>8 gauge</b> (including PVC coating ) of mesh size 75mm x 75mm. The diameter of the hot dip galvanised steel wire for chain link fencing excluding PVC coating shall not be less than <b>12 gauge</b> . <b>GI barbed wire fencing of height of 600 mm</b> conforming to relevant BS code or equivalent international code at top of chain link fencing shall be provided with 3 strands of barbed wire hot dip galvanised wire of 12G comprising of 2 ply of wires with barbs of 16G spaced at 100mm. Cost to include for GI hook bolts, rings & washers, hot dip galvanised tension wires, line wires, 25X6 mm GI flat stretcher bar at end posts, accessories, connection to posts etc. all complete. (Post shall be paid separately)	RM	422.000	0.0387870%
2008	Supply, fabrication and fixing of mild steel posts for fencing including painting etc all complete.	MT	8.000	0.0480160%
2009A	Installing in position and testing <b>PVC coated galvanised MS Gates</b> out of rectangular hollow sections, channels, joists, angles, flats, plates, pipes including stiffners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, bronze aluminium ball bearing arrangements, castor wheels etc. all complete (mesh & barbed wire to be paid seperately uner item no 2001).	MT	6.000	0.0110700%
<b>2100 WATER SUPPLY</b>				
<b>Water supply work including men, material (unless otherwise specified in BOQ/specification), equipment etc. at any level as per relevant laws of Bangladesh, relavant BS Standards or Equivalent International standards approved by BIFPCL/BHEL, specification, drawings and as directed by engineer - in - charge.</b>				
2101	Providing and fixing in position tested heavy duty type <b>chromium plated (CP) brass long neck bib cocks</b> including sockets, union, nuts etc all complete - <b>Nominal size 1/2</b>	EACH	48.000	0.0037890%
2102	Providing and fixing in position heavy duty <b>brass stop cock</b> of approved quality including all specials etc all complete - <b>Nominal size 1/2</b>	EACH	48.000	0.0024920%

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2104A	Providing and fixing <b>uPVC pipes</b> conforming to BS:3505 pipes shall be concealed, <b>complete for internal works</b> with sockets, unions, elbows, tees, nipples etc conforming to BS 4346 or equivalent and clamps including cutting and making good the walls etc all complete for following sizes:			
a	Nominal size 1/2	RM	368.000	0.0026340%
b	Nominal size 3/4	RM	192.000	0.0018400%
c	Nominal size 1	RM	125.000	0.0014960%
d	Nominal size 1 1/4	RM	256.000	0.0036850%
e	Nominal size 1 1/2	RM	184.000	0.0030950%
2105A	Providing and fixing <b>uPVC pipes conforming to BS:3505 for external work</b> with sockets, unions, elbows, tees, nipples etc conforming to BS 4346 or equivalent including trenching & refilling etc all complete for following sizes:			
a	Nominal size 1/2	RM	96.000	0.0006870%
b	Nominal size 3/4	RM	144.000	0.0013800%
c	Nominal size 1	RM	192.000	0.0022980%
d	Nominal size 1 1/4	RM	672.000	0.0096740%
e	Nominal size 2	RM	336.000	0.0064400%
f	Nominal size 3	RM	288.000	0.0069060%
2106	Providing and fixing <b>700mmx500mmx6mm thk mirror</b> from reputed mirror manufacturer. Mirror shall be mounted with glass adjustable revolving CP brackets with CP screws etc all complete.	EACH	22.000	0.0014230%
2107	Providing and fixing <b>700mmx127mmx6mm thk clear glass</b> with C.P Guard rails and mounted on C.P. brackets etc all complete.	EACH	19.000	0.0014500%
2108	Providing and fixing 25 mm diameter <b>stainless steel towel rails</b> (600mm X 25mm) with CP mounting brackets all complete.	EACH	22.000	0.0010980%
2111	Providing and fixing stainless steel / C.P. <b>liquid soap dispenser</b> . Dispenser shall be round and easily revolving with removable threaded nozzle and mounted on C.P. brackets etc all complete.	EACH	22.000	0.0014650%
2112	Providing and fixing glazed vitreous wall mounted <b>paper holder</b> with suitable cover cum cutter fitted with CP screws etc. all complete.	EACH	22.000	0.0007490%
2113	Providing and fixing <b>chromium plated brass shower</b> rose 100 mm dia with 15 or 20 mm inlet dia all complete.	EACH	3.000	0.0001270%
2114	Providing & fixing in position UV resistant <b>glass-fibre reinforced polyethylene water tank</b> conforming to relevant BS or equivalent international code including making all necessary inlet & outlet pipes, fixture, ball cocks, valves, visible outside water level gauge etc all complete as per specification for following capacities . Pipes shall be paid separately under ST No. 2105A.			
aA	500 liters capacity	EACH	10.000	0.0052700%
a	1000 litres capacity	EACH	2.000	0.0021080%
ISG 2118	Supply and laying in soil Geo Textile(1.8mm thickness) , wrapping the drain, including pipe, which will act as filter medium, and avoiding the fine particles being washed in to the drains.	SQM	7536.000	0.0234640%
	<b>2200 SANITARY WORKS</b>			
	<b>Sanitary work including all labour, material (unless otherwise specified in BOQ/specification), equipment 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>			
2201	Supply and fixing <b>glazed vitreous china Wash Basin (minimum size 580x450 mm)</b> conforming to relevant BS code or equivalent international code of approved shape with R.S. or C.I. brackets painted white, nominal size 1/2 chromium plated brass hot & cold mixing faucets with nylon washers, chromium plated brass chain with rubber plug, nominal size 1 1/4 chromium plated brass bottle trap and waste of standard pattern, nominal size 1 1/4 dia chromium plated brass trap unions, plastic connection pipe with chromium plated nuts, fittings, cutting and making good the walls where required etc all complete.			
a	White	EACH	22.000	0.0085170%
2202	Providing and fixing approved vitreous china <b>laboratory sink of size 600x400x200mm conforming to</b> relevant BS code or equivalent international code with R.S. or C.I. brackets, chromium plated brass chain with rubber plug nominal size 1 1/2, CP brass waste and nominal size 1 1/2 CP brass trap with necessary union complete including painting the fittings, cutting and making good the wall where required etc. all complete.	EACH	6.000	0.0014310%
2204	Providing and fixing <b>colour glazed vitreous china European type water closet conforming to</b> relevant BS code or equivalent international code with siphon, open front solid plastic seat and plastic cover, low level 12.5 litre PVC flushing cistern (same colour as WC) with valveless fittings, hand spray with angle valve and hand trigger, 100 cm long hose, toilet roll holders, necessary C.P connections etc all complete.			
a	Floor mounted	EACH	11.000	0.0081780%
b	Wall mounted	EACH	11.000	0.0088770%
2205	Providing and fixing <b>colour glazed vitreous asian squatting (minimum 500x400mm) water closet</b> conforming to relevant BS code or equivalent international code with all fittings including foot rests, low level 12.5 litre PVC flushing cistern with valveless fittings, hand spray with angle valve and hand trigger, 100 cm long hose, toilet roll holders, necessary C.P connections etc all complete.	EACH	11.000	0.0043980%

