



(A Govt. of India Mini Ratna Company under Ministry of Defence)

Pre-bid Meeting – BEML Response to Pre-bid Queries from Bidders - Set 2

Dated: 05/07/2026

Name of the Work: Engineering, Procurement & Construction pertaining to establishment of Rail coach factory including Civil Construction of manufacturing blocks, testing bay, other utility buildings (Non factory buildings), Railway Track sidings, water supply and distribution System, Roads, Drainage and sewerage systems, General Electric works including regular and emergency power supply and distribution system, related installations & services (Fire, Gas, Compressed air, IT, BMS, etc.), MFA (Miscellaneous fixed assets) and other Land & Site development works including grading, levelling works in connection with setting up of a Rail Coach Factory hereinafter referred as BEML RAIL HUB FOR ADVANCE MANUFACTURING (BRAHMA) near Umaria village, Obaidullaganj, District- Raisen, Madhya Pradesh (India) on EPC Mode.

Tender Notice No. :6300040573

Tender Date: 25.05.2026

Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
1	Existing Structures	Topography Survey Drawing	Some houses and structures are being noticed within the boundary limit. Please elaborate who will dismantle the houses.	The site will be handed over to EPC contractor without any encroachments. Dismantling/ demolition and disposal of debris pertaining to any structure falling under the plant boundary shall deemed to be included in the scope of EPC contractor.
2	Finished Floor Level	General	Please indicate the FFL of the facilities in RL values.	Refer Clause 1.6 Page No. 49 of 189 in NIT.
3	NIT document - Scope of Work Cl. 1.4	"Execution of work with construction of buildings and services. This shall include supply of all required materials, construction, installation, testing and commissioning for operationalization of the building and services. This shall also include clearance of jungle, cutting of all existing trees as required, services and utilities"	Please indicate whether Tree cutting approval will be taken by BEML/MECON with documentary evidence of successful bidder.	No tree cutting is envisaged as of now.
4		General	The STP capacity is considered 100 KLD. Please confirm.	STP shall be of minimum 200 KLD capacity, however, based on water requirement as mentioned in NIT, bidder to assess and quote accordingly if it is exceeding.
5	NIT document - Scope of Work Cl. 1.6	Buildings and Facilities	Bidder undertands that only EOT and Underslung cranes are within EPC scope of supply. Remaining all equipments (Moving machine/ equipment like crane, traverser, turntable, forklift, trolley etc.) are to be supplied by BEML. Bidder requests to share the load data, equipment sizes etc. for structural estimation.	Yes, Only EoT's and Underslung Crane are under the scope of EPC Contractor. AGV's is expected to be used for movement of coaches (2 Nos. of AGV per coach) in Tandem arrangement inside the Manufacturing Block. AGV self weight may be considered as 5.6T each and fully furnished coach weight may be considered as 55T. Live load details are provided in Technical Specifications



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6	NIT document - Scope of Work Cl. 1.6	List of facilities	Bidder understands that 100 ft weighbridge means the platform length is 100 ft. Bidder considers the width of the platform is 3m. Further Bidder considers weigh bridge shall be of pitless type. Please confirm.	The weigh bridge is proposed to be installed on EPC mode. Hence, the bidder is required to assess themselves as per the requirement of the proposed facilities and quote accordingly. It is advised that the bidder should consult product supplier to get the required technical details. In general, weigh bridge shall be of static and pit type.
7	NIT document - Scope of Work Cl. 1.6	List of facilities	In absence of detail specification bidder considers the DG EOT/ SGUS Cranes shall be as per IS-3177 of M-5 class. MOC of the crane shall be as per OEM standard. Please confirm.	Class of the Crane required for DG EOT i.e. M-8 has been mentioned in Technical Specification. Follow tender specifications. Class of Underslung crane shall be of M-5 type.
8		General	Is the boundary wall of the plant is in Bidder's scope ? If yes, please elaborate the material of construction. Also, please demarkate the boundary line.	Internal compound/ security wall required to secure the facility as per the drawings and for the main gate entry apart from the boundary wall already constructed is under the scope of EPC contractor. The material of construction shall be RCC and brick masonry as per the scope of work.
9	NIT document - Scope of Work Cl. 1.4	".....storm water drains connected to rain water harvesting pond...."	Please show the size and location of RainWater harvesting pond. Any specific lining requirement is required to be considered ?	Rain water harvesting pond is not envisaged instead recharge wells of suitable size and number are to be provided by EPC contractor for tapping rain water runoff from roofs of facilities and hardstand.



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10	Technical Specification (1.12)		Provide the FGL for all buildings for earthwork.	Refer Clause 1.6 Page No. 49 of 189 in NIT.
11	Technical Specification (1.12)		Please provide the type of vehicles which will be plying and the frequency to decide the crust composition.	The road is proposed to be constructed on EPC mode. Hence, the bidder is required to assess themselves the type of vehicle as per the requirement of the proposed facilities, codal provisions and quote accordingly.
12	Technical Specification (1.12)		Provide annual rainfall data for drainage design.	Bidders have to collect local meteorological data themselves for designing purpose
13	Deatiled Engineering Scope Scope of work, cl no 1.5.1 ,a, page no 45	a. Surveys and investigations Topographical survey (Topographical survey report carried out at the time of DPR preparation available with BEML has been annexed with this tender (Report). However, verification/ validation of the same with respect to the MSL of Obaidullaganj Railway Station shall be the sole responsibility of EPC contractor as it is very critical for railway siding work and Land & Site Development Work as dispatch railway track is to be connected to the broadgauge line passing by the side of project site with slope as permitted by the Indian railways. Soil investigation and geotechnical report available with BEML is also enclosed with this tender (Report) which is a preliminary investigation carried out for DPR preparation. It is mandated that fresh soil investigation be carried out for the assessment of soil bearing capacity and decision regarding type of foundation	1. Topographical survey report Soft Copy(Excel/Cad) required. 2. Deatiled Scope of Take off Point from Main Line of Obaidullaganj to Coach factory. 3.Deatiled Scope of 25KV OHE from Main to Coach factory and Coach factory Siding. 4.ROW Scope for Track laying from Main Line of Obaidullaganj to Coach factory. S & T (Signalling and Telecommunication) -- 1. If the plant siding is connected to the Indian Railways network, entry and exit movements between the main line and the plant siding generally require signalling systems and operating procedures. Kindly confirm whether the scope of signalling works, including any associated interlocking, signalling interfaces, and operational requirements, is included in the tender scope or shall be considered excluded. 2. As the proposed track is to be connected to an Indian Railways station and may necessitate alterations/modifications to the existing	1. Topo survey report (CAD) has already been shared in NIT. 2. Take off point from main line of Obaidullaganj to Coach Factory is not under the scope of EPC contractor. 3. Scope of 25KV OHE from Main to Coach factory and Coach factory Siding is in ECP contract. 4. ROW Scope for Track laying from Main Line of Obaidullaganj to Coach factory is not in the scope of EPC contractor. 5. S & T (Signalling and Telecommunication) - Not under the scope of EPC contractor.



