

**Request for Proposal
for**

**Turbine Generator (TG) Package for Overhaul of GMDC's 2X125 MW
Akrimota Thermal Power Station (ATPS), Gujarat**

Answer to Pre-Bid Queries and Corrigendum – IV



**Gujarat Mineral Development Corporation Limited
Khanij Bhavan, 132-Ring Road, Gujarat University Ground,
Vastrapur, Ahmedabad- 380052**

Pre-Bid Meeting Date: 16th June 2023

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Responses to pre-bid queries

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
1.	Part 1, 3.3	The Successful Bidder shall be responsible for on boarding a supervisory team from the OEM (Ansaldo). The supervisory team shall include a 'Technical Expert' with strong technical expertise and experience of over 12 years, and prior experience in Overhauling, having successfully completed at least 2 TG Overhauls of >125 MW in the last 7 years of Ansaldo make, to oversee the execution of the Overhaul	We request to consider other OEM makes also	As per RfP
2.	Part 3, 5.1	At least one Contract of similar work of value > INR 28 Cr, or two Contracts of value > INR 21 Cr, or three Contracts of value > INR 14 Cr in the last seven years (April 2016, FY2017 to March 2023, FY2023)	We request you to please exclude the contract value	<p>Definition of similar works has been modified as follows:</p> <ol style="list-style-type: none"> 1. <u>Contract value</u>: Bidder must have experience in EPC/ O&M / AMC for coal or lignite-fired thermal power plants with a capacity of 250 MW or more, and each unit must be 100 MW or more <p style="text-align: center;">AND</p> <ol style="list-style-type: none"> 2. <u>Capabilities</u>: Bidder must also have experience in the capital overhauling of steam turbine generators of capacity 100 MW or more <p>Bidders are requested to submit relevant portions of work orders / agreements / contracts / completion certificates (with start and end dates clearly specified) / POs /</p>

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				Amount received if client documents are confidential with self-certification
3.	Part 2, 3.3	The supervisors from the OEM will be physically present at the Plant during the entire duration of the execution of the Overhaul. Further, the supervisory team will assist with inspections, troubleshooting, and ensuring the Overhauling is done keeping in mind OEM recommended practices	We request to consider technical assistance other than Ansaldo	As per RfP
4.	Part 3, 2.5	Earnest Money deposit-	In RFP it is mentions as 90 Lakhs, In Nprocure website it is mentioned as 70 Lakhs. Please clarify.	EMD of INR 90 Lakhs to be submitted by the Bidder. Nprocure to be updated accordingly
5.	Part 2, 3.1.1.6	Civil works and Structure modifications	Please specify the quantum of work to be consider.	Clause 3.1.1.6 and Clause 3.1.1.7 (2) of Part 2 of the document hereby stands cancelled from the responsibilities of the Successful Bidder. Clause 3.1.1.7 (1) shall continue to remain in the scope of work of the Successful Bidder.
6.	Part 2, 3.1.1.6	3. While carrying out the Overhauling as per the scope, the Successful Bidder may have to modify the existing equipment foundations or do the excavation work and make new foundations. The Successful Bidder may also have to make new supporting arrangements with / without modified loads for the items / equipment supplied by him. Under	Please specify the scope of work	Clause 3.1.1.6 and Clause 3.1.1.7 (2) of Part 2 of the document hereby stands cancelled from the responsibilities of the Successful Bidder. Clause 3.1.1.7 (1) shall continue to remain in the scope of work of the Successful Bidder.

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7.	Part 2, 3.1.2.4	3.1.2.4. Turbine assembly insulation and cladding on completion of replacement / refurbishment / Overhauling of Steam turbine and related auxiliary equipment the Successful Bidder shall box up and couple /connect the equipment /systems and shall apply new insulation including cladding (for new equipment / dismantled and Overhauled equipment / for equipment where insulation is in damaged condition) as per OEM specification, on the equipment /systems for both units. The supply of insulation material for the same is included in the Successful Bidder scope.	Please specify the type of insulation	The Successful Bidder shall provide necessary insulation including coating, wire mesh, steel mesh, and retaining bolts to ensure max surface temperature of 60-degree C and ambient temperature of 40-degree C. For further information, the Successful Bidder shall be provided access to the OEM design documents post award of contract.
8.	Part 2, 7.2	7.2. Overall ceiling on Liquidated Damages and incentives 1. All liabilities due from the Successful Bidder arising out of the shortfall of performance levels mentioned under Section 7.1, as per the liquidated damages defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 20% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document	We request to consider LD Cap to Maximum 10%	<p><u>Revised Clause 7.1 (Part 2) in Annexure 2</u></p> <p>Amended Clause 7.2, Part 2</p> <ol style="list-style-type: none"> 1. All liabilities due from the Successful Bidder arising out of the shortfall of performance levels mentioned under Section 7.1, as per the liquidated damages defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 10% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document 2. All incentives due to the Successful Bidder arising out of the enhanced performance levels mentioned under

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				Section 7.1, as per the incentives defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 5% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document
9.	Part 2, 10.1	10.1. Insurance of Plant Successful Bidder shall, at their sole cost, in the joint names of Owner, Successful Bidder, and the Sub-Contractors, take insurance cover for full replacement value for the following: 1. "Material Damage Insurance" (Storage-cum-Erection Insurance) on an "All Risk" basis (including terrorists act, SRCC) of loss or of damage arising during period of Insurance coverage to any part of the Contract works, material and supplies Successful Bidder any transit and off-site storage, and anywhere in India for ex-works Indian factory and foreign supplies, materials, etc.	Please clarify in detail related to Insurances.	Successful Bidder shall be responsible for maintaining the following insurance: 1. Equipment damage 2. Third party insurance 3. Personnel 4. Transit insurance 5. Rented equipment 6. Vehicles 7. Tools / tackles 8. Theft / burglary (for material on site) 9. Fire insurance for storage area for material, tools, tackles, etc. supplied or arranged by Successful Bidder
10.	Part 1, 3.1	The Successful Bidder shall guarantee the performance parameters stipulated in Section 7.1 of Part 2 of this document towards successful execution and completion of the Overhaul	The bidder would like to clarify that during Overhaul, the Turbine is not upgraded with improved Steam path. However due to cleaning of bladed rotor and by virtue of replacing certain interstage sealing, the current degradation can be reduced. It is not possible to offer a guarantee of absolute value of Heat Rate after Overhaul. Hence, we request to kindly eliminate this requirement.	The Successful bidder shall demonstrate performance post overhaul as per the revised set of parameters defined in Annexure 2.

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11.	Part 1, 3.1	The scope of work for the Overhaul shall include provision of services under the supervision of OEM experts and supply of OEM spares. Services shall include refurbishment, retrofitting, inspection of equipment, replacing, repairing, Overhauling	The bidder would like to inform that it has adequate expertise, experience, and references to overhaul other OEM (including Ansaldo) Turbine & Generator by its own experts. Bidder is carrying out such COH on multiple units in India. So, the bidder would request the customer to eliminate the requirement of 'Supervision of OEM expert' clause for this job. This shall be applicable everywhere mentioned in the RFQ	As per RfP
12.	Part 1, 3.3	The Successful Bidder shall be responsible for on boarding a supervisory team from the OEM (Ansaldo). The supervisory team shall include a 'Technical Expert' with strong technical expertise	The bidder would like to inform that it has adequate expertise, experience, and references to overhaul other OEM (including Ansaldo) Turbine & Generator by its own experts. Bidder is carrying out such COH on multiple units in India. So, the bidder would request the customer to eliminate the requirement of 'Supervision of OEM expert' clause for this job. This shall be applicable everywhere mentioned in the RFQ	As per RfP
13.	Part 1, 3.5 envisaged to be replaced with new ones having better design features while some of the other components are to be refurbished / upgraded or repaired/ Overhauled by the Successful Bidder under the scope of work.	Bidder understands that the intent of specification is to overhaul the TG and replace the parts 'in-kind' as specified in the elsewhere of this spec. No 'upgrade' is sought under the purview of this specification. Please clarify	As per RfP

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
14.	Part 2, 2.2	4. Capital Overhauling and commissioning of turbines across both units T + 36 weeks	Bidder would like to submit that it's extremely difficult to carry out the overhaul for both the units simultaneously within 6 weeks. Bidder request to plan overhaul one unit after another with certain weeks of gap between both the overhauls. Request to kindly accept the same.	<p>Simultaneous or staggered execution of the Overhaul of the units is left to the discretion of the Successful Bidder. The Successful Bidder shall ensure completion of Overhauling and commissioning of both units within a duration of 12 weeks.</p> <p>The revised timelines for procurement and execution of Overhaul have been detailed in Annexure 3.</p>
15.	Part 2, 3.1.1.7	1. The Successful Bidder shall be responsible for all types of civil works including but not limited to modification of existing foundations base plates, regrouting if any, making new foundation (if applicable), dismantling, restoration, supply and erection of any temporary supports or any other construction work required for execution of the Overhaul.	Bidder understands that the existing civil foundations are in good health and ready for use as is condition without any repair/ modification. The customer is requested to carry out the RLA of all the civil foundation and do the modification by customer if needed And we request to eliminate this criteria.	Clause 3.1.1.6 and Clause 3.1.1.7 (2) of Part 2 of the document hereby stands cancelled from the responsibilities of the Successful Bidder. Clause 3.1.1.7 (1) shall continue to remain in the scope of work of the Successful Bidder.
16.	Part 2, 3.1.1.7	2. The Successful Bidder shall also be responsible for strengthening of the TG foundation, if required, post assessment of the structural integrity of the TG foundation	Bidder understands that the existing TG foundation is in good health and ready for use as is condition without any repair/ modification. Hence, we request to eliminate this criterion.	Clause 3.1.1.6 and Clause 3.1.1.7 (2) of Part 2 of the document hereby stands cancelled from the responsibilities of the Successful Bidder. Clause 3.1.1.7 (1) shall continue to remain in the scope of work of the Successful Bidder.

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17.	Part 2, 3.1.1.8	1. The Successful Bidder shall inspect all installed hangers, spring supports, flexible supports, rigid supports, etc. as per the battery limits defined in Section 3.2 of Part 1, and assess their load bearing capacities, prior to commencement of Overhaul. A detailed list of hangers available at the Plant has been appended in Annexure 4 2. The Successful Bidder shall replace all damaged / unsuitable / non-functional hangers, supports, and associated components, as needed for the execution of the Overhaul	Bidder requests customer to carry out the RLA of existing hangers and provide a list for the hangers to be replaced, so that the bidder can estimate the right quantities of hangers to be replaced for costing purpose.	Inspection of the hangers and necessary repair / replacement shall be in the scope of the Successful Bidder.
18.	Part 2, 3.1.1.8	Since the Overhauling will be conducted on both turbines simultaneously, the Successful Bidder shall arrange for additional jib cranes with skilled operator on the turbine floor, as required.	Bidder requests customer to conduct the overhaul one machine at a time for better and smooth coordination. It will be difficult to overhaul both the machines simultaneously. Operating a jib crane on the TG floor is not advisable.	<p>Simultaneous or staggered execution of the Overhaul of the units is left to the discretion of the Successful Bidder. The Successful Bidder shall ensure completion of Overhauling and commissioning within a duration of 12 week.</p> <p>The revised timelines for procurement and execution of Overhaul have been detailed in Annexure 3.</p> <p>Successful Bidder shall use jib cranes or alternate equipment to carry out the necessary works at its own discretion.</p>
19.	Part 2, 3.1.2.5	The Successful Bidder shall be responsible for civil work involved with the Overhaul of the TG package. Key civil work activities to be undertaken shall include, but not be limited, to the following: 1. Roof sealing and side cladding in the TG Hall which shall include turbine floor roof replacement work, side	As these activities are not directly linked to the TG overhauls, the bidder requests customer to exclude this scope from the overhaul job.	Clause 3.1.2.5 of Part 2 of the document shall not be applicable in the scope of work of the bidder hereof.