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2206	Providing and fixing colour <b>flat back glazed vitreous china urinals</b> of size 440x265x355 mm with photo voltaic control flushing system as per relevant BS code or equivalent international code with flush pipes, lead pipes, gratings, traps and necessary C.P. fittings etc. all complete.	EACH	22.000	0.0120420%
2207	Supply, laying and jointing UPVC pipes conforming to BS EN 13476 or equivalent international code including bends, branches and all other necessary fittings, M.S holder bats/clamps, cutting and making good the walls and floors, jointing, testing etc all complete for following.			
b	110mm dia pipes	RM	280.000	0.0088770%
c	160mm dia pipes	RM	224.000	0.0089310%
d	200mm dia pipes	RM	10144.000	0.6115840%
2208	Providing, laying light duty non pressure <b>RCC pipes</b> conforming to BS 5911 (equivalent to NP3 class) with collars jointed with stiff mixture of cement mortar including testing of joints etc all complete for following.			
a	200mm dia	RM	91.000	0.0058540%
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.			
b	300mm dia	RM	64	0.0077070%
c	450mm dia	RM	60	0.0100810%
b	600mm dia	RM	100	0.0245330%
e	900mm dia	RM	240	0.1006960%
2209	Providing, laying light duty non pressure <b>RCC pipes</b> conforming to BS 5911 (equivalent to NP2 class) with collars jointed with stiff mixture of cement mortar including testing of joints etc all complete for following.			
a	150mm dia	RM	320.000	0.0142330%
2211	Providing and fixing <b>C.I Manhole heavy duty cover of size 600mmx450mm</b> including frame from reputed manufacture etc. all complete.	EACH	43.000	0.0098150%
2212	Providing and fixing <b>circular heavy duty C.I. manhole cover of 600 mm dia</b> with frame etc. all complete.	EACH	22.000	0.0046090%
2215	Providing and fixing C.I. floor traps size 100 mm Inlet and 100 mm Outlet Sand Cast Iron S&S as per relevant BS code or equivalent international code with C.P jalli all complete.	EACH	48.000	0.0032610%
2219	Providing and fixing white/colored vitreous <b>urinal partitions</b> of size 675x325x85mm all complete.	EACH	11.000	0.0011330%
2220	Providing and fixing eye and face drinking water fountain (combined unit with receptacle conforming to relevant BS code or equivalent international code) all complete as per specification.	EACH	8.000	0.0101710%
<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	12372.000	0.0395220%
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	1600.000	0.3726590%
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	4240.000	1.3345590%
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	1300.000	0.0578240%

