



DELHI METRO RAIL CORPORATION LTD.

(A Joint Venture of Govt. of India & Govt. of NCT, Delhi)

“Comprehensive Annual Maintenance Contract of Baggage Handling System (BHS) equipment at Stations (NDRU, SJSU, APOT including BHS SCADA CUM servers & BHS in Metro train of Airport Express Line) and Tunnel BHS at Airport station of DMRC Airport Line”.

TENDER DOCUMENT

VOLUME-I

- * NOTICE INVITING TENDER
- * SCOPE OF WORK
- * TENDER PRICES AND SCHEDULE OF PAYMENT

SECTION 1

NOTICE INVITING TENDER (e-TENDER)

1.1 GENERAL

Delhi Metro Rail Corporation (DMRC) Ltd invites sealed open e-Tenders (two bids) from eligible applicants, who fulfill the qualification criteria as stipulated in clause no. 1.2 of NIT, for the work, **“Comprehensive Annual Maintenance Contract of Baggage Handling System (BHS) equipment at Stations (NDRU, SJSU, APOT including BHS SCADA CUM servers & BHS in Metro train of Airport Express Line) and Tunnel BHS at Airport station of DMRC Airport Line”**.

1.1.1 The details of the Tender are as per following:

Approximate cost of work	:	Rs. 2,70,34,332.00 (inclusive of all taxes)
Tender Security amount	:	Rs. 2,70,344.00
Cost of Tender (Non-Refundable)	:	Rs.21,000.00 (Rs.20,000/- plus 5% VAT) Non-Refundable
Completion period of the Work	:	36 months (from 27.12.2016 to 26.12.2019)
Tender documents on sale	:	From 22 .07. 2016 to 22 .08 .2016 (up to 17:00 hrs) on e-tendering website https://eprocure.gov.in/eprocure/app
Pre-bid Meeting	:	Not applicable
Last date of Seeking Clarification	:	08.08.2016 up to 15:00 hrs. (Queries from bidders after due date shall not be acknowledged)
Last date of Issuing Addendum / Corrigendum	:	12.08.2016 up to 15:00 hrs.
Last Date & time of Submission of Tender Online	:	22.08.2016 up to 17:00 hrs.
Date & time of opening of Technical Bid Online	:	23.08.2016 at 11:00 hrs.
Date & time of opening of Financial Bid Online	:	Shall be informed after evaluation of technical bid through website https://eprocure.gov.in/eprocure/app
Authority and place for submission of tender cost, tender security, required documents (if any), seeking clarifications etc.	:	Deputy General Manager/E&M/UG-II, Delhi Metro Rail corporation Ltd. 2nd Floor, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi -110001.
<p>The tender cost and tender security will be in the form of a Demand draft/ Banker's cheque drawn on a scheduled Commercial Bank based in India and should be in favour of "Delhi Metro Rail Corporation Ltd." payable at New Delhi.</p> <p>The same should be submitted in original up to before two hours of opening of technical bid in the office of DGM/E & M/UG-II at the above mentioned address.</p> <p>NOTE: The bidder who fails to submit the tender cost & tender security (in original) within stipulated scheduled deemed to be rejected.</p>		

1.2 **MINIMUM ELIGIBLE CRITERIA :**

1.2.1 Work Experiences -

- a) The tenderers will be qualified only if they have completed work(s) during last five years ending on the last day of the previous month of tender submission (i.e. June -2016) as given below:
- a. One single work of “**similar nature**” of at least 80% of estimated value of contract.
- OR
- b. Two works of “**similar nature**”, each of at least 50% of estimated value of contract.
- OR
- c. Three works of “**similar nature**”, each of at least 40% of estimated value of contract
- b) Similar nature of works includes Installation & commissioning or maintenance of works related to BHS (Baggage Handling System)/ CHS (Container Handling System) /MHS (Material Handling System) in Airports/Airport Metro Express Line/ Cargo Terminals of Airports.