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		cladding work, replacement of turbo ventilator 2. Installation of P/F turbine floor roof drain 3. Installation of shutters and windows at turbine floor area 4. Replacement of Turbine roof and turbine roof cladding 5. Repair and replacement of rolling sheet in TG 6. Construction of cable trench in TG area		
20.	Part 2, 3.2	The Successful Bidder shall be responsible for supply of all the material / equipment / spares only from OEM detailed as part of Annexure 2. The Successful Bidder shall procure 02 (two) sets of all material / equipment / spares detailed in Annexure 2 for capital overhauling of both units of the Plant simultaneously	Bidder request customer to supply the OEM spares as free of cost. The bidder would like to do the overhaul service scope. However, bidder has its own indigenous state of art Turbine manufacturing facility, hence given the opportunity to work on this project, we can support GMDC with locally manufactured in kind spares locally, which will have significantly lower cost and shorter delivery time in comparison to imported spares.	As per RfP
21.	Part 2, 7.1.2	Turbine Heat rate Power Output Generator Efficiency Noise Level	The performance guarantees are applicable for renovation and upgradation of existing Turbine Generator. Typically, in overhaul services, these guarantees are not applicable. However, if the customer wishes, the bidder can offer a retrofit solution of Turbine keeping rest of the system as-is. In those cases, the guarantees can be rediscussed and agreed.	The Successful bidder shall demonstrate performance post overhaul as per the revised set of parameters defined in Annexure 2.
22.	-	General	Bidder request to provide recent overhaul reports, PG test reports / technical audit reports etc., if carried out recently on the subject units.	Relevant documents to be shared with the Successful Bidder post commencement of the Contract
23.	Part 2,	The Successful Bidder shall ensure	As the special tools and tackles are provided	As per Clause 3.1.1.2 of the RfP, the

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	3.1.1.2	availability and working condition of the special tools and tackles required for successful completion of Overhaul,	by OEM and are very much machine specific, hence the same should be supplied by Owner.	<p>Successful Bidder shall inspect the tools and tackles post commencement of the Contract and ensure they are available for execution.</p> <p>Bidders shall refer to list of available tools and tackles provided as part of Annexure 3 of the RfP.</p> <p>Bidders may choose to visit the Plant prior to Bid submission to get a better understanding of the scope of work.</p>
24.	Part 2, 10.8	No Limitation of Liability: The required coverage referred to and set forth in this Section shall in no way affect or limit the Successful Bidder's liability with respect to performance of the Work or any obligation under the Contract.	Bidder request to keep Contractor's liability arising out of the Contract will be limited to 100% of the initial Contract Price, except in the case of Contractor's fraud or willful misconduct.	<p>New Clause</p> <p><u>Limitation of Liability</u></p> <p>Notwithstanding any other provisions, except in cases of criminal negligence or willful misconduct,</p> <ol style="list-style-type: none"> Whether express or implied, in no event, whether as a result of breach of contract, warranty, indemnity, tort (including negligence) strict liability or otherwise, shall either Party be liable to the other for loss of contract, loss of profit or revenue, loss of use, loss of data or information, loss of power, cost of replacement power, increased cost of operation and cost of capital or for any indirect, special, collateral or consequential damages. The aggregate liability of the Contractor to the GMDC, whether under the Contract, in

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				tort or otherwise, shall not exceed the total Contract Value, provided that this limitation shall not apply to any obligation of the Contractor to indemnify the GMDC with respect to patent infringement.
25.	Part 2, 11	For any reasons, if it is required, the Owner reserves rights to cancel, terminate, amend and / or alter the Contract and / or bifurcate and / or increase and/or reduce the Contract work at any time without giving any notice or reason to the Successful Bidder and without incurring any responsibility.	Bidder request to change the clause as follows: Upon termination of the Contract for Owner convenience, Owner Default or Prolonged Force Majeure, Contractor will be entitled to be paid i. the portion of the Contract Price properly attributable to those parts of the Works performed prior to the date of termination; ii. costs incurred by Contractor in connection with the demobilization of resources and equipment due to such termination; iii. costs incurred by Contractor in connection with items procured or manufactured by Contractor for which Contractor has not been paid; iv. cancellation costs incurred by Contractor for equipment, materials, works and services procured from Subcontractors to the date of termination; v. any other costs incurred by the Contractor arising out of such termination; and an amount equal to 15% of the remainder of the unpaid Contract Price.	As per RfP
26.	-	General	Bidder request to add clause for Termination by Contractor for Owner Default: Contractor may immediately terminate the Contract if Owner: fails to pay any amount due and payable to Contractor and such failure continues for 30 days after written notice; b.	As per RfP

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			is insolvent and such insolvency is not cured or discharged within 90 days; c. fails to maintain the insurances required to be maintained by it under the Contract and such failure continues for 30 days after written notice; and/or commits a material breach of the Contract for which the Contract does not provide an exclusive remedy and fails to cure the breach within 30 days of notice, or if it is not possible to cure the breach within 30 days of such notice, fails to commence to cure the breach within 30 days or fails thereafter to continue diligent efforts to complete the cure as soon as reasonably possible.	
27.	-	General	Bidder request to add Suspension clause as below: Contractor's Right of Suspension: Contractor will be entitled to immediately suspend the Works if Owner: a. becomes insolvent; b. fails to pay any amount due and payable to Contractor within 30 days of it becoming due; c. fails to maintain the insurances required to be maintained by it under the Contract; d. commits a material breach of the Contract for which the Contract does not provide an exclusive remedy; and/or where it controls all or part of the Site where Works are to be performed by Contractor, fails to maintain a safe workplace.	As per RfP
28.	Part 2, 12.12	For delay arising out of Force Majeure, the Successful Bidder will not claim extension in completion date for a period exceeding the period of delay attributable to the causes of	Bidder propose following mitigation plan in case of force majeure: "Force Majeure Event" will be defined to mean any act, event or circumstance or any combination of acts,	As per RfP

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		<p>Force Majeure and neither company nor the Successful Bidder shall be liable to pay extra costs (like increase in rates, remobilization, advance, idle charges for labor and machinery etc.) provided it is mutually established that the Force Majeure conditions did actually exist</p>	<p>events or circumstances which: a. is beyond the reasonable control of the Affected Party (or its Subcontractors); is without fault or negligence on the part of the Affected Party (or its Subcontractors) and is not the direct or indirect result of a breach by the Affected Party (or its Subcontractors) of any of its obligations under the Contract; c. could not have been reasonably avoided by the Affected Party (or its Subcontractors) acting in a reasonable and prudent manner; and d. prevents, hinders or delays the Affected Party in its performance of some or all of its obligations under the Contract. Force Majeure Event will include (without limitation) any of the following acts, events or circumstances: i. an act of God, including drought, earthquake, volcanic eruption, landslide, flood, storm, lightning strike, cyclone, tornado, typhoon or other natural disasters; ii. epidemic or plague; iii. fire, explosion or radioactive or chemical contamination; iv. any type of transportation accident; v. embargoes, war, hostilities, belligerence, blockade, acts of terrorism, sabotage, civil commotion, civil disturbances, riot, revolution, insurrection or piracy; vi. strikes or other labor disturbances. Excused Performance If either Party is prevented, hindered or delayed in its performance of all (or part) of its obligations under the Contract because of a Force Majeure Event, that Party (the "Affected Party") will be excused from</p>	

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			whatever performance is affected by the Force Majeure Event to the extent so affected.	
29.	-	General	Bidder request to kindly make the provisions of online participation also in pre bid meeting. This will enable participation of larger experienced team.	Link for online participation published on GMDC's website
30.	Part 2, 1.5	Commencement of Contract: The Successful Bidder, along with the payment of Performance Security, will enter into a Contract with the Owner on appropriate Stamp Paper (to be provided by the Successful Bidder) in token of acceptance of the terms and conditions of the contract, within 7 (seven) days of submission of its acceptance of the Letter of Award (LOA). In case of any necessity arising after executing the Contract and during the execution of the work, which requires alteration/modifications in the Contract, the same can be made in writing by either party, after mutual understanding and consent of both the parties. The Successful Bidder will have to start the work as per the Scope of Work described in the Section 3 of Part 2 of this document, within 7 (seven) days from the date of acceptance of the LOA. In case of failure to commence the work within the abovementioned period, the liquidated damages shall be levied as per the provision of Section 7.1 of Part 2 of this document	Expected submission date of LOA? (month/year)	The expected submission date of the LoA shall be communicated post the evaluation of Bids and identification of the Preferred Bidder

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31.	Part 2, 3.1.1.5	Infrastructure Arrangement: While the Owner will arrange for the accommodation and food for Successful Bidder's personnel deployed in the Plant on the basis of availability and on chargeable basis, in case infrastructure is not available, the Successful Bidder shall be responsible for arranging the same for the entire course the Overhaul.	Please clarify the status, conditions and capabilities of Owner accommodations	<p>While the Owner will arrange for the accommodation and food for Successful Bidder's personnel deployed in the Plant based on availability and on a chargeable basis, in case infrastructure is not available, the Successful Bidder shall be responsible for arranging the same for the entire course the Overhaul.</p> <p>The Owner will make the available infrastructure accessible during the time period based on availability.</p> <p>For remaining accommodation requirements, the Owner will provide access to space on the plant premises. Bidders can setup temporary shelters at their own cost.</p>
32.	Part 2, 3.1.3.1	Seating of the slot wedge: Inspect the wedging, tangential wedging, rewedging	Rewedging materials and resins must be present at site to do partial rewedging based on conditions. Please add this to Supply scope	<p>Clause 3.1.3.1, Plan 3 - Stator Winding shall be read in conjunction with the following:</p> <p>The Successful Bidder shall be responsible for supply of rewedging material, resins, and other material / consumables required for the rewedging.</p>
33.	Part 2, 7.1.2	Performance Based KPIs	Please share if available current actual values of performance parameters.	<p>Measured values across critical parameters at the plant for both units at ATPS have been detailed in Annexure 4.</p> <p>Bidders are encouraged to visit the plant for further information, if needed.</p>
34.	Part 2, 3.1.3.1	Bearing Journal: Check for condition of surface. If needed, re-machine	Please share details, if available on bearings status. Also, additional details on site	Inspection of the bearing journals shall be in the scope of the Successful Bidder.