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14	Stinger Box	1.6.2 Coach/Car Inspection & Testing facility	STINGER BOX A 750 V DC power supply Stinger box has been envisaged inside the Car body inspection bay for a distance of 400 m for the testing facility for Metro car. This area has been isolated by means of access control system which will allow only authorised personnel to access this area. This area has been designated along the column axis No. A	Access control system shall be in place for total inspection and testing bay.
15	25KV TESTING TRACK 1.6.2 Coach/Car Inspection & Testing facility	A 25 kV AC power supply has been envisaged inside the Car body inspection bay for a distance of 400m for the testing facility for Commuter rails. This area has been isolated by means of access control system which will allow only authorised personnel to access this area. This area has been designated along the column axis No. B	For a Car Inspection & Testing Facility (Coach/Car maintenance facility), whether 25 kV supply is taken directly from the existing Railway OHE network or Seprate feed required Like TSS/SSP with CB. If Seprate 25KV feed(TSS) required incoming HT Volatge also required.	Seprate 25KV feed (TSS) is required
16	Appendix-C Compliance to Bill of Quantity (BOQ)	Preparation of Architectural, Structural Designs, proof check of design & drawings by IITs, Cutting, levelling/filling of land, field survey and soil investigation and Construction of Manufacturing Block with Annexe building, Inspection Block, various technological buildings, non-technological buildings, Canteen Building, Fire Station, Occupational Health Centre, rail tracks with and without OHE, traverser foundation, construction of MRSS, EPSS, compressed air station, gas bank, raw material storage	Confirmation required whether new laid All track 25KV OHE arrangement is Required or Not.	Yes, required.
17	Roads & Drains	Technical Specification (1.12)	Provide the FGL for all buildings for earthwork.	Refer Clause 1.6 Page No. 49 of 189 in NIT.



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18	Roads & Drains	Technical Specification (1.12)	Please provide the type of vehicles which will be plying and the frequency to decide the crust composition.	The road is proposed to be constructed on EPC mode. Hence, the bidder is required to assess themselves the type of vehicle as per the requirement of the proposed facilities, codal provisions and quote accordingly.
19	Roads & Drains	Technical Specification (1.12)	Provide annual rainfall data for drainage design.	Bidders have to collect local meteorological data themselves for designing purpose
20	Roads & Drains	Technical Specification (1.12)	Possible location of drainage discharge point.	The one connection point for the storm water shall be to the existing nalla which is located adjacent to the entry point of the proposed plant. Another connection point shall be at eastern side of the plot near the temple for discharge of storm water into existing pond. No discharge of Sewerage to Municipal Sewer is envisaged as all generated sewer shall be treated through plant STP as it is a zero discharge plant.
21	Incoming Power & utility interface	NIT-6300040573: 1.6.4.7. Main Receiving Substation (MRSS): MRSS is a RCC structure building with total Built up area is 300 Sq. m. A separate 33/11KV transformer area of size 12m x 6 m has been considered. A Satellite office building is also integrated with this MRSS building. A dedicated 33 KV HT cable will reach to Project site by MP State Electricity Board under deposit basis work. The 33 KV HT line will be terminated at the metering cubicle inside the project area. 33 KV Cable from metering cubicle to the MRSS shall be laid through suitable cable routing by the EPC.	The SEB is responsible for bringing the cable to the metering cubicle inside the plant, and the EPC Contractor responsibility start from Metering cubicle. Further, the required deposit for laying of 33kV cable from SEB to metering panel will be bear by Client/BEML Please confirm.	Yes, confirmed.
22	Cables	Technical Specification: K. HT/LT Cables: 11KV cables shall be heavy duty, FRLS, XLPE insulated, PVC sheathed multi core, aluminium/copper conductor steel wire double armoured, FRLS type.	Please confirm the requirement of Al or Cu conductor for HT & LT Cable.	Aluminium conductor with armoured cable



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23	DG set capacity Discrepancy	NIT-6300040573: 1.6.4.8. Emergency Power Supply System (EPSS): Emergency power supply for all other units & Pump Houses are planned from Centralized DG system near to MRSS building. 2nos. 1000 kVA DG sets has been considered and the same is located near to MRSS. Containerized type DG set has been considered with a provision for Day tank to feed the DG set. A Hard stand structure of around 70 Sq. m has been considered for the facility. Technical specification: 14.1 Technical Particulars of DG sets <table><tr><th colspan="4">14.1 TECHNICAL PARTICULARS OF DG SETS</th></tr><tr><th>Sl. No.</th><th>Description</th><th>Unit</th><th>Value</th></tr><tr><td>1.</td><td>Rated power at the alternator terminals</td><td>kVA</td><td>2000</td></tr><tr><td>2.</td><td>Power rating classification</td><td>kVA</td><td>Prime power with varying load required during power outage.</td></tr></table>	14.1 TECHNICAL PARTICULARS OF DG SETS				Sl. No.	Description	Unit	Value	1.	Rated power at the alternator terminals	kVA	2000	2.	Power rating classification	kVA	Prime power with varying load required during power outage.	In RFP, NIT 6300040573 it is mentioned that 2 No's of 1000kVA DG set to be consider while in technical specification it is mentioned as 2000kVA DG set. Further in the layout drawing 3 nos of foundation is shown. Please clarify which one to consider.	DG Sets are proposed for 2 Nos. of 1000 kVA capacity each only.
14.1 TECHNICAL PARTICULARS OF DG SETS																				
Sl. No.	Description	Unit	Value																	
1.	Rated power at the alternator terminals	kVA	2000																	
2.	Power rating classification	kVA	Prime power with varying load required during power outage.																	
24	Fuel Storage	Technical Specification: 7. Fuel Oil System Each DG set shall be provided with 990Liters Day tank. Day tank shall be provided with flanged fuel inlet, outlet, high-and low-level switches, float valve etc. The day tank shall be provided with level gauge calibrated in liters for easy filling in of fuel. Fuel outlet of day tank to be connected to the fuel supply / feed line of DG set. Fuel return line from the DG set shall be connected back to the day tank. Drain cock shall be provided. The oil tanks shall be mounted on a self-supported steel structure frame.	We are considering that each DG sets will be provided with 990 ltr Day oil tank only and there is no additional requirement of HSD tank. Please confirm.	There is no additional requirement of HSD tank																
25	Future Load Growth	Future provision/ Space/ Spare for Electrical System	Please confirm the requirement of future provision, space/ spare capacity, redundancy for Electrical Equipments (DG, Transformer, UPS), LT Panel feeders, etc.	Follow tender condition																
26	Specialized Testing Facilities	NIT-6300040573: 1.6.2. 25kV TESTING TRACK. A 25KV AC power supply has been envisaged inside the Car body inspection bay for a distance of 40m for the testing facility for Commuter cars. This area has been isolated by means of access control system which will allow only authorised personnel to access this area. This area has been designated along the column axis No. 6. A 750 V DC power supply Stringer bar has been envisaged inside the Car body inspection bay for a distance of 40m for the testing facility for Metro car. This area has been isolated by means of access control system which will allow only authorised personnel to access this area. This area has been designated along the column axis No. A.	As per present technical specifaication and scope details MRSS building have only 33/11 kV system. Please clarify the tap off point for 25kV & 750V DC system. For clarity provide the block scheme/SLD.	Please follow New SLD diagram provided in Annexure 1 of Corrigendum-1. It is to be noted that the new SLD diagram is conceptual in nature and is shared only as reference and quoting purpose only. EPC bidder shall need to design and prepapre detailed SLD diagram during design stage and ge it approved from BEML.																
27	UPS	Technical Specification: Q. UN-INTERRUPTED POWER SUPPLY (UPS) Each UPS set shall consist of common battery bank for 30 minutes back up for lighting) and 1 hour back up for workstation) in case of power failure.	We are envisining that the 30 min backup is for complete plant & external area Lighting. However, emergency lighting will be considered with 90 min of inbuilt battery bakcup as per requirement of NBC/ NFPA norms. Please confirm.	Follow tender condition																