NOTE:

1. Successful completed portion of ongoing works up to June- 2016 shall also be considered for qualifying the eligible criteria.
2. Following documents shall be considered for evaluating the criteria of work experience:
 - a. Self-attested copies of work order, BOQ along with completion certificate (indicating the name of work, final amount, quantity of work, completion date etc.) issued by the client preferably on their letter head for completed work.
 - b. Self-attested copies of work order, BOQ and latest certificate issued by along with completion certificate issued by the client preferably on their letter head for quantum of work executed for work under progress.

1.2.2 Financial Standings –

- a) Contractor's average Annual Turnover of last three audited financial years should be equal to or more than 80% of estimated cost of work.
- b) Self-attested copies of VAT / Service Tax registration certificate, PAN No.
- c) Applicant must not have been blacklisted or deregistered by any Govt. or public sector undertaking during last five years. Undertaking of the same should be given on non-judicial stamp paper of Rs. 10/- duly attested by Notary, in the format enclosed in **Annexure –D off IIT.**

- 1.2.3 Net worth of applicants should be positive. Tenderer shall submit last three years audited financial statement duly attested by certified CA to work out net worth. Documentary proof of satisfying eligibility conditions and audited financial data to be furnished along with the application on printed letter head. The tender submission of bidders, who do not qualify the minimum eligibility criteria, shall not be considered for further evaluation and considered rejected. The mere fact that the bidder is qualified as mentioned in above shall not imply that his bid shall automatically be accepted. The same shall be subject to the data as required for consideration of tender prescribed in the ITT.
- 1.2.4 The mere fact that the tenderer is Pre-qualified as shall not imply that his bid shall automatically be accepted. The same should contain all Financial & other details as required for the consideration of tender.
- 1.2.5 Tender document consists of the following documents:
- VOLUME-I**
- a. Notice Inviting Tender
 - b. Scope of Work
 - c. Tender Prices and Schedule of Payment
- VOLUME-II**
- a. Instructions to Tenderers
 - b. Format of forms
 - c. Special Conditions of Contract
 - d. Other terms and conditions
 - e. Contents of BOQ.
- 1.2.6 The contract shall be governed by the documents listed in **Para 1.2.5 above**.
The bidders may obtain further information / clarification, if any, in respect of these tender documents from the office of **Deputy General Manager/E&M/UG-II, Delhi Metro Rail corporation Ltd. 2nd Floor, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi -110001.**
- 1.3 The intending bidders must be registered on e-tendering portal <https://eprocure.gov.in/eprocure/app>. Those who are not registered on the e-tendering portal shall be required to get registered beforehand. If needed they can be imparted training on 'online tendering process'. After registration the tenderer will get user id and password. On login tenderer can participate in tendering process and can witness various activities of the process.
- 1.4 The authorized signatory of intending bidder, as per Power of Attorney (POA), must have valid class-III digital signature. The tender document can only be downloaded or uploaded using Class-III digital signature of the authorized signatory.
- 1.5 Tender submissions will be made online after uploading the mandatory scanned documents towards cost of tender documents such as Demand Draft or Pay Order or Banker's Cheque from a Scheduled commercial bank based in India and towards Tender Security such as Bank Guarantee or Demand Draft or Pay Order or Banker's Cheque from a Scheduled commercial bank based in India and other documents as stated in the tender document.
- 1.6 Tender shall be valid for a period of as per **ITT clause 12.0** from the date of submission of Tenders.

NO. DMRC/O&M/E&M/BHS_CAMC/2016-2019.

- 1.7 Tenderer is cautioned that the tender containing any material deviation from the tender document which consists of NIT, Instructions to tenderers, General conditions of contract, Special conditions of contract, Bill of quantities is liable to be summarily rejected as non-responsive.
- 1.8 DMRC reserves the right to accept or reject any or all proposals without assigning any reasons. No tenderer shall have any cause of action or claim against the DMRC for rejection of his proposal.
- 1.9 Tenderers are advised to visit the site of work before offering their rates.
- 1.10 The bidders are advised to keep in touch with e-tendering portal <https://eprocure.gov.in/eprocure/app> for updates. Any corrigendum, addendum etc issued shall be part of this tender document and shall be made available on this e-tendering portal.
- 1.11 Late tenders (received after date and time of submission of bid) shall not be accepted under any circumstances.