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			workshop lathe machine status.	Precision Lathe (12 feet) and Lathe Machine (3 feet) are available and in working condition. Successful Bidder shall be given access to the workshop as per the equipment usage plan created by the PMC during execution of the overhaul (Clause 3.1.1.2).
35.	Part 2, 3.1.2.3		Bidder recommends also RadAx TIL application on IP section.	As per RfP
36.	Part 2, 3.2.3	Material Management: The Successful Bidder shall deploy appropriate material management systems (e.g., ERP solutions) to track movement of material and adherence to schedules and quality. Further, the Successful Bidder shall integrate the system with the digital data sheet described in Section 3.2.1 of Part 2 of this document.	Deployment of material management systems and integration with digital data sheet not applicable	As per RfP
37.	Part 2, 3.2.6	FATs	FATs to only be conducted where applicable	As per RfP
38.	Part 2, 3.2.6	SATs	Site acceptance tests are not applicable. Site acceptance is to be considered as formal acceptance document of Spare parts at site.	As per RfP
39.	Part 2, 3.2.7	Storage of material in plant: The Successful Bidder shall be responsible for storage of all procured material / equipment at the Plant within the Successful Bidder's shed. The Successful Bidder shall be solely responsible for security of the material / equipment at the Plant. In case of theft / burglary / loss of material, the Successful Bidder shall bear the cost of replenishing the material and ensure	Storage of material in Plant to be Owner's responsibility	As per RfP

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		timely delivery to minimize impact on the execution of the Overhaul		
40.	Part 2, 7.2.2	All liabilities due from the Successful Bidder arising out of the shortfall of performance levels mentioned under Section 7.1, as per the liquidated damages defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 20% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document 2. All incentives due to the Successful Bidder arising out of the enhanced performance levels mentioned under Section 7.1, as per the incentives defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 5% of the lump sum price for Overhaul execution defined in Section 9.1 of Part 2 of this document	Maximum 5% for Supply of material and 5%for Overhaul execution.	<p><u>Revised Clause 7.1 (Part 2) in Annexure 2</u></p> <p>Amended Clause 7.2, Part 2</p> <ol style="list-style-type: none"> 1. All liabilities due from the Successful Bidder arising out of the shortfall of performance levels mentioned under Section 7.1, as per the liquidated damages defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 10% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document 2. All incentives due to the Successful Bidder arising out of the enhanced performance levels mentioned under Section 7.1, as per the incentives defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 5% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document
41.	Part 2, 8, Defect Liability	The Successful Bidder warrants that the TG and associated auxiliaries or any part thereof shall be free from defects in the design, engineering, materials, and workmanship of	Bidder shall warrant the parts supplied and the work performed by the bidder will be free from defects in design engineering, materials and workmanship.	<p><u>Revised clause:</u></p> <p>The Successful Bidder warrants that the material / equipment / spares and services</p>

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		the equipment supplied and of the work executed		performed by it as per the scope of work defined in Section 3 shall be free from defects in the design, engineering, materials, and workmanship of the equipment supplied and of the work executed
42.	Part 2, 8, Defect Liability	If the equipment or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period shall be extended by a period equal to the period during which the equipment or such part cannot be used by the Owner because of any of the aforesaid reasons. Upon correction of the defects in the equipment or any part thereof by repair/replacement, such repair/replacement shall have the Defect Liability Period extended by a period of twelve (12) month from the time such replacement/repair of the equipment or any part thereof	Extension of the original Defect liability period for repaired or replaced part(s) or equipment will not cause the total Defect liability period go beyond 24 months from the beginning of the original Defect liability period.	Clause 8 (subpoint 2) shall be read in conjunction with the following: The total Defect Liability Period, including the extension of the original Defect Liability Period for replacement / repair of defective part(s) shall be limited to 24 (twenty-four) months from the beginning of the Defect Liability Period
43.	Part 2, 8, Defect Liability	At the end of the Defect Liability Period, the Successful Bidder liability ceases except for latent defects. The Successful Bidder's liability for latent defects warranty shall be limited to a period of five (5) years from the end of Defect Liability Period. For the purpose of this clause, the latent defects shall be the defects inherently lying within the material or arising out of design deficiency which do not manifest themselves during the Defect Liability Period	Latent defects shall be covered by warranty for the same period stated for the other defects (Defect liability Period).	As per RfP
44.	Part 2, 8, Defect	In case, there is any dispute between Owner and Successful Bidder regarding latent	In such a case Parties will seek support in Arbitration procedure.	As per RfP

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
	Liability	defects, a third party as mutually agreed upon by the Owner and the Successful Bidder shall be engaged by the Owner for settling the dispute		
45.	Part 2, 8, Defect Liability	The third party, so engaged by the Owner, shall be paid fee plus reasonable expenditures incurred in the execution of its duties as mentioned above. These costs shall be recoverable from the Successful Bidder and the Successful Bidder shall bear and / or reimburse such costs to the Owner if the latent defect has been proved. If the dispute regarding latent defects cannot be settled as above, then the dispute shall be settled as per Section 12.6 (Arbitration) as deemed fit	Bidder asks to delete.	As per RfP
46.	Part 2, 9.2	Payment Milestones	<p>Revised payment milestones:</p> <p>For supply: Mobilization Fee and raw material advance payment: 40% - T+4 weeks</p> <p>Dispatch of all equipment/spares, material - satisfactory evidence of FATs and shipment to be provided, through LC or bank transfer and invoices to be produced: 55% - T+46 weeks</p> <p>Completion of SATs for equipment across both units and issue of certificate by PMC: 5% - T+52 weeks</p>	Revised payment milestones have been detailed in Annexure 5.

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
			<p>Service: Mobilization Fee: 25% - T+2 weeks</p> <p>Start of Mechanical activities (Completion of dismantling): 35% - T+56 weeks</p> <p>End of Mechanical Activities: 35% - T+64 weeks</p> <p>Completion of Guarantee Tests for both units and issue of Operation Acceptance Certificate by the PMC: 5% - T+68 weeks</p>	
47.	Part 2, 1.3	<p>Law, language, and measurements Applicable Law to this Contract shall be the Indian Law. The respective rights, privileges, duties and obligations of the Owner and the Successful Bidder under the Contract shall be governed and determined by the Laws of State and of the Republic of India. All correspondence, information, literature, data, manuals, definitive documents, notices, waivers, and all other communication, written or otherwise, between the Parties in connection with this Contract shall be in English. The official text of this Contract shall be English. All measurements shall be in metric system.</p>	<p>Bidder proposes English law instead of Indian law</p>	<p>As per RfP. Laws pertinent to place of execution of the works shall be applicable (i.e., Indian Laws).</p>
48.	Part 2, 2.1	<p>In case of a requirement of other works which are not covered in the scope of work detailed in Section 3 of Part 2 of this document, but the same is necessary for successful completion of the capital overhauling of the</p>	<p>Any additional Work, not part of Agreed contract Scope of Work, shall be treated as Extra-work, to be paid on time and material basis.</p>	<p><u>Rate Settlement Committee:</u> During the execution of the Overhaul, if the Successful Bidder identifies additional items to be procured and associated services to be</p>

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
		turbine generator, the Successful Bidder may be assigned that work at the lowest rate derived and mutually agreed between the Successful Bidder and the Owner.		<p>performed, over and above SoW defined in the RfP, to restore the health of the equipment and ensure performance, such items and services shall be notified to the competent authorities of the PMC and the Owner prior to initiation of procurement or execution of the services.</p> <p>A 'Rate Settlement Committee' shall be established with competent authorities from the PMC and the Owner. The TG Package Leader shall present the need for the additional items and / or services to the 'Rate Settlement Committee', with a rationale for the quantities of items to be procured and rates for the items and / or services discovered in the market. The committee shall reserve the right to negotiate the rates and authorize the Successful Bidder to initiate procurement of the identified items and / or execution of the services.</p>
49.	Part 2, 4.2.3	The Owner reserves the rights to access all records, documents, and data relating to the services provided by the Successful Bidder during the preparation and the execution of the Overhaul, including for making copies thereof or extracts. The Owner shall have the right, at all times, on reasonable notice and at the premises of the Successful Bidder to examine drawings / design documents which have been prepared by the Successful Bidder	Bidder proposes to delete this article.	As per RfP
50.	Part 2, 7.1	Key Performance Indicators	These KPIs are to be discussed, as a general	The Successful bidder shall demonstrate

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
			comment rejection cannot be accepted.	performance post overhaul as per the revised set of parameters defined in Annexure 2.
51.	Part 2, 7.2	<p>1. All liabilities due from the Successful Bidder arising out of the shortfall of performance levels mentioned under Section 7.1, as per the liquidated damages defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 20% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document</p> <p>2. All incentives due to the Successful Bidder arising out of the enhanced performance levels mentioned under Section 7.1, as per the incentives defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 5% of the lump sum price for Overhaul execution defined in Section 9.1 of Part 2 of this document</p>	<p>1. Bidder proposes a cap for all LDs equal to 5% of the lump sum price for supply of material and Overhaul execution.</p> <p>2. Bidder proposes as cap for all incentives 5% of the lump sum price for supply of material and Overhaul execution.</p>	<p><u>Revised Clause 7.1 (Part 2) in Annexure 2</u></p> <p>Amended Clause 7.2, Part 2</p> <p>1. All liabilities due from the Successful Bidder arising out of the shortfall of performance levels mentioned under Section 7.1, as per the liquidated damages defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 10% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document</p> <p>2. All incentives due to the Successful Bidder arising out of the enhanced performance levels mentioned under Section 7.1, as per the incentives defined in Section 7.1, during the course of the Overhaul, shall be restricted to a maximum of 5% of the lump sum price for supply of material and Overhaul execution defined in Section 9.1 of Part 2 of this document</p>
52.	Part 2, 11, Non fulfilment of terms and	If at any time during the currency of this contract, if any breach occurs due to the reasons attributed to the Successful Bidder, the Owner shall be at liberty to terminate this	If at any time during the currency of this contract, if any material breach of the obligations under the contract occurs due to the reasons attributed to the Successful	<p><u>Revised clause:</u></p> <p>If at any time during the currency of this contract, if any material breach of the</p>

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
	conditions under contract	contract without assigning any reasons, whatsoever, for such termination and any losses and/or damages occurring due to such termination shall be borne by the Successful Bidder.	Bidder, The Owner will have the right to terminate the contract after a cure period of at least 30 days following the Owner's written notification to the Successful Bidder. Any direct damages occurring due to such termination will be borne by the Successful Bidder within the limit of liability stated in the contract.	obligations under the Contract occurs due to the reasons attributed to the Successful Bidder, the Owner shall have the right to terminate the Contract with a cure period of 30 days following the Owner's written notification to the Successful Bidder. Any direct damages occurring due to such termination will be borne by the Successful Bidder within the limit of liability stated in the contract.
53.	Part 2, 11, Non fulfilment of terms and conditions under contract	If the Successful Bidder fails to carry out the work as per terms and conditions of the contract to the satisfaction of the Owner, the Owner shall be entitled to forfeit the Performance Security paid by the Successful Bidder as per Section 7.3 of Part 3 of this document. This, however, shall not absolve the Successful Bidder from its obligation to fulfill the contract. In such event, the Owner shall have a right to complete and / or to get the work completed at the cost & risk of the Successful Bidder and the Successful Bidder shall be responsible to pay such cost incurred by the Owner to complete the work and / or to get the work completed	Clause to be modified to: If the Successful bidder fails to carry out the work as per the terms and conditions of the contract and this is a reason to entitle Owner to forfeit the Performance Security, then Owner will have the title to forfeit the Performance Security in accordance with this contract. This, however, shall not absolve the Successful bidder from its obligations to fulfill the contract. In such event, the Owner shall have a right to complete and/or to get the work completed at the cost of the Successful bidder and the Successful bidder shall be responsible to pay for such cost incurred by the Owner to complete the work.	As per RfP
54.	Part 2, 11, Non fulfilment of terms and conditions under contract	Likewise, if the Successful Bidder does not fulfill the terms and conditions of the Contract and does not carry out the work up to the entire satisfaction of the Owner, the Owner has the right to forthwith terminate the Contract at its sole discretion, without assigning any reason, Under such events, the	Clause to be deleted	Revised clause: If the Successful Bidder does not fulfill the terms and conditions of the Contract and does not carry out the work up to the entire satisfaction of the Owner, the Owner has the right to forthwith terminate the Contract at its