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28	Solar street lighting, Lighting automation, Façade lighting, Landscape lighting, EV charging, DC system for plant		Please confirm the requirement of Solar street lighting, Lighting automation, Façade lighting, Landscape lighting, EV charging, DC system for plant, etc	Follow tender condition.
29	Equipment Layout drawing & client supplied equipment load list		Please provide the Equipment layout drawing which is being supplied & installed by client along with load list, power factor, starting methodology, scope demarkation for all those equipments.	SLD diagram has already been shared in Corrigendum-1. Bidder to assess the requirement on those basis.
30	INSTRUMENTATION & PROCESS CONTROL , IBMS NIT-6300040573(Page 55 of 189)	Under frame fabrication facility: Welding controller with software & Robot gantry system	Kindly confirm the scope of the Welding Controller, associated software, and Robot Gantry System. Also, please confirm whether any monitoring, control, or integration with the IBMS is required.	Not Required.
31	INSTRUMENTATION & PROCESS CONTROL , IBMS NIT-6300040573(Page 55 of 189)	Car body assembly welding facility: EOT cranes will be utilised for the lifting and lowering of the car body shell. Piped gas line and compressed air facility has been planned at columns and can be drawn to the consumer points.	Kindly confirm the scope of EOT Cranes mentioned under the Car Body Assembly Welding Facility. Also, please confirm whether any monitoring, control, or integration with the IBMS is required.	The scope of EoT cranes has already been provided in NIT and technical specifications. IBMS integration shall be as per general industrial standards which is to be provided by EPC contractor for approval
32	INSTRUMENTATION & PROCESS CONTROL , IBMS NIT-6300040573(Page 62 of 189)	1.6.2 . Coach/Car Inspection & Testing facility	Kindly confirm whether the Coach/Car Inspection & Testing Facility is required to be integrated with the IBMS. If yes, please provide the detailed scope and integration requirements.	IBMS integration shall be as per general industrial standards which is to be provided by EPC contractor for approval
33	TRAIN CONTROL AND MONITORING SYSTEM NIT-6300040573(Page 64 of 189)	TRAIN CONTROL AND MONITORING SYSTEM (PCMS TEST)	Kindly confirm the scope of the Train Control and Monitoring System (TCMS Test). Also, please confirm whether any monitoring, control, or integration with the IBMS is required.	Follow tender condition



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34	INSTRUMENTATION & PROCESS CONTROL , IBMS NIT-6300040573(Page 72 of 189)	Development of Green Belt and Landscaping (37 Acres)	Kindly confirm whether any security systems such as CCTV, Perimeter Intrusion Detection System (PIDS), Access Control System (ACS), or other ELV systems are required for the Green Belt and Landscaping area (37 Acres).	Follow tender condition
35	INSTRUMENTATION & PROCESS CONTROL , IBMS Chapter-7 & 8	MRSS & EPSS	Please clarify whether these systems are required to be monitored through IBMS only or controlled through dedicated PLC/SCADA systems with integration to IBMS.	Follow tender condition
36	INSTRUMENTATION & PROCESS CONTROL , IBMS Chapter-7 & 8 (Page 48 & 113 of 262)	Control Rooms & IBMS room	Kindly provide the locations and layout details of the Control Room(s) and IBMS Room(s)	Refer corrigendum-3.



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37	INSTRUMENTATION & PROCESS CONTROL , IBMS Chapter-7 & 8 (Page 118 of 262)	VESDA detectors shall be provided in critical or high-value areas where early detection is essential, such as: a. Server Rooms	Kindly provide the locations of Server Rooms where VESDA detection systems are required to be installed.	Refer corrigendum-3.
38	INSTRUMENTATION & PROCESS CONTROL , IBMS Chapter-7 & 8 (Page 119 of 262)	7.3 VIDEO CONFERENCE SYSTEM Discussion rooms, Board rooms, and large conference halls	Kindly provide the locations, quantities, and seating capacities of the Discussion Rooms, Board Rooms, and Large Conference Halls where Video Conference Systems are required.	VC for conference rooms are envisaged in Annexe buildings
39	INSTRUMENTATION & PROCESS CONTROL , IBMS Chapter-7 & 8 Page 129 of 262)	Compliance: Adherence to structured cabling standards (TIA/EIA-568), data centre guidelines (TIA-942), and local telecom regulations	Kindly confirm whether TIA-942 Data Center Guidelines are applicable to this project. If applicable, please specify the areas/buildings where compliance is required.	BEML cyber security guidelines to be followed
40	INSTRUMENTATION & PROCESS CONTROL , IBMS Chapter-7 & 8 (Page 143 of 262)	MATERIAL HANDLING FACILITIES	Kindly confirm the detailed scope of Material Handling Facilities and clarify whether any monitoring, control, communication, or integration with the IBMS is required.	Follow tender condition
41	Weight bridge NIT-6300040573(Page 52 of 189)	100 ft road Weight bridge & office	Please confirm whether any monitoring, control, or integration with the IBMS is required.	Follow tender condition
42	VEHICLE CONTROL CIRCUIT TEST NIT-6300040573 > TENDER DOCUMENT ,Tender Notice No. 6300040573 Dated: 25.05.2026 >, Page no. 62	1. The vehicle Control and Safety interlocks of train are as per the design via various Simulations.	Kindly confirm the scope of the vehicle control circuit and clarify whether integration with the PLC / IBMS is required, or if the complete system is under BEML's scope.	Follow tender condition