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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 against supply of cement by contractor]</b>			
A2412A	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	350.000	0.0107840%
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	74.000	0.0256350%
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	167.000	0.0852070%
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>			
C2412A	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	5946.000	0.0259210%
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	1258.000	0.1452810%
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	2839.000	0.2895210%
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>			
D2412A	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	700.000	0.0023210%
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	148.000	0.0076600%

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**SCH-3 : SERVICE**

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
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	334.000	0.0254310%
<b>REINFORCEMENT</b>				
2420A	Straightening, cutting, bending, placing 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	24.000	0.0075820%
2423A	Supplying & installation of <b>bitumen impregnated fibre board</b> conforming 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 <b>for construction of Road/ Drain</b>			
b	20 mm wide joints.	SQM	140	0.0082710%
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	4840.000	0.0166350%
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	15180.000	0.0165730%
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/cm2	CUM	148	0.0606890%
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	100.000	0.0053170%
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	6	0.0005280%
2500	<b>PILING WORK: Piling works including all labour, material (unless otherwise specified in BOQ/contract specification), equipment etc. as per specification, drawings and as directed by engineer - in - charge.</b>			
2516	Design, supplying, installing of sheet pile for earth protection around foundation as per accepted scheme including material, labour, equipment, consumable etc. all complete complying all safety norms and removal of sheet pile after completion of foundation work. this item to be executed after approval of execution scheme by BHEL Engineer. <b>[mode of measurement : Area shall be calculated on the basis of exposed sheet pile area above founding level inside excavated pit]. Payment shall be made 70% after installation and 30% after removal of sheet pile.</b>	SQM	1000	0.7561550%
<b>MISCELLANEOUS</b>				
3001	Total lump sum price for the <b>SERVICES PART of Solid waste managment plant</b> comprising of receipt at site, unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, final painting at site, trial run at site and carrying out performance guarantee /Functional / Demonstration tests at site (As applicable), training of customer/ client O&M staff ( if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	SET	1.000	0.3998550%
4008	Providing and laying a layer of high modulus polypropylene geo grids, grid structure shall be extruded bi-axial, mesh opening size of geo grid varies from 35x35mm (+/-) 15%. Work shall complete in all respect. Rates are inclusive of all machinery, equipment, labour and mobilization charges etc., complete.	SQM	356760	5.0447980%
4009	Providing and laying a layer of mechanically bonded poly propylene layer of non-woven geo textile having wide width tensile strength (MD/CD ) of geo textile of 6.0/7.5kN/m, apparent opening size of 0.120 to 0.3 (max)mm and hydraulic conductivity having more than 10 <sup>-6</sup> m/s.	SQM	500	0.0016060%
<b>TOTAL ALLOTTED PERCENTAGE</b>				<b>94.5033820%</b>

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**SCH-4 : GROUND IMPROVEMENT WORK**

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
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	19750	1.1260440%
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	70	0.0008750%
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	2	0.0070030%
<b>TOTAL ALLOTTED PERCENTAGE</b>				<b>1.1339220%</b>