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
		Owner shall be entitled to forfeit the Performance Security paid by the Successful Bidder as per Section 7.3 of Part 3 of this document, and the Owner shall have a right to complete the work and / or to get the work completed at the risk and cost of the Successful Bidder		sole discretion, with a cure period of 30 days. Under such events, the Owner shall be entitled to forfeit the Performance Security paid by the Successful Bidder as per Section 7.3 of Part 3 of this document, and the Owner shall have a right to complete the work and / or to get the work completed at the risk and cost of the Successful Bidder
55.	Part 2, 11, Non fulfilment of terms and conditions under contract	For any reasons, if it is required, the Owner reserves rights to cancel, terminate, amend and / or alter the Contract and / or bifurcate and / or increase and/or reduce the Contract work at any time without giving any notice or reason to the Successful Bidder and without incurring any responsibility.	Clause to be deleted	Revised clause: For any reasons, if it is required, the Owner reserves rights to cancel, terminate, amend and / or alter the Contract and / or bifurcate and / or increase and/or reduce the Contract work at any time by giving a cure period of 30 days.
56.	Part 2, 12	Statutory Obligations	Bidder proposes to discuss and verify application of such Statutory obligations at a further stage.	As per RfP
57.	Part 2, 12.6, 12.7, 12.8	Arbitration, governing law and jurisdiction	Governing Law: This contract shall be constructed and interpreted in accordance with the laws of England.	As per RfP
58.	Part 2, 12.6, 12.7, 12.8	Arbitration, governing law and jurisdiction	Clause to be modified to: Settlement of Disputes: All disputes arising out of or in connection with the present contract shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by three arbitrators appointed in accordance with the said Rules. The seat of arbitration shall be London (United Kingdom) and the language shall be	As per RfP

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
			English. The arbitration shall be confidential.	
59.	-		<p>Addition of Limitation of liability clause</p> <p>1. Notwithstanding any other provisions herein to the contrary neither Party shall be liable to the other arising out of or under this Contract for any overheads, loss of actual or anticipated profit, loss of revenue, loss of use, loss of production, loss of data, loss of interest, loss of financing costs, loss of opportunity or goodwill or loss of contracts, cost of capital, cost of replacement power, financing costs, fuel costs or for any indirect, incidental or consequential loss, damages or expense or any other purely financial or economic loss whatsoever may be suffered by the other Party, its customers or third parties.</p> <p>2. The remedies specified in this Contract shall be the Owner's sole and entire remedy in respect of any breach, non-conformity of or defects with respect to the Agreement to the exclusion of any other remedies that may be available to it at law, tort or otherwise.</p> <p>3. Notwithstanding any other provision herein to the contrary the total liability of the Successful Bidder on all claims of any kind whether in contract, indemnity, warranty, tort (including ordinary negligence), strict liability or otherwise arising out of or in connection with the performance or breach of the Contract shall not exceed the 100% of contract value.</p>	<p>New Clause</p> <p><u>Limitation of Liability</u></p> <p>Notwithstanding any other provisions, except in cases of criminal negligence or willful misconduct,</p> <p>1. Whether express or implied, in no event, whether as a result of breach of contract, warranty, indemnity, tort (including negligence) strict liability or otherwise, shall either Party be liable to the other for loss of contract, loss of profit or revenue, loss of use, loss of data or information, loss of power, cost of replacement power, increased cost of operation and cost of capital or for any indirect, special, collateral or consequential damages.</p> <p>2. The aggregate liability of the Contractor to the GMDC, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Value, provided that this limitation shall not apply to any obligation of the Contractor to indemnify the GMDC with respect to patent infringement.</p>

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
60.	Part 2, 3.1.1.4	Civil lead: Supervisor for civil activities	To be excluded	Accepted. Revised requirements for workforce deployment detailed in Annexure 6.
61.	Part 2, 3.1.1.7	Structural modifications / strengthening 1. The Successful Bidder shall be responsible for all structural modifications/ strengthening of existing structure including supply, fabrication, and erection of any new structure to support piping, equipment, and provision of any additional platform if required for access to new equipment, or any other structural modification works required for execution of the Overhaul 2. The Successful Bidder shall also be responsible for strengthening of the TG foundation, if required, post assessment of the structural integrity of the TG foundation	Clause to be excluded	Clause 3.1.1.6 and Clause 3.1.1.7 (2) of Part 2 of the document hereby stands cancelled from the responsibilities of the Successful Bidder. Clause 3.1.1.7 (1) shall continue to remain in the scope of work of the Successful Bidder.
62.	Part 2, 3.1.1.5, (3)	For timely and successful completion of the Overhaul, if new set of skilled operators are required for workshop equipment, the Successful Bidder shall arrange the same at its own cost	Clause to be excluded	As per RfP
63.	Part 2, 3.1.1.5 and 3.1.2.5	Civil works for turbine and generator	All civil works excluded	Clause 3.1.2.5 of Part 2 of the document hereby stands cancelled from the responsibilities of the Successful Bidder.
64.	Part 2, 3.1.1.14	The Successful Bidder shall make own arrangement for proper electrical grounding of all systems, supplied by him as required by the system design. All required accessories including grounding cables are also included in Successful Bidder scope	Clause to be excluded	Points for necessary grounding shall be indicated by the Owner. Connecting to the grounding shall be in the scope of the Successful Bidder.
65.	Part 2,	While carrying out the Overhauling as per the	Clause to be excluded	Clause 3.1.1.14 (3) hereby stands cancelled

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
	3.1.1.14	scope, the Successful Bidder may have to modify the existing equipment foundations or do the excavation work and make new foundations. The Successful Bidder may also have to make new supporting arrangements with / without modified loads for the items / equipment supplied by him. Under all such conditions Successful Bidder shall be solely responsible for ensuring the safety of the adjacent equipment / foundations and of the existing supporting structures. The Overhauling work by the Successful Bidder shall be carried out in such a manner that no damage is caused to existing equipment / foundations / structure and all precautions, including strengthening of existing structures, as may be necessary, shall be taken by the Successful		from the responsibilities of the successful Bidder.
66.	Part 2, 3.1.1.10	Cranes 1. Since the Overhauling will be conducted on both turbines simultaneously, the Successful Bidder shall arrange for additional jib cranes with skilled operator on the turbine floor, as required 2. The Successful Bidder shall be responsible for load testing and certification of EOT cranes along with qualified crane operators available at the Plant prior to the start of the Overhaul	possible jib cranes activities interferences. Overhead crane valid and certificated is at Owner's care	As per RfP, testing and certification of EOT cranes shall be in the Successful Bidder's scope. Successful Bidder shall use jib cranes or alternate equipment to carry out the necessary works at its own discretion.
67.	Part 2, 3.1.1.11	Air compressors Since the Overhauling will be conducted on both turbines simultaneously, the Successful Bidder shall	Connecting points availability and switch is at Owner's care	The Owner shall provide access to connecting points with switches.

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
		arrange for portable air compressors for carrying out the works during the shutdown, as needed. The Successful Bidder shall arrange suitable cables, Terminations/ Joints for extending power from the existing source/ socket to portable compressors/ other power machines.		
68.	Part 2, 3.1.3.1	DC voltage examination: High voltage test including PI, Overvoltage proof, Tan delta, PD, Bump Test, etc. according to relevant OEM guidelines	Following our experience, bump tests are not necessary for this type of generator. If during inspections there is any evidence that bump test is needed, this shall be quoted as extra work.	As per RfP
69.	Part 2, 3.1.2.3	Impulse Wheel: Eddy current test of the relief bores between individual blades	Not applicable.	Requirement for eddy current test shall be identified in consultation with the OEM supervisory team and mutually agreed during overhaul execution.
70.	Part 2, 3.1.2.3	Reaction blade: Inspect visually (endoscopic check) the stationary and rotating blades for damages, erosion, deposits, and friction marks	Not applicable	As per RfP
71.	Part 2, 3.1.2.3	Rotor root: If the C-inspection is carried out after 100,000 equivalent operating hours (option), make an ultrasonic check of the fir-tree grooves of the last rotating blade row after approx. 50,000 equivalent operating hours. This can be done in the assembled condition.	No UT. MT only on disassembled blades.	Agreed. MT shall be carried out on disassembled blades
72.	Part 2, 3.1.2.3	Coupling bolts: Measure length, replace bolts if $\epsilon > 1.0\%$	Standard NDT and dimensional checks, no elongation measurement	As per RfP, Successful Bidder shall replace bolts if $\epsilon > 1.0\%$ as per OEM guidelines.
73.	Part 2,	Jacking Oil Pump: Check functioning, check	Only roll-in roll-out and overhaul of the	As per RfP.

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
	3.1.2.3	motors; Overhaul drive motors; Dismantle the pump completely, check parts for damage and wear; repair or replace.	operated equipment to be overhauled offline in shop	
74.	Part 2, 3.1.3.1	Slip Rings Surface	Not applicable	Successful Bidder shall conduct visual inspection of slip ring assembly and slip rings outer surface, as applicable.
75.	Part 2, 3.1.3.1	Excitation Panels: Inspection, functional tests, parameter checking, preventive maintenance, including supply and replacement of defective / non-functional accessories and static excitation system cards, if require	System is obsolete, bidder cannot guarantee the supply of needed parts. Only parts available at site can be replaced.	Successful Bidder shall inspect the availability of required parts at the plant and replace, as needed. Successful Bidder shall arrange for upgraded parts against obsolete parts, as required.
76.	Part 2, 3.1.3.1	Excitation Transformer: Inspection, preventive maintenance, including supply and replacement of defective / non-functional accessories, if required Inspect excitation protection relay and replace if needed	Not applicable. Excluded from Contractor battery limits	Excitation transformer has been excluded from the Successful Bidder's scope.
77.	Annexure 1	Excitation System	Please confirm that the exciter is EAA scheme number 10G5426	Exciter is EAA scheme number 10G5426
78.	Annexure 2	Excitation System Spares	System is obsolete, bidder cannot guarantee the supply of needed parts. Only available sparts shall be supplied.	Successful Bidder shall inspect the availability of required parts at the plant and replace, as needed. Successful Bidder shall arrange for upgraded parts against obsolete parts, as required.
79.	Part 2, 7.1	Key Performance Indicators	Nominal Performances cannot be warranted. Bidder shall proceed with a pre- testing of the needed parameters. Following the Overhaul, a post-performance test shall be done (Bidder suggests enthalpy drop calculations on HP/IP	The Successful bidder shall demonstrate performance post overhaul as per the revised set of parameters defined in Annexure 2.

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
			section for Power Output). Performance guarantee can be provided between pre and post performances, with a tolerance of 1%.	

Annexure 1: Spares for Turbine and TG Overhaul

The revised list of required spares to be procured as per OEM guidelines is provided below. The Successful Bidder shall be responsible for procuring **02 (two) sets** of the spares mentioned below.