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43	General		please share Design concept report or material specifications for Plumbing Services and equipments if any.	The material specifications related to plumbing services are already provided in Technical specifications
44	Tender document,WATER TIGHTNESS TEST,Page no 63	The water used to perform this test will be used again by means of closed loop recycle mode	Please confirm the range of accepted TDS parameters for RO Water to be used for Testing.	Feed Water TDS - <500 ppm. Product water TDS - <100 ppm.
45	Tender document,Requirement of Water,Page no 69 VCS Technical Specification,Requirement of Water,Page no 167	Requirement of water	There is difference in Water Requirement Calculation Identified in both documents , please confirm which one shall be followed.	Please refer Scope of Work Clause 1.6.4.6 for correct water demand requirement.
46	Tender document,Requirement of Water,Page no 69	Water requirement washroom and drinking @ 45 l/pax No. of People around 1600 (1455+10%)	Please confirm the Staff count , additionally confirm as calculation indicated fresh water 45l/pax no. whether the water supply for Urinal and EWC to be used from Fresh Water Storage or it should be considered from Treated flushing water from STP.	Please refer Scope of Work Clause 1.6.4.6 for correct water demand requirement. The treated water from STP is not to be used for flushing purpose.
47	Tender document,Requirement of Water,Page no 69 VCS Tender document 1.6.4.12 RO Plant (Container Based):Page no 72	Total Water Requirement per day - Say 210 Cum	Please confirm the Packaged RO Plant capacity as from calculations it appears to be 0.21 MLD however RO Plant requirement is of 1 MLD.	Follow tender specification
48	Drawing No. MEC-I0047-01-48-D1-XX-12-DR-A-01100	DOMESTIC AND FIRE WATER PUMP HOUSE AND SUMP BUILDING	The Storage Tank for Treated RO Permeate is not highlighted in Drawings , please confirm the Capacity to be maintained and Storage Tank Material i.e. RCC / GFS .	Please refer NIT Clause No. 1.6.4.12 Page No. 72. However, it is clarified that the RO storage tank will have 2 compartments each having 50% of total capacity. Refer the revised master plan for location of RO storage Tank as well as RO system.



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Dated: 05/07/2026

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Tender Notice No. :6300040573

Tender Date: 25.05.2026

Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
49	Tender document,Irrigation System,Page no 74	Total green belt/ landscaping area: 37 acres (approx. 149734 Sq.m)	Based on Landscape Area and NBC 2016 Irrigation Water Requirement for Landscape Area, There shall be Irrigation Storage Tank Requirement. In Water Considerations we did not found required quantity . Please confirm to mitigate the additional Irrigation water requiremet any additional water source to be considered other than trated STP Water.	Irrigation water requirement is proposed to be met with treated STP effluent, Ro reject water and Municipal Corporation supply. The total capacity of fresh water tank proposed along side water supply pump house shall be as per the drawing enclosed in NIT. This storage shall also cater for ilrrigation along with other water requirement of the plant.



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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
50	Tender document, NIT- Page no 69 Clause 1.6.4.6	Water shall be made available to the site at 1 point inside the plot area by municipal corporation	Please share the location of water supply point	Near municipal solid waste disposal plant.
51	General	Excess Drainage Overflow connection	During STP maintenance, any by pass connection upto external sewage drain please share the location	There is no municipal sewer line nearby. Therefore, the bidder has to envisage alternative measures/ facility to divert/ bypass sewage on temporary basis for carrying out STP maintenance. This has to be taken care during STP design.
52	General	Water Dispenser / Water Cooler / Drinking Water Fountain	Please confirm if any specific Area there is requirement of Water Cooler / DWF.	Water Dispenser / Water Cooler / Drinking Water Fountain are not envisaged in this tender. However, drinking water points are to be provided for connecting it into Water Dispenser / Water Cooler / Drinking Water Fountain
53	General		please share Design concept report or material specifications for Fire Protection Services and equipments if any.	The material specifications related to fire protection systems are already provided in Technical specifications
54	Tender document, 1.6.4.3 Fire Station, Page no 67	1.6.4.3 Fire Station	Please confirm the Refilling considerations and Storage for Fire Tender to be considered separately for Fire Station or Shall be filled from Fire Storage Tank and Pump Room.	Fire water storage capacity requirements and tank have already been provided in technical specification and facility drawing
55	NIIT-6300040573	Kitchen Equipment's is a specialized subject, hence the cost of the same is not considered in this document.	Please clarify, whether HVAC for kitchen will be in our scope and also provide the battery limits.	3 Nos. of 40 TR VRF system are proposed for the canteen facility which are covered under the scope of EPC contractor. However, Cooking Area Exhaust System / Kitchen Exhaust System are not included in the scope, however, general exhaust fans of adequate capacity and numbers are to be provided in kitchen for proper ventilation.



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56	NIIT-6300040573	Mechanical ventilation systems (Heavy duty industrial and exhaust fans) supplement natural airflow to maintain indoor air quality and temperature control in zones with heat generating equipment. The EPC contractor to design and assess the number of such exhaust fans with their capacity and location of installation.	Heat dissipation data is required to design the ventilation system of all relevant buildings where ventiationation is required .	EPC contractor to assess and propose as per general industry standard practice for approval from BEML
57	General		Kindly confirm the redundancy requirement for HVAC items.	Redundancy requirement is not there for HVAC system
58	Technical Specifications	The capacity of Air conditioning system shall be arrived based on room sizes, Temperature, RH, Occupancy, solar loads, internal equipment heat loads, lighting loads etc. as per ISHRAE / ASHRAE standards. 20% factor of safety (for de-rating of equipment / air leakages in ducts etc.) shall be considered on the capacity of the equipment.	Heat dissipation is required to design air conditioning system.	EPC contractor to assess and propose as per general industry standard practice for approval from BEML
59	Soil Investigation	Soil Investigation and Topography Survey Report enclosed with the Bid	The Bidder wants to execute Pre-Tender Soil Investigations in form of Confirmatory Bore-Holes and Topography survey at the earliest and seek confirmation from the Employer	Bidders can carryout pre-tender survey and investigation studies at site. Bidders can reach the contact details provided in NIT for furtherance.
60	Date of Submission	Date of Submission = 09-07-2026	Considering the volume and complexity of the Bid , the Bidder requests the Employer to extend the Due Date of Submission of the Bid till 30-07-2026 , to enable the Bidder to submit most competitive and comprehensive Bid.	Refer Corrigendum - 2
61	EMD BG NIT	Bank Guarantee from any of the commercial banks	The folloing details required : Beneficiary Name & Address, Bank Name, Contact Person email Id	The format given for BG against EMD at Annexure - VII may please be followed.
62	Architectural & Interior Finishes Technical specification		Kindly provide Architectural & Interior finishing schedule of all blocks as per the relevent standard.	Please refer Corrigendum - 3.
63	Building plinth Level Drawings PDF_c		Kindly confirm all building plinth level, as per the data received there is no plinth level.	Refer Clause 1.6 Page No. 49 of 189 in NIT.