(Mr. Vivek Shrivastava)
DGM/ É & M/UG-II,
Delhi Metro Rail Corporation Ltd.
2nd Floor, Metro Bhawan, Fire Brigade Lane,
Barakhamba Road, New Delhi -110001.

INFORMATION AND INSTRUCTIONS FOR “ON LINE BID SUBMISSION”

The intending tenderers must read the terms and conditions carefully and should only submit his tender if he considers himself eligible and he is in possession of all the documents required.

Information and instructions for tenderers posted on website shall form part of tender documents. The complete Tender Document can only be obtained online after registration of tenderer on the website <http://eprocure.gov.in/eprocure/app>.

Tender can only be submitted after uploading the mandatory scanned copy of documents such as Demand Draft or Pay Order or Banker's towards cost of Tender Documents and Tender Security (as prescribed in clause 1.1.1 of NIT).

The bidders are required to upload their bids electronically on the Central Public Procurement (CPP) Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.
- 3) For any Technical queries related to Operation of the Central Public Procurement Portal Contact at :

Mobile Numbers: 91 8826246593

Telephone Numbers: The 24x7 Toll Free Telephonic Help Desk Number 1800 3070 2232.
Other Tel: 0120-4200462, 0120 4001002

Email Id: cppp-nic@nic.in

SECTION 2

SCOPE OF WORK .

Introduction of Baggage Handling System (BHS).

- The DMRC Airport Metro Express Line (AMEL System) comprises of a 22.694 km long standard gauge high speed rail corridor.
 - Two of the city stations, i.e. New Delhi (NDRU) and Shivaji (SJSU) are equipped with baggage check in facilities while the Indira Gandhi Airport (APOT) Station is equipped with baggage unloading and transfer facilities that connect to the IGI T-3 Baggage make-up area.
 - Three other stations, i.e. **Dhaura Kuan, Delhi Aerocity and Dwarka Stations** have no Baggage Handling System., however in Dhaura Kaun , Boarding passes are issued for City Check In passengers however in future DMRC may install & operate BHS system at Dhaura Kuan.
 - At present Air India and Jet Airline are operating its check in facility and in future Air Vistare, Air Asea & Indigo or any other air line may operate their check in facility. Plan is also there to transport cargo parcels from New Delhi/Shivaji to Airport and vice versa.
 - At the check-in facility, checked in baggages are loaded in containers and containers are transported from New Delhi & Shivaji station to IGI Airport through train.
 - There are 8 trains in Airport express line and all 8 trains have one train car (DMLC) that is partially equipped with container handling facilities. Each of these car can transport up to 7 containers at any time.
 - All luggage and container movements is controlled by an automation system (SCADA) with minimal operator intervention.
 - BHS system was commissioned in year 2010 by M/s Siemens. Detail of various sub systems is given below:
 - i) Controls and Automation by M/s. Siemens India Ltd.
 - ii) Container Handling Systems by M/s. Lodeigo Singapore Pte Ltd.
 - iii) Belt Conveyor System by Siemens Singapore pte Ltd.
 - iv) BHS SCADA System by M/s. Smart Controls Pvt Ltd, Gwalior.
- Belt conveyor between** DMRC Airport Station to IGI Airport Terminal -3 baggage makeup area was installed by M/s. Vanderlande Industries Netherland, and then M/s. Vanderlande Industries has sub contracted the works as under.
- i) Controls and Automation by M/s. Vanderlande Industries India Pvt Ltd.
 - ii) BHS Tunnel equipments by M/s. Vanderlande Industries, Netherland.