1. Spares for Turbine Overhauling:

Items	Description	Quantity	U.o.M.
1	WELD-IN RING	2	Pcs
2	SEAL RING	2	Pcs
3	CYLINDRICAL PIN	3	Pcs
4	CYLINDRICAL PIN 8 X 60	2	Pcs
5	ELASTIC RING	1	Pcs
6	GASKET	1	Pcs
7	"DU" BUSHING	2	Pcs
8	GUIDE STRIP L=391,3	1	Pcs
9	GUIDE STRIP L=290,8	1	Pcs
10	SLIDING RING	2	Pcs
11	SLIDING RING	1	Pcs
12	STRIPPER, PLASTIC	1	Pcs
13	OIL SCRAPPER	1	Pcs
14	GASKET O-RING 164,5x5,34	1	Pcs
15	GASKET O-RING 139,1x7,0	1	Pcs
16	GASKET OR 4462 GACO P5 O	2	Pcs
17	GASKET O-RING 88,27x5,34	1	Pcs
18	GASKET O-RING 29,75x3,53	1	Pcs
19	GASKET 7,66x1,78 DF150	2	Pcs
20	SOCKET HEAD SCREW M16x55	2	Pcs
21	HEXAGONAL HEAD SCREW M12x40	3	Pcs
22	ELASTIC RING	1	Pcs
23	GASKET	1	Pcs
24	"DU" BUSHING	2	Pcs
25	GUIDE STRIP L=391,3	1	Pcs
26	GUIDE STRIP L=290,8	1	Pcs
27	SLIDING RING	2	Pcs
28	SLIDING RING	1	Pcs
29	STRIPPER, PLASTIC	1	Pcs
30	OIL SCRAPPER	1	Pcs
31	GASKET O-RING 164,5x5,34	1	Pcs
32	GASKET O-RING 139,1x7,0	1	Pcs

Items	Description	Quantity	U.o.M.
33	GASKET OR 4462 GACO P5 O	2	Pcs
34	GASKET O-RING 88,27x5,34	1	Pcs
35	GASKET O-RING 29,75x3,53	1	Pcs
36	GASKET 7,66x1,78 DF150	2	Pcs
37	SOCKET HEAD SCREW M16x55	2	Pcs
38	HEXAGONAL HEAD SCREW M12x40	3	Pcs
39	SEAT FD-STVM100	1	Pcs
40	STEAM FLOW DISPENSER	1	Pcs
41	MAIL WITH STEM	1	Pcs
42	VALVE COVER	1	Pcs
43	SEAL ELEMENT COMPLETE	1	Pcs
44	GUIDE BUSHING	1	Pcs
45	PISTON RING	2	Pcs
46	SEAL RING	1	Pcs
47	CLAMP RING	1	Pcs
48	RING IN FOUR PARTS	1	Pcs
49	NUT M27	1	Pcs
50	SPACER	2	Pcs
51	CYLINDRICAL PIN	2	Pcs
52	CYLINDRICAL PIN 8 X 60	1	Pcs
53	HEXAGONAL HEAD SCREW M16X90	3	Pcs
54	HEXAGONAL NUT M16	3	Pcs
55	ELONGATION BOLT M20-Tx90	4	Pcs
56	HEXAGONAL NUT M20	4	Pcs
57	SEAT	1	Pcs
58	FLUXUM DISPENSER	1	Pcs
59	MAIL WITH STEM	1	Pcs
60	VALVE COVER	1	Pcs
61	SEAL ELEMENT COMPLETE	1	Pcs
62	GUIDE BUSHING	1	Pcs
63	PISTON RING	2	Pcs
64	SEAL RING	1	Pcs
65	CLAMP RING	1	Pcs
66	RING IN 4 PARTS	1	Pcs
67	NUT M27	2	Pcs
68	SPACER	2	Pcs
69	CYLINDRICAL PIN	2	Pcs
70	CYLINDRICAL PIN 8 X 60	1	Pcs
71	HEXAGONAL HEAD SCREW M16X90	3	Pcs

Items	Description	Quantity	U.o.M.
72	HEXAGONAL NUT M16	3	Pcs
73	ELONGATION BOLT M20-Tx90	4	Pcs
74	HEXAGONAL NUT M20	4	Pcs
75	FLOW EQUALIZER,COMPLETE	1	Pcs
76	VALVE STEM	1	Pcs
77	BODY VALVE	1	Pcs
78	SEAL ELEMENT COMPLETE	1	Pcs
79	GUIDE BUSHING	1	Pcs
80	PISTON RING	2	Pcs
81	SEAL RING	1	Pcs
82	RING	1	Pcs
83	RING IN FOUR PARTS	1	Pcs
84	NUT M27	1	Pcs
85	SPACER	2	Pcs
86	CYLINDRICAL PIN	2	Pcs
87	CYLINDRICAL PIN 8 X 60	1	Pcs
88	HEXAG. HEAD SCREW M16x140	3	Pcs
89	HEXAGONAL NUT M16	4	Pcs
90	ELONGATION BOLT M20-Tx90	4	Pcs
91	HEXAGONAL NUT M20	4	Pcs
92	PISTON ROD	1	Pcs
93	BELLEVILLE SPRING	17	Pcs
94	ELASTIC RING	1	Pcs
95	TRANSMISSION DISC	1	Pcs
96	GASKET	1	Pcs
97	TRANSMISSION STEM	1	Pcs
98	INTERMEDATE RING NUT	1	Pcs
99	INDUCTIVE DISPLACEMENT TRANSDUCER	1	Pcs
100	COMPRESSION SPRING 12.5/3.15x20	1	Pcs
101	COMPRESSION SPRING 31.5/2.5x50	1	Pcs
102	SLIDING RING	2	Pcs
103	SLIDING RING	1	Pcs
104	GASKET O-RING 151,8x5,34	1	Pcs
105	GASKET O-RING 139,1x7,0	1	Pcs
106	GASKET OR 4462 GACO P5 O	2	Pcs
107	GASKET O-RING 88,27x5,34	1	Pcs
108	GASKET O-RING 26,58x3,53	1	Pcs
109	GASKET O-RING 31,34x3,53	1	Pcs
110	LOCKING RING 67.2	1	Pcs

Items	Description	Quantity	U.o.M.
111	CYLINDRICAL PIN 6X50	1	Pcs
112	CYLINDRICAL PIN 10X20	1	Pcs
113	PISTON ROD	1	Pcs
114	BELLEVILLE SPRING	15	Pcs
115	ELASTIC RING	1	Pcs
116	TRANSMISSION DISC	1	Pcs
117	TRANSMISSION STEM	1	Pcs
118	RING NUT	2	Pcs
119	HELICOIDAL BELLEVILLE SPRING	1	Pcs
120	COMPRESSION SPRING 12.5/3.15x20	1	Pcs
121	COMPRESSION SPRING 31.5/2.5x50	1	Pcs
122	SLIDING RING	2	Pcs
123	SLIDING RING	1	Pcs
124	GASKET O-RING 151,8x5,34	1	Pcs
125	GASKET O-RING 139,1x7,0	1	Pcs
126	GASKET OR 4462 GACO P5 O	2	Pcs
127	GASKET O-RING 88,27x5,34	1	Pcs
128	GASKET O-RING 26,58x3,53	1	Pcs
129	GASKET O-RING 31,34x3,53	1	Pcs
130	THREADED ROD	1	Pcs
131	DISC	1	Pcs
132	LOCKING RING 67.2	1	Pcs
133	CYLINDRICAL PIN 6X50	1	Pcs
134	CYLINDRICAL PIN 10X20	1	Pcs
135	PISTON ROD	1	Pcs
136	BELLEVILLE SPRING	19	Pcs
137	ELASTIC RING	1	Pcs
138	TRANSMISSION DISC	1	Pcs
139	GASKET	1	Pcs
140	TRANSMISSION STEM	1	Pcs
141	INTERMEDATE RING NUT	1	Pcs
142	HELICOIDAL BELLEVILLE SPRING	1	Pcs
143	COMPRESSION SPRING	1	Pcs
144	COMPRESSION SPRING 12.5/3.15x20	1	Pcs
145	COMPRESSION SPRING 31.5/2.5x50	1	Pcs
146	SLIDING RING	2	Pcs
147	SLIDING RING	1	Pcs
148	GASKET O-RING 151,8x5,34	1	Pcs
149	GASKET O-RING 139,1x7,0	1	Pcs

Items	Description	Quantity	U.o.M.
150	GASKET OR 4462 GACO P5 O	2	Pcs
151	GASKET O-RING 88,27x5,34	1	Pcs
152	GASKET O-RING 26,58x3,53	1	Pcs
153	GASKET O-RING 31,34x3,53	1	Pcs
154	THREADED ROD	1	Pcs
155	DISC	1	Pcs
156	LOCKING RING 67.2	1	Pcs
157	CYLINDRICAL PIN 6X50	1	Pcs
158	CYLINDRICAL PIN 10X20	1	Pcs
159	SPRING	1	Pcs
160	CU-ETP FLAT GASKET 28X20,8X1	1	Pcs
161	STUD BOLT M16	6	Pcs
162	NUT M16	6	Pcs
163	HEXAGONAL HEAD SCREW M10x25	3	Pcs
164	LOCKING PLATE 10.5X20X32	3	Pcs
165	SPRING	1	Pcs
166	CU-ETP FLAT GASKET 28X20,8X1	1	Pcs
167	STUD BOLT M16	6	Pcs
168	NUT M16	6	Pcs
169	HEXAGONAL HEAD SCREW M10x25	3	Pcs
170	LOCKING PLATE 10.5X20X32	3	Pcs
171	STUD BOLT M80	14	Pcs
172	NUT M80x6	14	Pcs
173	SPACER	14	Pcs
174	STUD BOLT M100x6x760	9	Pcs
175	HEXAGONAL NUT M100x6	9	Pcs
176	TINGLE	9	Pcs
177	TAPER PIN 36x500	1	Pcs
178	STUD BOLT M30	8	Pcs
179	HEXAGONAL NUT M30	8	Pcs
180	SCREW M36-T	1	Pcs
181	SEAL RING	1	Pcs
182	CONICAL PIN 36x450	1	Pcs
183	STUD BOLT M110	2	Pcs
184	NUT M110x6	2	Pcs
185	SPACER	2	Pcs
186	SEAL RING	3	Pcs
187	SEAL RING	2	Pcs
188	STUD BOLT M72x6x520	12	Pcs

Items	Description	Quantity	U.o.M.
189	SPACER 72	12	Pcs
190	NUT M72x6	12	Pcs
191	CAP NUT M56	3	Pcs
192	SPACER	3	Pcs
193	STUD BOLT M56	3	Pcs
194	COMPRESSION SPRING	30	Pcs
195	LOCKING SCREW (M10)	5	Pcs
196	COMPLETE PIN 36x245	2	Pcs
197	SUPPORT DISK	4	Pcs
198	RING FOR STEAM SEAL TYPE 1 DN200	1	Pcs
199	STEAM SEAL RING DN 160 (ASM.)	1	Pcs
200	RING FOR STEAM SEAL TYPE 1 DN200	1	Pcs
201	SEAL RING	1	Pcs
202	MOUNTING RING IN TWO HALVES	1	Pcs
203	MOUNTING RING IN TWO HALVES	1	Pcs
204	SEAL RING	1	Pcs
205	CYLINDRICAL SCREW M12x16	24	Pcs
206	CENTERING SECTOR LB1	1	Pcs
207	CENTERING SECTOR LOB1	1	Pcs
208	SEAL RING DN315/SB65-7,33	2	Pcs
209	SPRING	4	Pcs
210	COMPRESSION SPRING	20	Pcs
211	SPRING	16	Pcs
212	LOCKING SCREW (M10)	6	Pcs
213	LOCKING SCREW (M6)	2	Pcs
214	HEXAGONAL HEAD SCREW M12x30	4	Pcs
215	WIRE 1,5 (600 mm)	0.009	KG
216	PACKING CASING	1	Pcs
217	SEAL RING DN315/SB35-T6,0	1	Pcs
218	SEAL RING DN315/SB65-13,2	2	Pcs
219	SPRING	4	Pcs
220	COMPRESSION SPRING	20	Pcs
221	SPRING	16	Pcs
222	LOCKING SCREW (M10)	6	Pcs
223	LOCKING SCREW (M6)	2	Pcs
224	HEXAGONAL HEAD SCREW M12x30	4	Pcs
225	WIRE 1,5 (600 mm)	0.009	KG
226	OIL PUMP N.29 PINION	1	Pcs
227	CHIAVETTA	1	Pcs