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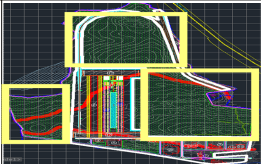
Pre-bid Meeting – BEML Response to Pre-bid Queries from Bidders - Set 2

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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
64	Façade Drawings PDF_c	DRAWING No.: 03G- ANNEX SPACE GROUND FLOOR PLAN, TYPICAL FLOOR PLAN AND SECTIONS	Kindly confirm concept facade details of Car body Fabrication Block and Car body Inspection & testing bay block relavent standard.	Please refer Corrigendum - 3.
65	Landscape Drawings PDF_c	DRAWING No.: MEC-I0047-01-48-D1-XX-06-DR-A-01100	Kindly confirm concept of landscape.	Please refer NIT Scope of work Clause No. 1.6.4.12 Page No. 72
66	Civil Drawings PDF_c		Kindly provide Civil layout drawing of Car Body Inspection & Testing Bay	Please refer Corrigendum - 2.
67	Civil Drawings PDF_c		Kindly share location drawing of Open Yard surrounding manufacturing Block & Inspection/Testing Block . Also pavment floor specification requirement	Heavy duty interlocking paver blocks 80mm thick M65 of approved colour combination and shade shall be used in the area other than plinth protection and Road.
68	Civil Technical specification		Disposal yard location of excavated soil /rock	The disposal of surplus excavated soil/ rock shall be the responsibility of EPC contractor including identification of suitable disposal site outside the plant boundary without any cost implication to BEML
69	DG Backup General		Please confirm the loading on the DG set. Do we need to consider 100% loading on the DG set or only essential load required to properly shut down the plant along with life safety and security related electrical loads. Please confirm	Consider 100% loading on DG set.
70	Hazardous Area Classification General		Kindly share the list of hazardous area if any to be consider.	As per the processes involved in manufacturing only paint booth can be classified as hazardous area which will be housed at 1st floor fabrication bays of the Manufacturing block.
71	Periphery & Green belt area lighting General		Lighting along the plot boundary wall & Green areas as marked in the attached drawing is not envisaged. Please confirm.	Illumination of all roads including peripheral road is envisaged. The bidder to consider this aspect.
72	Voltage Drop Technical	Technical Specification: DESIGN PARAMETERS:	We are considering voltage drop as per NBC 2016. Please confirm.	NBC 2016 norms can be followed subject to meeting functional requirements (viz. Test bay, robotics, testing equipments, EoT cranes, etc.) of the facility with respect to Voltage.



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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
73	Transformer Phase angle Technical [di] Vector groups 11V/1V [Dyn] 11	Technical Specification: 6.6 EQUIPMENT SPECIFICATION: A. POWER TRANSFORMER:	We are considering the vendor group DNyn is typo error and vector group to be considered is Dyn11 for power and distribution transformer, please confirm.	Confirmed.
74	Transformer losses		Transformer losses has not mentioned in the specification for Power & Distribution Transformers. We are considering as per ECSBC 2024, Star rating 1. Kindly confirm.	Star Rating for the Transformer is not required, however, the efficiency of the transformer should be 95% and above.
75	33kV switchgear Specification		Kindly share detailed specification of 33kV Switchgear.	SLD diagram has already been shared in Corrigendum-1. Bidder to assess the requirement on those basis. EPC contractor is responsible for its complete design, procurement, supply, testing and commissioning as per the reputed approved make (Hycone, ABB, Siemens, CG power, Schneider electric, L&T and GE Power).
76	CSS	Technical Specification: G:COMPACT SECONDARY SUBSTATIONS (CSS):	Kindly share detailed specification of 11/433KV Compact Sub-station.	SLD diagram has already been shared in Corrigendum-1. Bidder to assess the requirement on those basis. EPC contractor is responsible for its complete design, procurement, supply, testing and commissioning as per the reputed approved make (Hycone, ABB, Siemens, CG power, Schneider electric, L&T and GE Power).
77	UPS Lighting		We are considering 10% of total light fittings under UPS for emergency lighting with 90 minutes battery backup. Kindly confirm	Confirmed.
78	RO System	Tender Document RO Plant Scope will start from Feed Pump at Pump House located approx. 50-75 mtr.	Please provide: i. Pipe size and material ii. Available pressure at tapping point iii. Minimum and maximum flow availability	EPC contractor is responsible for its complete design, procurement, supply, testing and commissioning as per the reputed approved make. Hence, bidder is to assess and quote accordingly.



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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
79	RO System	RCC Storage Tank of 250 KL to be constructed for RO water storage	Please provide: i. i. Distance to delivery point - ii. Pipeline size and material iii. Required residual pressure at delivery point iv. Storage tank/sump capacity v. Tank operating levels (LLL, LWL, HWL) vi. Elevation difference between RO plant and point of delivery	Please refer the revised master plan for location of RO plant and RCC storage tank. EPC contractor is responsible for its complete design, procurement, supply, testing and commissioning as per the reputed approved make. Hence, bidder is to assess and quote accordingly.
80	RO System	Feed Water and Product Water Quality	i. Complete feed water quality and desired product water quality are required for membrane selection and process design. ii. Please also specify the guaranteed product water quality requirements.	Feed Water TDS - <500 ppm. Product water TDS - <100 ppm.
81	RO System	Requirement of post treatment of produvt water	i. Since the RO water is intended for car body testing and associated industrial applications, re-carbonisation and re-mineralisation may not be required. ii. Please confirm whether the permeate water from the RO system can be utilized directly or whether any post-treatment is envisaged.	No post treatment is envisaged. However, RO should necessarily have pre-filtration unit of adequate capacity
82	RO System	Disposal of RO reject Water	Please clarify the mode of disposal of RO reject water: i. Discharge to drain ii. Discharge to ETP/STP iii. Recycling/recovery system iv. Evaporation pond v. Other disposal arrangement Please provide any applicable environmental or discharge limits.	RO reject water is proposed to be used for irrigation purpose.



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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
83	RO System	Preferred Technology / Approved Vendor	Please confirm whether: i. Any specific RO membrane manufacturer is preferred. ii. Any approved vendor list exists for membranes, pressure vessels, pumps, instrumentation, PLC/SCADA, etc. iii. Any specific RO technology (single-pass, double-pass, high-recovery RO, etc.)	i. Any specific RO membrane manufacturer is preferred - DOW, DuPont, Hydronautics, alfa laval. ii. Any approved vendor list exists for membranes - Pressure vessels, Pumps, instrumentation, PLC/SCADA, etc. - For Membrane and PLC/SCADA preferred makes have already been provided. For rest, Bidder to consider reputed makes for initial assessment of cost , however, the successful bidder will have to get prior approval of proposed vendor from BEML before the supply iii. Any specific RO technology (single-pass, double-pass, high-recovery RO, etc.) - Single-Pass, Minimum net recovery percentage of 70%
84	RO System	Plant Capacity and Operating Philosophy	Please provide: i. Required RO plant capacity (m ³ /hr) ii. Average and peak water demand iii. Daily operating hours iv. Continuous or batch operation v. Future expansion requirements, if any	RO Plant Capacity and water demand has already specified in NIT. It is envisaged that Rain water leakage test shall be carried out for a period of 1 hour at car body shell level and fully assembled coach level.
85	RO System	Recovery and Redundancy Requirements	Please confirm: i. Minimum RO recovery percentage required. Page 167 of the Technical Specification mentions "RO reject water @ 30% of Feed Water". ii. Availability requirements of the plant iii. Standby philosophy (N+1, 100% standby, etc.) iv. Requirement of duty/standby pumps and critical equipment	i. Minimum RO recovery percentage required. Page 167 of the Technical Specification mentions "RO reject water @ 30% of Feed Water - Minimum net recovery percentage is 70% ii. Availability requirements of the plant - 20 hours a day iii. Standby philosophy (N+1, 100% standby, etc.) - No standby is required. iv. Requirement of duty/standby pumps and critical equipment - Nil