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SCH-5: SUPPLY

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>S400 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>				
S401	Providing of <b>mild steel reinforcements</b> conforming to Grade ASTM-Designation A615-80, grade: 40 / BST I (22/34) in concrete including cost of reinforcement and binding wire, labour, scaffolding, transportation to & from stores etc. all complete as per specifications & drawings.	MT	6	0.0240710%
S407	Providing of <b>high yield strength steel reinforcements in brickwork/Autoclave Aerated Concrete blocks</b> including cost of reinforcement and binding wire, labour, scaffolding etc. complete all as per specifications & drawings.	MT	20	0.0864050%
<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>				
S701	Supply 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	17	0.0690070%
S704	Supplying of following items for all kind of works			
a	MS pipes of all diameters	Quintal	40.000	0.0209070%
b	PVC pipes / conduits of all diameters	Quintal	46.000	0.1244190%
c	UPVC pipes / conduits of all diameters	Quintal	42.000	0.1099800%
<b>S900 DOORS, WINDOWS, VENTILATORS, LOUVERS</b>				
<b>Doors (including master key system), windows, ventilators, louvers, roof ventilators, rolling shutters, partitions including all labour, material (unless otherwise specified in BOQ/specification), equipments, transportation, handling, preparation of working drawings etc. at any level as per specification, drawings, relevant laws of Bangladesh, relevant BS Standards or Bangladesh National building code or Equivalent International standards approved by BIFPCL/BHEL and as directed by engineer - in - charge.</b>				
S904	Providing of <b>single or double steel door shutters with 45mm thk flush design shutter</b> comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centres including void filled with mineral wool (density as per specification), all fittings, Godrej or equivalent make mortice lock with handle on both sides, shop and final painting etc all complete as per specification.	SQM	294	0.0697960%
SA912	Providing of <b>pressed steel frames</b> fabricated from <b>16 gauge M.S sheet</b> mortised, reinforced drilled and tapped for hinges and locks bolts strikes, hold fasts adjustable floor anchors, floor tiles/weather bars, paintings etc all complete as per specifications.	Kg	1080	0.0086910%
S913	Providing of <b>rolling shutter of hot rolled double dipped galvanised steel</b> double walled hollow sections interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs, top cover, primer & shop coats of approved enamel paint etc, all complete as per relevant BS code or equivalent international code and specification of approved make of following types: The bottom lath shall be coupled to a lock plate fabricated from 3mm thick galvanised steel plate and securely rivetted with stiffening angles.			
a	<b>Hand Operated</b>	SQM	64	0.0131620%
b	<b>Mechanically Operated</b>	SQM	51	0.0125630%
c	<b>Electrically operated</b> including Hand crank with continuous chain reel for emergency operation	SQM	128	0.0336380%
<b>1800 MISCELLANEOUS WORKS</b>				
<b>Miscellaneous works including all labour, material (unless otherwise specified in BOQ/specification), equipment etc. at any level unless otherwise specified 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>				
S1810	Providing of <b>rails and guide rails in concrete</b> for transformer, rail track including cutting of rails, joining of rails, anchoring lugs etc all complete.	MT	28	0.1316390%
<b>S2000 FENCING AND GATES</b>				
<b>Fencing and gates including all labour, material (unless otherwise specified in BOQ/specification), equipment 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>				
S2009A	Supply & fabrication of <b>PVC coated galvanised MS Gates</b> out of rectangular hollow sections, channels, joists, angles, flats, plates, pipes including stiffeners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, bronze aluminium ball bearing arrangements, castor wheels etc. all complete (mesh & barbed wire to be paid separately under item no ST2001 of service schedule).	MT	6	0.0332110%

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**SCH-5: SUPPLY**

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>2400</b>	<b>Providing Road Work including necessary material, labour, machinery, transportation etc as per specification, drawing, relevent 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>			
S2420A	Providing of <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	24.000	0.0884600%
<b>MISCELLANEOUS</b>				
S3001	Total lump sum price for <b>SUPPLY PART of Solid waste managment plant</b> comprising of design (i.e. Preperation and submission of drawing/ documents including " As Built " drawings and O&M Manuals) , engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable),fill of lubricants & consumables,Chemicals, alongwith spares for erection , startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, preperation of drawings in 3D (if applicable) for project and package specified above complete with all accessories for the total scope definedin <b>tender technical specification</b> , amendment & agreements till placement of order.	SET	1	3.0045450%
S3002	Total lumpsum price for <b>Mandatory spares for SUPPLY PART of Solid waste managment plant</b> comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee as per tender technical specification above, amendment & agreements till placement of order.	Lot	1	0.0929240%
<b>TOTAL ALLOTTED PERCENTAGE</b>				<b>3.9234180%</b>

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**SCH-6: O&M**

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
3003	Total lump sum price for complete <b>O&amp;M of Solid waste managment plant</b> till handing over of SWM plant to end customer (BIFPCL) plus one year for the total scope defined as per tender technical specification, amendment & agreements till placement of order.	Months	18	0.4392780%
<b>TOTAL ALLOTTED PERCENTAGE</b>				<b>0.4392780%</b>

**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

Sub	No Deviation Certificate.	
Job	PACKAGE 14C: CIVIL & ARCHITECTURAL WORKS FOR CHP,AHP & MISC.WORK FOR 2X660 MW MAITREE RAMPAL PROJECT, BANGLADESH.	
Ref	1.0	Tender no PSER:SCT:KLN-C1984:19.
	2.0	BHEL's NIT, vide reference no PSER:SCT:KLN-C1984:7559, Date: 13-09-2019.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:KLN-C1984:TCN-01 Date: 17-09-2019.
	4.0	BHEL's TCN-02, vide reference no PSER:SCT:KLN-C1984:TCN-02 Date: 18-09-2019.
	5.0	BHEL's TCN-03, vide reference no PSER:SCT:KLN-C1984:TCN-03 Date: 19-09-2019.
	6.0	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/uploaded offer/documents in accordance with tender instructions with acceptance of the terms & conditions of the tender by us and as per aforesaid references.

Thanking you,

Yours faithfully,

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