Items	Description	Quantity	U.o.M.
228	CYLINDRICAL HEAD SCREW UNI 5931 M6x16 - 8.8	1	Pcs
229	BALANCING SCREW M24	5	Pcs
230	BALANCING SEGMENT	10	Pcs
231	BALANCING SEGMENT	10	Pcs
232	COUPLING BOLT M39	8	Pcs
233	EXPANSION SLEEVE	8	Pcs
234	SAFETY BOLT M39	16	Pcs
235	SAFETY RING	16	Pcs
236	BALANCING SCREW	4	Pcs
237	BALANCING SCREW	4	Pcs
238	INNER LOCKING COVER	1	Pcs
239	VALVE STEM	1	Pcs
240	RING IN FOUR PARTS	1	Pcs
241	CLOSING RING	1	Pcs
242	RING (SHIM 4)	2	Pcs
243	THREATED BUSHING	2	Pcs
244	STEAM STRAINER	1	Pcs
245	SEAL ELEMENT COMPLETE	1	Pcs
246	SEAL RINGS	1	Pcs
247	CYLINDRICAL PIN	2	Pcs
248	CYLINDRICAL PIN 8 X 60	2	Pcs
249	FILTER	1	Pcs
250	INNER LOCKING COVER	1	Pcs
251	BELL-TYPE VALVE BODY	1	Pcs
252	FLOW EQUALIZER, COMPLETE	1	Pcs
253	SPINDLE	1	Pcs
254	ELONGATION BUSHING	2	Pcs
255	GUIDE BUSHING	2	Pcs
256	SEAL ELEMENT COMPLETE	1	Pcs
257	BLOCKING RING	2	Pcs
258	RING IN FOUR PARTS	1	Pcs
259	CLOSING RING	2	Pcs
260	SEAL RING	2	Pcs
261	PIVOT	2	Pcs
262	NUT M36	2	Pcs
263	CYLINDRICAL PIN	3	Pcs
264	PISTON RING	2	Pcs
265	BLOCKING PLATE	2	Pcs

Items	Description	Quantity	U.o.M.
266	SOCKET HEAD SCREW	12	Pcs
267	PIN	2	Pcs
268	ELONGATION STUD M24	12	Pcs
269	HEXAGONAL HEAD SCREW M12X35	4	Pcs
270	HEXAGONAL NUT M24	12	Pcs
271	HEXAGONAL NUT M16	8	Pcs
272	SAFETY PLATE 13/25X20	4	Pcs
273	LOCKING PLATE 8.4X18X30	8	Pcs
274	CYLINDRICAL PIN 8x60	2	Pcs
275	PISTON ROD	1	Pcs
276	BELLEVILLE SPRING	86	Pcs
277	ELASTIC RING	2	Pcs
278	TRANSMISSION DISC	2	Pcs
279	GASKET	2	Pcs
280	TRANSMISSION STEM	2	Pcs
281	RING NUT	4	Pcs
282	COMMAND DISC	4	Pcs
283	COMPRESSION SPRING 12.5/3.15x20	2	Pcs
284	COMPRESSION SPRING 31,5x2,24x50	2	Pcs
285	SLIDING RING	4	Pcs
286	SLIDING RING	2	Pcs
287	GASKET O-RING 164,5x5,34	2	Pcs
288	GASKET O-RING 139,1x7,0	2	Pcs
289	GASKET OR 4462 GACO P5 O	4	Pcs
290	GASKET O-RING 88,27x5,34	2	Pcs
291	GASKET O-RING 29,75x3,53	2	Pcs
292	GASKET 7,66x1,78 DF150	4	Pcs
293	DISC	2	Pcs
294	PISTON ROD	1	Pcs
295	BELLEVILLE SPRING	62	Pcs
296	ELASTIC RING	2	Pcs
297	TRANSMISSION DISC	2	Pcs
298	GASKET	2	Pcs
299	TRANSMISSION STEM	2	Pcs
300	RING NUT	4	Pcs
301	INTERMEDATE RING NUT	2	Pcs
302	HELICOIDAL BELLEVILLE SPRING	1	Pcs
303	COMPRESSION SPRING 12.5/3.15x20	2	Pcs
304	COMPRESSION SPRING 31.5/2.5x50	2	Pcs

Items	Description	Quantity	U.o.M.
305	SLIDING RING	4	Pcs
306	SLIDING RING	2	Pcs
307	GASKET O-RING 151,8x5,34	2	Pcs
308	GASKET O-RING 139,1x7,0	2	Pcs
309	GASKET OR 4462 GACO P5 O	4	Pcs
310	GASKET O-RING 88,27x5,34	2	Pcs
311	GASKET O-RING 26,58x3,53	2	Pcs
312	GASKET O-RING 31,34x3,53	2	Pcs
313	DISC	2	Pcs
314	LOCKING RING 67.2	2	Pcs
315	CYLINDRICAL PIN 6X50	2	Pcs
316	CYLINDRICAL PIN 10X20	2	Pcs
317	BELLEVILLE SPRING - A 140 GR 3	16	Pcs
318	BELLEVILLE SPRING - A 140 GR 3	16	Pcs
319	CU-ETP FLAT GASKET 28X20,8X1	1	Pcs
320	GASKET	1	Pcs
321	THERMOELEMENT	2	Pcs
322	GASKET	1	Pcs
323	GASKET	1	Pcs
324	CYLINDRICAL PIN 12 X 25	1	Pcs
325	GASKET	1	Pcs
326	KEY	1	Pcs
327	GASKET	1	Pcs
328	GASKET	1	Pcs
329	SEAL SCREW	2	Pcs
330	GASKETS 26X16.5X1	2	Pcs
331	GASKET 22x13,1x1	2	Pcs
332	GASKET 32X20, 8X1	2	Pcs
333	GASKET OR 2025 GACO P5 O	2	Pcs
334	CONICAL PIN D16X160	2	Pcs
335	CYLINDRICAL PIN 6x20	6	Pcs
336	CYLINDRICAL PIN 16x45	1	Pcs
337	H.P. PLUG M8	1	Pcs
338	OIL GUARD	2	Pcs
339	ELASTIC RING	1	Pcs
340	PARALLEL PIN	1	Pcs
341	SEAL (L=400 mm)	4	MT
342	SEALING RING D355 (0.7 KG)	3.5	KG
343	SEALING RING D355 (0.7 KG)	0.3	KG

Items	Description	Quantity	U.o.M.
344	GASKET 25,9x21,2 CU ETP	1	Pcs
345	SLIDING RING	1	Pcs
346	RING	1	Pcs
347	RING	1	Pcs
348	PRESSURE SPRING	1	Pcs
349	SEAL RING D14x18	2	Pcs
350	SEAL RING D48x55	2	Pcs
351	SEAL RING D21x26	1	Pcs
352	SEAL RING D27x32	1	Pcs
353	SEAL RING D17x21	1	Pcs
354	O-RING	2	Pcs
355	INSERT FOR CHECK VALVE	1	Pcs
356	SPECIAL NIPPLE	2	Pcs
357	GASKET 3/4"	4	Pcs
358	CYLINDRICAL HEAD SCREW M3X10	10	Pcs
359	WASHER 3.1	10	Pcs
360	ELASTIC WASHER FOR SCREW CODES	7	Pcs
361	HEXAGONAL NUT M6	2	Pcs
362	GASKET 3/4"	2	Pcs
363	SPILT TUBULAR PIN 6 X 20	2	Pcs
364	GASKET 1/2"	6	Pcs
365	GASKET 3/4"	2	Pcs
366	WASHER 10.2	2	Pcs
367	LOCK WASHER A6.1	4	Pcs
368	PARALLEL PIN 6x16	2	Pcs
369	GASKET 107X61X2 PT2500 AF	3	Pcs
370	GASKET	3	Pcs
371	GASKET	3	Pcs
372	GASKET 273X220X1 PT2500AF	2	Pcs
373	GASKET 262X220X1 PT2500AF	1	Pcs
374	O RING 32.9X3.55-N (VITON)	4	Pcs
375	O RING 32.9X3.55-N (VITON)	4	Pcs
376	WASHER 8.4/25 ST/ZN	2	Pcs
377	GASKET 1/2"	2	Pcs
378	ELASTIC WASHER FOR SCREW CODES	5	Pcs
379	CYLINDRICAL HEAD SCREW M6x10	5	Pcs
380	ELASTIC PIN 10x50	2	Pcs
381	ELASTIC PIN 8x50	2	Pcs
382	GASKET 1/2"	200	Pcs

Items	Description	Quantity	U.o.M.
383	GASKET 3/4"	120	Pcs
384	GASKET 1"	150	Pcs
385	GASKET 2"	100	Pcs
386	GASKET 1" 1/2	300	Pcs
387	GASKET 3/8"	10	Pcs
388	GASKET 230x330 Sp.3	2	Pcs
389	GASKET 200x230 Sp.3	7	Pcs
390	GASKET 230x280 Sp.3	7	Pcs
391	SPILT TUBULAR PIN 6 X 20	4	Pcs
392	ELASTIC WASHER B12,2	4	Pcs
393	GASKET 1/2"	8	Pcs
394	ELASTIC WASHER FOR SCREW CODES	34	Pcs
395	HEXAGONAL NUT M6	8	Pcs
396	SOCKET HEAD CYL. SCREW M6x14	20	Pcs

2. Spares for Turbine Overhauling:

Items	Description	Quantity	U.o.M.
1	DIFFUSER	2	Pcs
2	VALVE STEM	2	Pcs
3	VALVE HEAD	2	Pcs
4	GUIDE SLEEVE	2	Pcs
5	THREADED BUSHING	2	Pcs
6	SEAL ELEMENT COMPLETE	2	Pcs
7	HEX. SOCKET HEAD SCREW	12	Pcs
8	GUIDE BUSHING	2	Pcs
9	NUT	8	Pcs
10	ELONGATION STUD M24	6	Pcs
11	HEXAGONAL HEAD SCREW M16X80	8	Pcs
12	HEXAGONAL NUT M24	12	Pcs
13	WASHER 10.5	5	Pcs
14	BELLEVILLE SPRING	4	Pcs
15	COMPRESSION SPRING 12.5/3.15x20	1	Pcs
16	COMPRESSION SPRING 31,5x2,24x50	1	Pcs
17	WASHER 12.2	9	Pcs
18	WASHER 16.2	4	Pcs
19	BELLEVILLE SPRING	4	Pcs
20	COMPRESSION SPRING 12.5/3.15x20	1	Pcs
21	COMPRESSION SPRING 31,5x2,24x50	1	Pcs
22	WASHER 12.2	9	Pcs
23	WASHER 16.2	4	Pcs
24	ORIFICE	2	Pcs
25	ORIFICE	1	Pcs