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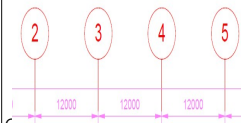
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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
86	RO System	Electrical and Automation Requirements	i. Preferred PLC/SCADA platform ii. Communication protocol requirements iii. Remote monitoring requirements	Siemens, Schneider Electric & ABB - PLC/SCADA platform is required
87	RO System	Performance Guarantees	Please confirm if we need to provide guarantees for: • Permeate flow rate • Product water quality • Salt rejection • Recovery percentage • Membrane life • Specific energy consumption • Overall plant availability	• Permeate flow rate - 50 m3/hr. • Product water quality TDS < 50 ppm, TSS : negligible, SDI < 3, Turbidity : Nil • Salt rejection - 97%-99% • Recovery percentage - Minimum net recovery percentage is 70% • Membrane life - Minimum 5 Years • Specific energy consumption - Energy efficient plant to be provided • Overall plant availability - 20 hours a day
88	RO System	Site Conditions	Please provide: i. Ambient temperature range ii. Water temperature range iii. Available installation area iv. Indoor or outdoor installation requirement v. Seismic, wind load, and corrosion classification requirements	Refer tender specification for Sl. No. iii and iv. Water temperature range - 20-25 degree Celcius. Bidder to assess all other parameters on their own and quote accordingly.
89	Drawing for CAR BODY FABRICATION AND ASSEMBLY FACILITY WITH ANNEX BUILDING (Page 10 of Drawings pdf)	 Grid spacing shown as 12m.	Whether different column grid spacing such as 8m or 10m can be adopted. Please confirm.	24m span cannot be changed, however the spacing of columns in longitudinal direction may be reduced maximum upto 8m with no compromise in functional requirement.



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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
90	General	Minimum depth of foundation not mentioned in NIT/TS.	IS code guideline shall be followed. Please confirm.	Confirmed
91	ANNEX SPACE GROUND FLOOR PLAN, TYPICAL FLOOR PLAN AND SECTIONS (DRAFT)-(Page 11 of Prawings pdf) & 60 Of 189 of the NIT (CI 1.6.1)	be used. However, the frame of the annexe building is to be made up of structural steel. Deck sheet form work can be used for floor casting in the quest. As per first para page 60 Of 189 of the NIT (CI 1.6.1) "the frame of the annex building to be made up of structural steel" . In draft drawing RCC frame shown.	TS shall be followed. Please confirm.	Confirmed
92	DOMESTIC AND FIRE WATER PUMP HOUSE AND SUMP BUILDING-(Page 23 of Prawings pdf) & CI 1.6.4.6 page 68 Of 189 of the NIT	The building is RCC structure building with total Built up area is 850 Sq. m. As per CI 1.6.4.6 page 68 Of 189 of the NIT "The building is RCC structure building" In draft drawing steel roof shown.	TS shall be followed considering all RCC including roof. Please confirm.	Refer Corrigendum - 3 for revised TS.
93	CI 1.6.4.9 page 71 Of 189	As per CI 1.6.4.9 page 71 Of 189 of the NIT "During detail design stage positioning of these compressors within manufacturing block / Inspection Bay, pipeline routing along with technical requirements & BOM will be finalised."	Separate building or shed for compressors shall not be considered. Please confirm.	Separate building is envisaged and is under the scope of EPC contractor.
94	CI 1.4 (III C) page no Page 42 of 189	Traversers Foundation considered in scope of work.	As per discussion at BEML office on 30-07-2026 instead of Traverses Foundation Goliath crane/ Gantry may be used. Only foundation up to supply of rail for the crane shall be under bidders scope in that case. Please confirm.	Confirmed.
95	MRSS BUILDING-(Page 20 of Prawings pdf)	3 nos DG set space shown.	As per discussion at BEML office on 30-07-2026 2 nos DG set envisaged & 2 nos foundation instead of 3 nos shall be considered. Please confirm.	Confirmed.
96	General	Clause 5.0 of the TS page 46 of 261	Percentage area of polycarbonate sheets not mentioned. 5-10% shall be considered.	5% is to be considered.



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97	Technical	Location of TSS Room	Please provide the location of traction substation which feed the 25 kV AC and 750 V DC supply to system	Refer Corrigendum - 3 for location of MRSS and Corrigendum - 1 for SLD.
98	Technical	Equipment specification	Please provide the Specification / make / rating of 750 V DC & 33 kV SWGR and DC & AC Cables .	Please refer SLD for required details.
99	Technical	Equipment specification	kindly confirm the maximum train load capacity	Query is not relevant to the tender
100	Technical	Equipment specification	Please confirm the requirement of S&T	S & T (Signalling and Telecommunication) - Not under the scope of EPC contractor.
101	Tender document 1.6.4.12 RO Plant (Container Based):Page no 72	RO Plant requirement is of 1 MLD.	According to WATER TIGHTNESS TEST - 240 water spraying nozzles to spray water at 2 bar pressure at discharge rate of 7.4 ltr/min/nozzle as per IEC 61133 standard -- According to these considerations the process require 1,06,560 Ltrs /hour/ Testing . Please confirm any other requirement to fit 1 MLD..	Follow tender condition
102	NIIT-6300040573	Fire case smoke extraction requirement for Fabrication-assembly and inspection-testing.	Please confirm for Fire Emergencies Smoke Extraction for Fabrication, Assembly, Testing Plant Building.	Not required. However, general ventilation and exhaust system is to be carried by EPC contractor.
103	NIIT-6300040573	pressurisation system for annexe buildings.	Please confirm for Fire Emergencies Pressurisation Requirements.	Not required.
104	Technical Specifications	Track	The proposed alignment for Siding No. 1 includes a 12° degree of curve. However, this does not comply with the permissible limits specified under the relevant Indian Railways guidelines (as applicable for the project).	The proposed alignment of railway track has been provided as per the space availability for accommodating the required number of tracks for stabling, running test and dispatch. For achieving this, certain engineering adjustments would be needed including speed restrictions. The bidder to quote as per the curve provided. However, during detail engineering, if there is a possibility to accommodate bigger radius, the same shall be welcome by BEML.
105	Technical Specifications	Track	Kindly clarify whether the indicated level 452 refers to the Rail Level (RL) or the Formation Level (FL). This information is essential for verifying the track geometry, formation design, earthwork quantities, and the overall design coordination.	The indicated level i.e. 452m MSL is Rail Level.
106	Technical Specifications	Track	Clarification was sought regarding whether the proposed track shall be designed using Long Welded Rail (LWR) or Fish plated track	The proposed track shall be designed using Long Welded Rail (LWR)