2.1 The contractor shall execute the work i.e. **“Comprehensive Annual Maintenance Contract of Baggage Handling System (BHS) equipment at Stations (NDRU, SJSU, APOT including BHS SCADA CUM servers & BHS in Metro train of Airport Express Line) and Tunnel BHS at Airport station of DMRC Airport Line”**.

NO. DMRC/O&M/E&M/BHS_CAMC/2016-2019.

- a) The contractor shall carry out all Preventive, Corrective and Break down maintenance to ensure that the entire Baggage Handling System (BHS) is maintained as per the Service level agreement. Preventive Maintenance shall be done in night block hours between 00:00 to 4:00 hrs.
- b) In future, more Airlines including Cargo Operators are expected to use BHS system and no payments shall be made extra in this account.
- c) Round the clock manning of technician is required at NDRU, SJSU and APOT including 02 technicians at Depot per day. One maintenance engineer/manager is required per daily basis and BHS SCADA expert as and when required.
- d) For Preventative/Corrective Maintenance, Contractor shall deploy additional staffs although, Contractor can use round the clock technician available at the station.
- e) The contractor shall ensure the BHS is maintained consistent with all safety standards, regulatory authority requirements and assure a safe, secure and efficient system for all personnel who maintain or have access to it.
- f) The contractor shall provide full maintenance and repair services, Preventive Maintenance, Corrective Maintenance, and documentation of equipment activity and services performed on the Baggage Handling System BHS & Tunnel BHS described herein. All Daily, Weekly, Monthly, Quarterly, Half-yearly and Yearly Preventive Maintenance tasks shall be performed within a mutually agreed time period.
- g) Contractor shall arrange to rectify all interface issues with Rolling Stock, Signaling, PSD and telecom.
- h) The Breakdown Maintenance of BHS is to be carried out any time during **24 hrs x 365 days inclusive of all Sundays & Holidays**. So that train delay due to failure of BHS equipments will be minimized.
- i) Respond to all calls and perform the necessary repair or action effectively and efficiently within the response time described herein.
- j) Summary of the BHS Asset List installed at different locations of DMRC Airport Line is attached **as Annexure -01**.

2.2 Preventive Maintenance

Contractor shall carry out Preventive Maintenance as per Schedule tabulated below. The contents are indicative only and DMRC may change the same as per requirement. If contractor feels that any other activity is required to be additionally done for proper maintenance of the system as per the OEM recommendation, he shall carryout the same with approval from DMRC representative. Contractor shall also submit the action plan to carry out the preventive maintenance of all related assets.

BHS Preventive Maintenance Periodicity Plan (Table contents are Indicative).

Item	Scheduled Task	Daily	Weekly	Monthly	Quarterly	Half-Yearly	Yearly
Check-in facilities	Straight Conveyors	Visual	Check List to be filled and signed	X	X	X	X
Baggage Conveying Facilities	Curved Conveyors	Visual		X	X	X	X
	Queuing /Metering Conveyors	Visual		X	X	X	X
	Straight Conveyors > 2M length	Visual		X	X	X	X
Shuttle Vehicle-Roller Deck Drive	Shuttle Vehicle	Visual		X	X	X	X

NO. DMRC/O&M/E&M/BHS_CAMC/2016-2019.

Loading Vehicle-Roller Drive	Loading Vehicle	Visual		X	X	X	X
Roller / Chain Conveyors inside Train	Chain Conveyors	Visual		X	X	X	X
HOIST	Hoist	Visual		X	X	X	X
Right Angle Deck- Roller Drive	Right Angle Deck	Visual		X	X	X	X
Fall Back Lifting UNIT	Lifting Unit	Visual		X			X
VCC	Vertical Continuous Conveyor	Visual		X		X	X
ATR	Automatic Tag Reader	Visual		X			
Ethernet Network and Service	SCADA Visualization, PLC gateway.	Visual		X	X		X
Batteries, UPS and PLC		Visual			X		X
Sensors		Visual		X			
Panels		Visual		X			

Preventive maintenance shall be carried out as per above schedule with following permissible time limit