Items	Description	Quantity	U.o.M.
26	TINGLE	1	Pcs
27	CLAMP PIVOT	2	Pcs
28	COMPRESSION SPRING	1	Pcs
29	ORIFICE	3	Pcs
30	ORIFICE	3	Pcs
31	"DU" BUSHING	2	Pcs
32	GUIDE STRIP L=391,3	1	Pcs
33	GUIDE STRIP L=290,8	1	Pcs
34	DISC	1	Pcs
35	ORIFICE	2	Pcs
36	ORIFICE	1	Pcs
37	CLAMP PIVOT	2	Pcs
38	COMPRESSION SPRING	1	Pcs
39	ORIFICE	3	Pcs
40	ORIFICE	3	Pcs
41	"DU" BUSHING	2	Pcs
42	STRIP L=391,3	1	Pcs
43	STRIP L=290,8	1	Pcs
44	ORIFICE	2	Pcs
45	ORIFICE	1	Pcs
46	TINGLE	1	Pcs
47	CLAMP PIVOT	2	Pcs
48	ORIFICE	3	Pcs
49	ORIFICE	3	Pcs
50	"DU" BUSHING	2	Pcs
51	GUIDE STRIP L=391,3	1	Pcs
52	GUIDE STRIP L=290,8	1	Pcs
53	SET SHIM	4	Pcs
54	SUBSTITUTION KEY	2	Pcs
55	SUPPORT KEY	4	Pcs
56	CENTERING PIN ASM.	2	Pcs
57	BUSHING	2	Pcs
58	GUIDE SLEEVE	2	Pcs
59	GUIDE BUSHING	2	Pcs
60	ORIFICE	2	Pcs
61	CLAMP PIVOT	2	Pcs
62	"DU" BUSHING	2	Pcs
63	GUIDE STRIP L=391,3	2	Pcs
64	GUIDE STRIP L=290,8	2	Pcs
65	ORIFICE	2	Pcs
66	ORIFICE	2	Pcs
67	CLAMP PIVOT	4	Pcs
68	COMPRESSION SPRING	2	Pcs
69	ORIFICE	6	Pcs
70	ORIFICE	6	Pcs
71	"DU" BUSHING	4	Pcs
72	GUIDE STRIP L=391,3	2	Pcs

Items	Description	Quantity	U.o.M.
73	GUIDE STRIP L=290,8	2	Pcs
74	CYLINDRICAL HEAD SCREW M24x130	2	Pcs
75	WASHER 25/44	2	Pcs
76	WITHOUT HEAD SCREW M12x30	3	Pcs
77	CYLINDRICAL HEAD SCREW M24x130	2	Pcs
78	WASHER 25/44	2	Pcs
79	WITHOUT HEAD SCREW M12x30	3	Pcs
80	COUPLING	1	Pcs
81	DISC FOR SPRING	1	Pcs
82	SPRING	1	Pcs
83	STUD BOLT M16	3	Pcs
84	NUT M16	3	Pcs
85	HEXAGONAL HEAD SCREW M10x25	3	Pcs
86	LOCKING PLATE 10.5X20X32	3	Pcs
87	COCKPIT	1	Pcs
88	SEAL RING	1	Pcs
89	LOCKING PLATE 8,4/18x15	3	Pcs
90	HEXAGONAL HEAD SCREW M20x45	4	Pcs
91	STUD BOLT M64	26	Pcs
92	STUD BOLT M64	20	Pcs
93	STUD BOLT M42	20	Pcs
94	STUD BOLT M36	6	Pcs
95	STUD BOLT M36	20	Pcs
96	HEXAGONAL NUT M64	26	Pcs
97	HEXAGONAL SOCKET HEAD M42	20	Pcs
98	HEXAGONAL NUT M64	24	Pcs
99	HEXAGONAL NUT M36	26	Pcs
100	SPRING WASHER	26	Pcs
101	SEAL RING	3	Pcs
102	THERMOWELL	1	Pcs
103	COMPLETE PIN 36x245	2	Pcs
104	HEXAGONAL FEAD SCREW M36x240	3	Pcs
105	SEAL RING	2	Pcs
106	SEAL RING	2	Pcs
107	SPRING WASHER	20	Pcs
108	HEXAGONAL HEAD SCREW M10X12	55	Pcs
109	STUD BOLT M64	4	Pcs
110	SUPPORT RING	4	Pcs
111	THERMOWELL	2	Pcs
112	SEAL RING	1	Pcs
113	SEAL RING DN934	4	Pcs
114	COMPRESSION SPRING	64	Pcs
115	STUD BOLT M90x6	5	Pcs
116	STUD BOLT M72x6	3	Pcs
117	STUD BOLT M56	10	Pcs
118	NUT M90x6	5	Pcs
119	NUT M72x6	3	Pcs

Items	Description	Quantity	U.o.M.
120	CAP NUT M56	10	Pcs
121	SPRING WASHER	5	Pcs
122	WASHER	3	Pcs
123	WASHER	10	Pcs
124	LOCKING SCREW (M10)	8	Pcs
125	CONICAL PIN 24x355	2	Pcs
126	HEXAGONAL FEAD SCREW M36x240	4	Pcs
127	STEAM SEAL RINGS TYPE 1 DN315	2	Pcs
128	STEAM SEAL RINGS TYPE 2	1	Pcs
129	STEAM SEAL RINGS TYPE 2	1	Pcs
130	SUPPORT SHIMS SERIES	8	Pcs
131	ASSIAL KEY	4	Pcs
132	LATERAL KEY	2	Pcs
133	CENTERING PIN ASM.	1	Pcs
134	CONICAL PIN 36x375	2	Pcs
135	CYLINDRICAL SCREW M10x55	8	Pcs
136	CYLINDRICAL HEAD SCREW M24x50	4	Pcs
137	LOCKING SCREW (M10)	2	Pcs
138	THERMOWELL	1	Pcs
139	THERMOWELL	1	Pcs
140	ISO 4017 SCREW - M24 X 50 - 8.8	20	Pcs
141	GASKET	2	Pcs
142	ASSIAL CENTERING PIN 36	2	Pcs
143	TAPER NOZZLE 4.05	7	Pcs
144	COUNTERSUNK SCREW ISO 2009 - M10X20	4	Pcs
145	SPRING	6	Pcs
146	COMPRESSION SPRING	24	Pcs
147	LOCKING SCREW (M10)	5	Pcs
148	HEXAGONAL HEAD SCREW M12x30	2	Pcs
149	SEAL RING DN630/SB35-T6.0	1	Pcs
150	SEAL RING DN630/SB65-8.25	4	Pcs
151	CROWN GEAR FOR TURNING GEAR	1	Pcs
152	BALANCING SCREW M24	3	Pcs
153	BALANCING SCREW M36	3	Pcs
154	BALANCING SEGMENT	3	Pcs
155	BALANCING SEGMENT	3	Pcs
156	STUD BOLT M64	4	Pcs
157	HEXAGONAL NUT M64	5	Pcs
158	SPRING WASHER	4	Pcs
159	STUD BOLT M64-TK	2	Pcs
160	ALIGNMENT BUSHING	4	Pcs
161	SUBSTITUTING KEY FOR BOLT M64	4	Pcs
162	SCREW ISO 4017 - M36x120 - 8.8	15	Pcs
163	HEXAGONAL HEAD SCREW M36x140	3	Pcs
164	CONICAL PIN 24x112	4	Pcs
165	STUD BOLT M48X345	10	Pcs
166	NUT M48	10	Pcs

Items	Description	Quantity	U.o.M.
167	CONICAL PIN 36x335	4	Pcs
168	WASHER 83.5/53	10	Pcs
169	POSITIONING WASHER	4	Pcs
170	COMPRESSION SPRING	24	Pcs
171	LOCKING SCREW (M10)	4	Pcs
172	LOCKING SCREW (M8)	3	Pcs
173	ELASTIC SPACER	3	Pcs
174	WIRE 1,5 (600 mm)	0.009	KG
175	SEAL RING DN630/SB65-6,0	4	Pcs
176	RING IN TWO HALVES	3	Pcs
177	LP ROTOR BLADE ST.5 CW	13	Pcs
178	SPRING	61	Pcs
179	KEY FOR CLOSING BLOCK	1	Pcs
180	AXIAL LOCKING SEGMENT	19	Pcs
181	AXIAL LOCKING SEGMENT	3	Pcs
182	AXIAL LOCKING SEGMENT	19	Pcs
183	AXIAL LOCKING SEGMENT	3	Pcs
184	LOCKING SEGMENT	1	Pcs
185	LOCKING SEGMENT	1	Pcs
186	LP ROTOR BLADE ST.6 CW	12	Pcs
187	SPRING	212	Pcs
188	KEY FOR CLOSING BLOCK	1	Pcs
189	AXIAL LOCKING SEGMENT	16	Pcs
190	AXIAL LOCKING SEGMENT	4	Pcs
191	AXIAL LOCKING SEGMENT	16	Pcs
192	AXIAL LOCKING SEGMENT	4	Pcs
193	LOCKING SEGMENT	1	Pcs
194	LOCKING SEGMENT	1	Pcs
195	COUPLING BOLT M48	8	Pcs
196	EXPANSION SLEEVE	8	Pcs
197	SAFETY NUT M48	16	Pcs
198	SAFETY RING	16	Pcs
199	BALANCING SCREW M24	2	Pcs
200	BALANCING SCREW M24	2	Pcs
201	TAPERED PIN D16X132	2	Pcs
202	TINGLE	2	Pcs
203	HEXAGONAL HEAD SCREW M10X25 - 8.8	8	Pcs
204	DIAPHRAGM SUPPORT	1	Pcs
205	ORIFICE	1	Pcs
206	HEXAGONAL HEAD SCREW M16x35	2	Pcs
207	CYLINDRICAL PIN 12 X 25	1	Pcs
208	SCREW FOR LATERAL PRESSURE PLATE	6	Pcs
209	SUPPORT FOR KEY	1	Pcs
210	SUPPORT FOR KEY	1	Pcs
211	CYLINDRICAL HEAD SCREW M42x80	4	Pcs
212	SPHERICAL SUPPORT (ASSEMBLY)	2	Pcs
213	SET OF SHIMS, COMPLETE	2	Pcs