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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
107		Logistic	Connectivity for vehicler movement from NH46 to Project Site. As the existing bituminus road from nearest NH46 connecting point at Bhimvatika to project site are narrow, few narrow culvert seen, few location the over head electric supply line corressed the road. These condition hindered the heavy/long length tailer movement.	Road widening works from NH 46 to project site (Bhimbetka Road) have already been initiated by PWD.
108		Site Temporary Structure	Temporary site infrastructure to be establish within factory premises	The space accommodating the requested temporary facilities shall be provided by BEML within the plant site based on availability on written request by the EPC contractor.
109		Worker Accomodation	Worker accomodation to be established within factory premises with proper hygine	The space for worker accomodation shall be provided by BEML within the plant site based on availability on written request by the EPC contractor.
110		Construction Water	KPIL will provide construction & worker facility water consumption requirement to BEML for municipality water connetion	Though BEML will make all efforts to have water connection at site before start of work which will be on chargeable basis, In the event of being of unsuccessful in its endeavour, the EPC contractor will have to arrange these on their own without wasting any time at their own cost. The prevailing tariff of Municapal water coonection applicable during the period of execution shall be chargeable. In case of multiple users, fixed charges applicable shall be proportionately distributed as per consumption.
111		Construction Power	KPIL will provide construction power consumption requirement to BEML for Electricity Board connetion	Though BEML will make all efforts to have electricity at site before start of work which will be on chargeable basis, In the event of being of unsuccessful in its endeavour, the EPC contractor will have to arrange these on their own without wasting any time at their own cost. The prevailing tariff of Madhya Pradesh Vidyut Vitaran Company applicable during the period of execution shall be chargeable. In case of multiple users, fixed charges applicable shall be proportionately distributed as per consumption.
112		11KV Electric line	11KV over head Electricy supply line crossing along southern side of boundary wall inside factory premises, need to be shifted from factory premisses	Action for shifting of electricity supply line located inside the factory premises has already been initiated.
113	Building Levels / plinth level		Kindly confirm the plinth level of all the block if any for reference. Kindly confirm reshuffle of the blocks as suitable location as per the site condition.	Refer Clause 1.6 Page No. 49 of 189 in NIT.
114	Architectural & Interior Finishes		Kindly provide Architectural & Interior finishing schedule of all blocks as per the relevent standard.	Please refer Corrigendum - 3.



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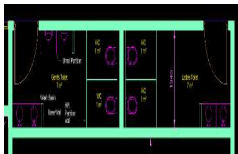
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115	Architectural & Interior DBR		Kindly provide the Architectural DBR if any.	Any specific information required from the report for bidding purpose shall be provided based on the availability.
116	Car body Fabrication Block & Car body Inspection & testing Bay		Kindly provide combine layout of of the block.	Combined Layout of both the blocks are provided in the Master Plan and individual layouts of the blocks are provided in the NIT drawings including its AutoCAD versions.
117	Car body Fabrication Block & Car body Inspection & testing Bay	Annex Detailed Floor 	Kindly confirm any provision of ventilation requirement in toilet area or not.	Yes, provision of adequate ventilation is to be provided in the Toilet Area.
118	Envelop of building (Façade)	DRAWING No.: 03G- ANNEX SPACE GROUND FLOOR PLAN, TYPICAL FLOOR PLAN AND SECTIONS	Kindly confirm concept of facade design of Car body Fabrication Block and Car body Inspection & testing bay block as per the relevant standard.	Please refer corrigendum-3 façade details.
119	Drainage (Waste water & Storm water)		Kindly confirm any proposed layout for drainage. Confirm the demarcated line for landscape area if any.	The STP has been relocated. Please refer the revised master layout. Please refer the Technical specifications for Landscaping details.
120	Landscape	DRAWING No.: MEC-I0047-01-48-D1-XX-06-DR-A-01100	Kindly confirm concept of landscape.	Please refer the Technical specifications for Landscaping details.
121	Scope of work, cl no 1.4 j, page no 43	Obtaining Green Building Rating compliance (Minimum of GRIHA 3-star rating)	Kindly clarify whether certification cost & compliance cost is reimbursable.	The applicable statutory fee for the same shall be reimbursed by BEML upon submission of fee receipt.
122	Technical specification - Door & windows		Kindly confirm same Tech. spec. to be follow for all block.	Please refer corrigendum-3 for building finishes.
123	Furniture details		Kindly confirm about BEML Policy for furniture quantity calculation.	Please refer furniture details provided in NIT
124	NIT-6300040573 Compressed air	Car body Fabrication Block & Car body Inspection & testing Bay	Compressed air block drawing is missing. kindly confirm the location of compressed air location. In NIT Doc. it has been written (air facility at regular interval between the column so that tapping can be made at any point to meet the compressed air requirement).	Please refer corrigendum-3 for compressor air room drawing.



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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
125	NIT-6300040573 - Gas line facility	Car body Fabrication Block & Car body Inspection & testing Bay	kindly confirm the location of gas line provision. In NIT Doc. it has been written (gas line facility at regular interval between the column so that tapping can be made at any point to meet the gas requirement.)	The gases shall be utilised in bay 1 and bay 3 of 1st floor of manufacturing block where the fabrication activities are envisaged. The piping layout to be accordingly assessed and quoted by the bidder.
126	Drawings PDF_c	Gas bank	Kindly provide detail layout of the block.	Layout of the Gas Bank Facility has already been provided in NIT drawings please refer.
127	APPENDIX - C Bill of Quantities Sl.No: C2 - S.No: 8	IT Equipment & ITES - 1-lot	Scope of work, Technical Specifications and Drawings are not provided with Tender document. Request to provide the above details for consideration	It is to be noted that the details available in this tender are from the preliminary/ conceptual level of studies only. The EPC contractor shall be responsible for carrying out detail assessment of IT equipments & ITES to meet the functional requirements of the proposed facilities and propose for approval from BEML during the detail design stage.
128	Technical Specification, Chapter-7 Instrumentation & Process Control Page No: 124 of 261	7.6 NETWORK FOR IP-BASED SYSTEMS The communication backbone supports multiple converged IP systems, each operating within logically segmented networks:	Request to provide the Overall Architectural Layout Drawings of Network for IP based Systems. ERP network for Client ERP system, Technical Specifications and Drawings are not provided. Kindly provide	It is to be noted that the details available in this tender are from the preliminary/ conceptual level of studies only. The EPC contractor shall be responsible for carrying out detail assessment of Networking systems, ERP system, etc. as per general industry standard practice to meet the functional requirements of the proposed facilities and propose for approval from BEML during the detail design stage.
129		ACS SYSTEM	Kindly confirm the anticipated number of users/credentials to be supported by the Access Control System	Bidder to assess as per manpower details provided in Pre-bid Clarifications Set -1.
130		ACS SYSTEM	Kindly confirm the number of door licenses and user licenses to be included in the ACS software.	Bidder to assess as per manpower details provided in Pre-bid Clarifications Set -1.
131	Technical Specification 15.3 proposed facilities Pg no 208/262	BMS	Please be specific about the requirement	IBMS integration shall be as per general industrial standards which is to be provided by EPC contractor for approval