S. No.	Frequency of maintenance	Permissible time from schedule date
01	Daily	NIL
02	Weekly	+/- 1 day
03	Monthly	+/- 5 days
04	Quarterly	+/- 15 days
05	Half yearly	+/- 30 days
06	Annual	+/- 45 days

2.3 Corrective/Breakdown Maintenance Response & rectification time.

The **Response Time** shall be counted from the moment information of failure is communicated to the engineer of contractor through mobile of DMRC representative till the time engineer of contractor reaches site with tools, equipment & spares. For this purpose, contractor shall provide mobile no. of engineer and 2nd engineer In charge. Rectification time of any fault during commercial/revenue operation is also given below.

Response Time (Max)	0.5 Hours
Rectification Time (Max.)	0.5 Hours

2.3.1 Contractor is required to get issued at least 04 nos. of IGI T3 passes for his staff from BCAS office in order to carry out Preventive Maintenance/Break Down maintenances for BHS equipments installed inside the IGI Airport Terminal -3 BMA (Baggage Make Up Area).DMRC will extend support to BHS Contractor, if required.

2.4 Fitness Test .

Fitness test of transferring one default container each from New Delhi Station and Shivaji Station to APOT de-stuffing area and back to Shivaji Station and New Delhi station shall be part of operation procedure at start of commercial operation on daily basis and it will be witnessed by maintenance staff at the concerned station.

Fitness test of trains to be carried out by Maintenance team on trains at Depot and maintenance team at stations before main line commercial operation of Trains.

BHS Station fitness before start of commercial operation to be demonstrated by Maintenance team and handed over to Operation team for commercial operation by operating in circular mode.

2.5 Materials and Spare Parts

The Contractor shall provide all resources (i.e. supervision, labor, tools, tackles, test equipment, materials, supplies, consumables, spares, **software of SCADA/PLC**, logistics and equipment) necessary to fulfill all the requirements of preventive & corrective maintenance and nothing shall be paid extra.

The Contractor shall provide all safety equipment/devices, signage and personal protective equipment as required for its workers and same needs to be approved by DMRC.

The Contractor shall be responsible for the management, inventory, storage, and procurement and safe-keeping of the Spare Materials inventory, including protection for deterioration or damage resulting from exposure to the elements.

The contractor shall plan and purchase sufficient stock of all required spare parts for all equipment, parts of the BHS covered in this package and have them available on site to maintain the performance and to achieve the Service Level Agreement. DMRC will provide reasonably sufficient storage space for the proper storage of these spare parts.

2.6 Legislative Compliance

The contractor must comply with and ensure that its employees, subcontractors and all such persons working on their behalf comply with applicable acts, regulations, local laws and by-laws, codes of practice, Indian Standards ,relevant labour laws and DMRC's Safety Policies and procedures which are in any way applicable to the performance of the services under this contract.

2.7 Liquidated Damages (LD) for system unavailability.

The LD will be calculated on a quarterly basis as per the quarterly overall system unavailability for revenue operation. The Quarters will be defined before signing of the contract.

System un-availability (hours)	Liquidated Damages (%)
Measured quarterly	Deducted quarterly
< 1 hour	Nil
> 1 hours & < 4 hours	2.5 %
> 4 hours & < 8 Hours	5.0%
> 8 Hours & < 12 Hours	7.5%
> 12 Hours	10.0%

2.8 Maximum Liquidated Damages in Consecutive Quarters.

The maximum amount of liquidated damages payable in each Quarter shall be ten (10) % of the Fee payable to the maintenance contractor for the contract year, but the sum total of all liquidated damages payable in a contract year in any case shall not exceed twenty five (25) percent of the fee payable in that contract year. In the event in any year the amount of liquidated damages calculated is greater than the maximum amount of the liquidated damages under this clause, then the employer reserves the right to terminate the contract or the balance shall become a debt incurred by the service provider to the Employer and shall be paid as liquidated damages in the next contract year where the liability for liquidated damages falls below the maximum, subject to the refund clause. If the service provider does not operate for the full quarter due to any reason, the maximum limit will be calculated on a prorated basis. The above limit is only applicable for the LDs calculated through the overall system unavailability.

2.12 Work and Services to be provided by DMRC.

2.12.1 Free electricity and water shall be provided by DMRC for all purposes.

2.12.2 DMRC is an ISO -14001 & OSHAS 18001 certified organization for Environment, Health and safety. The work is to be carried out as per International Norms/standards and in such a manner that all premises always look Neat and Clean. Similarly, the waste disposal is also Carried out in totally sealed manner without effecting the Environment.

SECTION 3

TENDER PRICES AND SCHEDULE OF PAYMENT

3.1 Tender Prices

- 3.1.1 a. unless explicitly stated otherwise in the Tender Documents, the contractor shall be responsible for the whole works, based on the Bill of Quantities and payment shall be made as per accepted rates based on the activities carried out as in the BOQ.
- b. The rate quoted by the tenderer shall be inclusive of all duties, taxes, fees, octroi and other levies, materials, labour, to & fro transportation of material and labour charges etc. Service Tax however shall be shown separately in the BOQ.

3.1.2 Schedule of Payment

- A) No mobilization advance is payable to contractor for the said work.
- B) Payment shall be made through running bills as per accepted rates on quarterly basis after submission of bill, HR compliance documents (mentioned below) and along with the service (preventive & corrective) reports jointly signed by the contractor In charge/representative and DMRC Engineer in charge.
- C) Payment shall be subjected to deduction of all T.D.S as per applicable law.
- D) HR Compliance documents
- i. Insurance policies as per GCC.
 - ii. Challans for EPF related period of payment.
 - iii. Challans for ESI related period of payment.
 - iv. Certificate for compliance ESI.
 - v. Certificate for compliance of EPF.
 - vi. Certificate for compliance of minimum wages.
 - vii. Proof of disbursement of wages to staff.

Annexure - 01

SUMMARY OF BHS NDRU ASSET SHEET		
Sl. No.	Equipment Name	Quantity
1	Weighing & Labelling Conveyor	10
2	Dispatch Conveyor	10
3	Take away Conveyor	2
4	Power turn(90deg)	2
5	Power turn(60deg)	2
6	Straight Conveyor	3
7	Incline Conveyor	1
8	Collector Conveyor	1
9	Gravity conveyor	1
10	Fire Shutter Door	3
11	Control panel	9
12	Remote Box	5
13	Roller conveyor	39
14	Right Angle Deck-Roller Drive	10
15	Fast Action Door	4
16	Hoist-Lifting Drive	4
17	Roller Conveyor Inside Hoist	4
18	Fallback Lifting Conveyor	2
19	Fallback Roller Conveyor	2
20	Power Distribution Panel	1
21	Hand-Held Bar code scanner (Make: Symbol)	4
22	Shuttle Vehicle-Roller Deck Drive	4
23	Loading Vehicle-Roller Drive	4
24	Fixed Bar code scanner (Make: Microscan)	4
25	Client PC -1 Cabinet + Panel PC + UPS+E1 Switch	1
26	Client PC -1 Cabinet + Panel PC + UPS	1
27	Single Roller Spacer Decks	4
28	Maintenance Platform	1
29	Walk Over/ RAM Protection	1
30	Fixing materials including Bolts and Nuts	1 Set
31	Bar Code Positioning System (BPS)	2
32	Aniti Vibration Pad	1 Lot