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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
132	NIT CI No:-1.6.2 Coach/Car Inspection & Testing facility Page No: 61 of 189	25KV TESTING TRACK A 25 kV AC power supply has been envisaged inside the Car body inspection bay for a distance of 400m for the testing facility for Commuter rails.	Scope of work, Technical Specifications and Drawings are not provided with Tender document. Request to clarify and confirm the scope of work and provide the details for consideration	Drawings for the Car Body Inspection and Testing Facility is enclosed with Corrigendum-3. For testing of manufactured coaches, a 25KV 50 Hz AC single phase OHE line is to be provided throughout the length of testing bay for transmitting power to the rail coaches. The standards and specification shall be primarily governed by RDSO standards. The work is to be carried out on EPC mode. Please refer SLD.
133	Cl. 3 (F), Sr. No. 2 (F), Pg. 21 of 189 The Bidder should have successfully executed Minimum 02 projects pertaining to railway / workshops / industrial / commercial / Institutional Project on EPC mode each valuing not less than Rs. 216 Crore during last 07 years with In-House Capability in at least Civil & Structure and MEP.		We request authority to give 100% marks in case bidder has completed twice the required Value of works in a single contract. For eg.: In case, bidder submits a single project having completed ₹ 432 Cr. value of works, he should be awarded 100% mark	This clause stands modified refer Corrigendum -1 to be issued shortly
134	NIT Clause: 1.6.3 Inter Bay Traversers Pg No 66 of 189	2-Nos. of Surface type Traversers has been envisaged under this project. 1-No. 75-Ton capacity Traverser area of 240mX32 m. 1-No. 75-Ton capacity Traverser area of 200m X 32m	Since the traverser supply and installation are not within the contractor's scope, kindly provide the wheel load data and dimensions for assessment of civil quantities.	Surface type traversers are now replaced by Goliath Crane. Fully furnished coach weight may be considered as 55T. Bidder to assess the wheel load accordingly.
135	Apendix-C Bill of Quantities and Master Plan Layout	As per A- Land & Site Development Green Belt Area	9- Green Belt Development-37 Acres, Kindly confirm the location of green belt area to be considered, and share revised Master Plan for better clarity.	Green belt area has been shown in the drawngs and the same is provided in Corrigendum-3.
136	Master Plan Layout	Location of STP	STP in master plan is located on higher contour level which is not preferable, Kindly confirm.	The relocated STP is shown in revised layout provided in Corrigendum -3.



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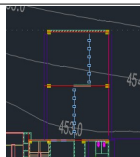
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Sl. No.	RFP Clause Ref. and Page No.	Content of RFP requiring Clarification	Bidder Queries	Response/ Clarification by Customer
137	Drawings PDF_c-Annexe building_page no.11	Additional STP	As per the given Annexe building drainage can not be taken upto the indicated STP on the master plan, kindly confirm additional STP to the west of the site plan.	The relocated STP is shown in revised layout provided in Corrigendum -3.
138	Drawings PDF_c-Annex space ground floor plan, typical floor plan sections. NIT document pg. no. 58	Annex space ground floor plan, typical floor plan sections	The section of Annex building indicates storage area however in typical level plan only open office area is given . kindly provide floor plans for all the levels in the Annex building.	Refer Corrigendum - 3.
139	Drawings PDF_c-Main gate complex with security office_page no.16	Main gate complex with security office access control system	 Kindly provide the details of access control system as shown in master plan.	Please refer revised drawing is provided in Corrigendum-3. Please refer the technical specification to get details of required access control system.
140	Drawings PDF_c-Annex space ground floor plan, typical floor plan sections_page no.11	Glass Specification for Structural Glazing (Annex Building)	Kindly confirm the glass specification proposed for the structural glazing for the Annex Building. Also, kindly confirm whether any acoustic performance requirements are applicable and if acoustic glass needs to be considered for this location.	Acoustics performance is required. The specification for the structural glazing for the Annexe building is provided in Corrigendum - 3.
141	Drawings		Request you to kindly specify the location of the Main receiving substation & emergency power supply system on master plan.	The location of MRSS and EPSS have been marked in Revised master layout provided in Corrigendum-3.
142	O. EXCAVATION AND EARTH WORK: ,NIT,Pg 126	If on the actual excavation, hard rock or ordinary rock is met with the contractor shall intimate the Engineer-in- charge in writing for making necessary price adjustment. Excavation done in ordinary/hard rock will be priced as an authorized extra item	Kindly clarify the clause.	The referred clause has been revised and provided in the Corrigendum - 3.



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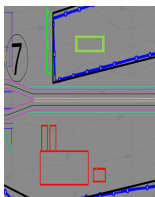
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143	Master Plan Layout Drawing, Drg No. MEC-I0047-01-14-D1-ZZ-ZZZ-DR-J-10100, R06		Kindly provide details about the structure as highlighted green rectangle.	The location of red colour layouts i.e. MRSS shown in this screenshot is not matching with the Master layout provided in the tender. Please refer the revised master layout provided in Corrigendum - 3 for clarifications.
144	General		For testing block arch. Drawings were not received kindly share the drawings for better understanding.	Refer Corrigendum - 3.
145	Section E - Technical Eligibility (Sl.No 23)/Pg.18 & (Pg.24 & 25)	Key Personnel and their min. qualification	There is mismatch in the min. qualification criteria for the following key personnel. The list of which is as below: 1. Project Manager 2. Construction Manager 3. Planning Manager 4. Design Manager 5. Lead Architect 6. Lead Mechincal Engineer 7. Lead Electrical Engineer (Kindly refer to the tables mentioned on pg 18 and pg 24 & 25 for observing this mismatch) Further, we would request that the min. qualification for all key personnels to be set at "Bachelor's Degree".	Please refer Corrigendum - 1.
146	General	Finishing Matrix	Provide Finishing Matrix for All the structures	Please refer Corrigendum - 3.
147	General	Site Grading	Kindly clarify the areas to be considered for site grading	Please refer Corrigendum - 3.
148	General	Architectural Finishing Matrix	Please Furnish the Finishing Matrix, building wise.	Please refer Corrigendum -3.
149	General	Manufacture Shed & Inspection and Testing Shed	Kindly provide section and elevation details.	Detail drawings of Manufacturing shed has already been provided in NIT Drawings. Please refer Corrigendum -3 for Inspection and Testing Bay drawings.



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150	General	Air Compressor Shed	Kindly provide plan, section and elevation	Please refer Corrigendum -3.
151	General	Raw material Storage yard	Kindly provide plan, section and elevation	Please refer Corrigendum -3. EPC contractor to propose detail drawings and get approved by BEML during the detail design stage on the basis of built up area and layout provided in the master layout.
152	Finishes		Kindly provide the architectural finishes matrix	Please refer Corrigendum - 3.
153	Ref. Annexure-7 , page - 14	Bid Guarantee Format	In Bid Guarantee Format, the bidder Director details need to delete as the company is Public Listed Company & BIDDING process would be executed by Power of Attorney holder. Instead , mention company name with register address.	Agreed. The details of power of attorney holder can also be mentioned in BG format.
154	Ref. Annexure-7 , page - 15	Bid Guarantee Format	Bid Guarantee format , the BG validity mention as Bid Valid +60 days, whereas as per NIT page no. 31 the BG valid period is Bid validity +45 days. Please clarify , which should follow.	Please follow as per NIT Page No. 31 i.e. BG shall be having a Validity period of bid validity + 45 days from the date of opening of Tender.