SUMMARY OF BHS SJSU ASSET SHEET		
Sl. No.	Equipment Name	Quantity
1	Weighing & Labelling Conveyor	9
2	Dispatch Conveyor	9
3	Take away Conveyor	1
4	Power turn(90deg)	2
5	Straight Conveyor	1
6	Incline Conveyor	1
7	Collector Conveyor	1
8	Gravity conveyor	1
9	Fire Shutter Door	3
10	Control panel	9
11	Remote Box	5
12	Roller conveyor	34
13	Right Angle Deck-Roller Drive	8
14	Fast Action Door	4
15	Hoist-Lifting Drive	4
16	Roller Conveyor Inside Hoist	4
17	Fallback Lifting Conveyor	2
18	Fallback Roller Conveyor	2
19	Power Distribution Panel	1
20	Hand-Held Bar code scanner (Make: Symbol)	4
21	Shuttle Vehicle-Roller Deck Drive	4
22	Loading Vehicle-Roller Drive	4
23	Fixed Bar code scanner (Make: Microscan)	4
24	Client PC -1 Cabinet + Panel PC + UPS+E1 Switch	1
25	Client PC -1 Cabinet + Panel PC + UPS	1
26	Single Roller Spacer Decks	2
27	Maintenance Platform	1
28	Walk Over/ RAM Protection	1
29	Fixing materials including Bolts and Nuts	1
30	Containers	100
31	Bar Code Positioning System (BPS)	2

SUMMARY OF BHS APOT ASSET SHEET		
Sl. No.	Equipment Name	Quantity
1	Power turn(60deg)	1
2	Power turn(90deg)	1
3	Straight Conveyor	2
4	Control panel	10
5	Roller conveyor	47
6	Right Angle Deck-Roller Drive	11
7	Fire Shutter Door	5
8	Fast Action Door	6
9	Hoist-Lifting Drive	3
10	Roller Conveyor Inside Hoist	6
11	Power Distribution Panel	1
12	Turn Table	2
13	Hand-Held Bar code scanner (Make: Symbol)	4
14	Shuttle Vehicle-Roller Deck Drive	4
15	Loading Vehicle-Roller Drive	4
16	Fixed Bar code scanner (Make: Microscan)	4
17	Client PC -1 Cabinet + Panel PC + UPS+EI Switch	1
18	Client PC -1 Cabinet + Panel PC + UPS	1
19	Single Roller Spacer Decks	4
20	Maintenance Platform	1
21	Walk Over/ RAM Protection	1
22	Fixing materials including Bolts and Nuts	1
23	Bar Code Positioning System (BPS)Spare Parts Including Motors	2
SUMMARY OF BHS_ TRAIN ASSET SHEET		
Sl. No.	Equipment Name	Quantity
1	Right Angle Deck-Roller Drive	16
2	Chain Conveyor	40
3	Main Control Panel	8
4	Remote Box	40
5	Hand Rails and Stoppers Gate	8 Sets
6	Train Cables 4C(S) X 0.75 MM Sq	Lot
7	Train Cables 4C(S) X 6 MM Sq	Lot
8	Train Cables 4C(S) X 6 MM Sq	Lot
9	Train Cables Profibus	Lot
10	Train Sensor Diffused Sensors With Connector	144

NO. DMRC/O&M/E&M/BHS_CAMC/2016-2019.

11	Limit Switches	176
12	Trains SIMATIC – PLC VFD and WLAN Equipments	8
SUMMARY SHEET OF BHS SERVER ROOM ASSET.		
Sl. No.	Equipment Name	Quantity
1	Server Rack	1
2	Oracle Server	2
3	Scada Server	2
4	24-Port Switch	2
5	UPS switch	1
6	UPS	2
7	Monitor-15"	2
8	Engineering Station (Desktop)	2
9	Printer	2
10	E1 Switch	2

SUMMARY SHEET OF BHS TUNNEL ASSET.		
Sr. no.	Equipment No.	Quqntuty
1	BF-Belt Floorveyor	35
2	BC-Power Curve/Belt Curve(21 DEG)	2
3	BC-Power Curve/Belt Curve(90 DEG)	5
4	BC-Power Curve/Belt Curve(45 DEG)	1
5	BC-Power Curve/Belt Curve(90 DEG)	3
6	VCC-Vertical Conveyor	1
7	Fire Shutter Door	2
8	ATR-Automatic Tag Reader	1
9	Main control panel-1	1
10	Remote control panel	2
11	Baggage Lift	1