Items	Description	Quantity	U.o.M.
214	WASHER 10.5/21	2	Pcs
215	CYLINDRICAL SCREW M10x25	2	Pcs
216	ADJUSTMENT PLATE	2	Pcs
217	SLIPPAGE PLATE	2	Pcs
218	COUNTERSUNK SCREW M8x12	3	Pcs
219	CYLINDRICAL HEAD SCREW M12x65	2	Pcs
220	ADJUSTING PLATE	2	Pcs
221	SLIDING ELEMENTS	2	Pcs
222	HEXAGONAL HEAD SCREW ISO 4014 -	4	Pcs
223	SAFETY PLATE	2	Pcs
224	SLIDING ELEMENTS	2	Pcs
225	HEXAGONAL HEAD SCREW M16x25	4	Pcs
226	KEY	1	Pcs
227	SET OF SHIMS, COMPLETE	2	Pcs
228	SLIDING ELEMENT	2	Pcs
229	COUNTERSUNK SCREW M6x12	6	Pcs
230	VERTICAL ALIGNMENT SHIMS	2	Pcs
231	PLATE TYPE SPRING 31X55X112	2	Pcs
232	HEXAGONAL HEAD SCREW ISO 4014 -	2	Pcs
233	GASKET	1	Pcs
234	HEXAGONAL HEAD SCREW M24X65	7	Pcs
235	GASKET	1	Pcs
236	SAFETY PLATE	1	Pcs
237	HEXAGONAL HEAD SCREW M16x50	2	Pcs
238	THICKNESS	2	Pcs
239	HEXAG. HEAD SCREW ISO 4014 M20x300 8.8	4	Pcs
240	STUD BOLT M56	2	Pcs
241	BUSHING	2	Pcs
242	TINGLE	2	Pcs
243	HEXAGONAL NUT M56	2	Pcs
244	HEXAGONAL NUT M56	2	Pcs
245	SPHERICAL SUPPORT (ASSEMBLY)	2	Pcs
246	SET OF SHIMS, COMPLETE	2	Pcs
247	ADJUSTMENT PLATE	2	Pcs
248	SLIPPAGE PLATE	2	Pcs
249	ADJUSTING PLATE	2	Pcs
250	SET OF SHIMS, COMPLETE	2	Pcs
251	SLIDING ELEMENT	2	Pcs
252	VERTICAL ALIGNMENT SHIMS	2	Pcs
253	PLATE TYPE SPRING 31X55X112	2	Pcs
254	SAFETY PLATE	2	Pcs
255	TINGLE	2	Pcs
256	BUSHING	4	Pcs
257	TINGLE	4	Pcs
258	STUD BOLT M42	4	Pcs
259	HEXAGONAL SOCKET HEAD M42	4	Pcs
260	CONICAL PIN D16X160	2	Pcs

Items	Description	Quantity	U.o.M.
261	STUD BOLT M42	6	Pcs
262	HEXAGONAL SOCKET HEAD M42	6	Pcs
263	CYLINDRICAL HEAD SCREW M8x16	4	Pcs
264	CALIBRATED SCREW M10	4	Pcs
265	HEXAGONAL NUT M10	2	Pcs
266	CYLINDRICAL PIN 4x14	2	Pcs
267	SCREW M6x20	2	Pcs
268	HEXAGONAL HEAD SCREW M8x12	9	Pcs
269	LOCKING PLATE 8,4/18x15	9	Pcs
270	THRUST BEARING RING DIAM.315	1	Pcs
271	SLIDING BLOCKS SET	1	Pcs
272	SLIDING BLOCKS SET	1	Pcs
273	RING IN TWO HALVES	1	Pcs
274	SET THICKNESS	1	Pcs
275	SET THICKNESS	4	Pcs
276	SET THICKNESS	1	Pcs
277	SET THICKNESS	2	Pcs
278	CYLINDRICAL HEAD SCREW M8x20	14	Pcs
279	ORIFICE	2	Pcs
280	SET THICKNESS	1	Pcs
281	COPPER GASKET A 18X22	1	Pcs
282	COPPER GASKET A 18X22	1	Pcs
283	SUPERIOR DISC	1	Pcs
284	INFERIOR DISC	1	Pcs
285	DIAPHRAGM	1	Pcs
286	GRUB SCREW M12x25	1	Pcs
287	SCREW M20x50	25	Pcs
288	ADHESIVE COMPOUND EC880 AD.EC880S	2	Pcs
289	BUSHING	1	Pcs
290	WORM	1	Pcs
291	BUSHING	1	Pcs
292	SEGMENT	2	Pcs
293	TAPER PIN 12x65	2	Pcs
294	THROTTLE PIN NG6	1	Pcs
295	CYLINDRICAL PIN S-SW 3X25 STNR	1	Pcs
296	COMPRESSION SPRING 80/9x200 ST	1	Pcs
297	BEARING FLANGE-NS	1	Pcs
298	TOOTH PISTON	1	Pcs
299	TOOTH PISTON	1	Pcs
300	RADIAL BEARING	2	Pcs
301	FORGED-ON SHAFT COLLAR	1	Pcs
302	WEDGE	1	Pcs
303	BEARING FLANGE-AS	1	Pcs
304	SPARE PARTS SET FOR CONSTANT	1	Pcs
305	CALIBRATED SCREW	4	Pcs
306	WASHER 22.5	4	Pcs
307	LOCKING SCREW	1	Pcs

Items	Description	Quantity	U.o.M.
308	TORSION SPRING	1	Pcs
309	RING	2	Pcs
310	PIVOT	1	Pcs
311	"DU" BUSHING	1	Pcs
312	CLAMP PISTON	1	Pcs
313	RING 20	2	Pcs
314	LOCK WASHER A6.1	1	Pcs
315	CYLINDRICAL HEAD SCREW M6x16	1	Pcs
316	SPRING 31,5x3,15x63	1	Pcs
317	RING 59.2	1	Pcs
318	HEXAGONAL NUT M12	1	Pcs
319	CYLINDRICAL PIN 3x20	1	Pcs
320	WASHER 10.2	2	Pcs
321	CYLINDRICAL HEAD SCREW M10x20	2	Pcs
322	SUPPORT SENSOR	2	Pcs
323	CYLINDRICAL HEAD SCREW M3X10	10	Pcs
324	WASHER 3.1	10	Pcs
325	ELASTIC WASHER FOR SCREW CODES	7	Pcs
326	HEXAGONAL NUT M6	2	Pcs
327	SPECIAL PLUG	1	Pcs
328	WASHER 3.1	5	Pcs
329	ELASTIC WASHER FOR SCREW CODES	7	Pcs
330	HEXAGONAL NUT M6	2	Pcs
331	SPECIAL PLUG	3	Pcs
332	HEXAGONAL HEAD SCREW M8x12	7	Pcs
333	CILINDRICAL HEAD SCREW M16x45	8	Pcs
334	CILINDRICAL HEAD SCREW M20x150	8	Pcs
335	HEXAGONAL NUT M20	8	Pcs
336	WASHER 12.2	3	Pcs
337	SAFETY PLATE 6,4/15x15	2	Pcs
338	THREE-CORES SHIELDED CABLE 3x1,5	350	MT
339	CHROMEL CABLE EYELET LUG	20	Pcs
340	ALUMEL CABLE EYELET LUG	20	Pcs
341	EYELET TERMINAL M4 Cu 31902	15	Pcs
342	EYELET TERMINAL M4 Cu 31886	90	Pcs
343	"KX" EXTENSION COMPENSATION CABLE	450	MT
344	EYELET CABLE LUG M5 COPPER 31903	20	Pcs
345	TWO-CORES SHIELDED CABLE 2x1,5	500	MT
346	TWO-CORES SHIELDED CABLE	100	MT
347	THREE CORES SHIELDED CABLE 3x0,75	600	MT
348	SHIELDED CABLE 2X0.75	350	MT
349	EIGHT-CORES SHIELDED CABLE 8x1,5	150	MT
350	1x1.5 FR/4 SINGLE CORE EARTH CABLE	600	MT
351	1x2.5 FR/4 SINGLE CORE EARTH CABLE	800	MT
352	EARTH EYE-LUG M5 CU-EPT UNI56	20	Pcs
353	EARTH PIN-LUG W17 CU-EPT UNI5	60	Pcs
354	SIX-CORES SHIELDED CABLE 6x0,75	300	MT

Items	Description	Quantity	U.o.M.
355	0,5 CABLE PIN LUG	400	Pcs
356	PIN 1,5 CABLE-LUG	1000	Pcs
357	CABLE 6x1	80	MT
358	SHIELDED CABLE 4x1.5	350	MT

3. Spares for Generator Overhauling:

Items	Description	Quantity	U.o.M
1	WATER BOX FLAT GASKET	8	Pcs
2	WATER BOX U SHAPED GASKET	12	Pcs
3	PRE-FILTER	1	Pcs
4	SLIP RING HOUSING AIR PRE-FILTER	1	Pcs
5	COPPER PLAIT 5,5 X 38 X 300	3	Pcs
6	FIBER GASKET (G5)	2	Pcs
7	SPAZZOLA 38.1X25.4	32	Pcs
8	GASKET	10	MT
9	GASKET FOR AIR SEAL RING BOX B45	37	MT
10	GASKET	8	Pcs
11	MAKE UP FILTER	2	Pcs
12	GASKET	2	Pcs
13	SYNTHETIC RUBBER PLATE 6 X 15	30	MT
14	PROFILE "WIELAND" 2X8 L = 3010 mm	6.02	MT
15	PROFILE "WIELAND" 2X8 L = 3010 mm	6.02	MT
16	PLATE 6X15 GOMMA SINTETICA	10	MT
17	PLATE 6X15 GOMMA SINTETICA	10	MT
18	ROUND 15 SPONGE RUBBER	1	MT
19	SYNTHETIC RUBBER PLATE 6 X 15	25	MT
20	FLAT GASKET DN.150 - 150lb	4	Pcs
21	GASKET ANSI DN 2"1/2	3	Pcs
22	CU-ETP FLAT GASKET 28X20,8X1	1	Pcs
23	FLAT GASKET DN.150 - 150lb	4	Pcs
24	GASKET ANSI DN 2"1/2	3	Pcs
25	CU-ETP FLAT GASKET 28X20,8X1	1	Pcs
26	"WIELAND" SECTION 2X9 (O.C.E. - C.E.)	4.51	MT
27	MATERIAL FOR SEAL MA.1287 0	1	KG
28	"WIELAND" SECTION 2X9 (O.C.E. - C.E.)	4.51	MT
29	MATERIAL FOR SEAL MA.1287 0	1	KG
30	"WIELAND" SECTION 2X9 (O.C.E. - C.E.)	4.51	MT
31	MATERIAL FOR SEAL MA.1287 0	1	KG
32	"WIELAND" SECTION 2X9 (O.C.E. - C.E.)	4.51	MT
33	MATERIAL FOR SEAL MA.1287 0	1	KG
34	ADJUSTMENT SHIM FOR DN425 BEARING	12	Pcs
35	ADJUSTMENT SPACER FOR DN425 BEARING	12	Pcs
36	ADJUSTMENT SPACER FOR DN425 BEARING	24	Pcs

Items	Description	Quantity	U.o.M.
37	ADJUSTMENT SPACER FOR DN425 BEARING	24	Pcs

4. Spares for Generator Overhauling:

Items	Description	Quantity	U.o.M.
1	GASKET	4	Pcs
2	GASKET L = 4150 mm	4	Pcs
3	HEXAGONAL HEAD SCREW M12x20	26	Pcs
4	ELASTIC WASHER B12,2	75	Pcs
5	INTERNAL WRENCHED HEAD BOLT M12X45	42	Pcs
6	SCREW FOR LATERAL PRESSURE PLATE	30	Pcs
7	PLATE (13 MM DIA)	24	Pcs
8	NUT FOR HYDROGEN SEAL RINGS BOX	24	Pcs
9	SACRIFICIAL ANODE	16	Pcs
10	DROPS SEPARATOR	1	Pcs
11	BLOCK	2	Pcs
12	STUD BOLT M8X30	3	Pcs
13	HEXAGONAL HEAD SCREW M12x30	1	Pcs
14	HEXAGONAL HEAD SCREW M10x40	2	Pcs
15	HEXAGONAL NUT M8	3	Pcs
16	HEXAGONAL NUT M10	2	Pcs
17	WASHER M10	2	Pcs
18	DOUBLE SAFETY PLATE	1	Pcs
19	SAFETY PLATE	1	Pcs
20	NYLON STRIP 197 X 4,8	2	Pcs
21	HEXAGONAL HEAD SCREW M8X65	2	Pcs
22	ARANDELA 8	1	Pcs
23	WASHER 8.4/25 ST/ZN	3	Pcs
24	SAFETY PLATE 10.5	2	Pcs
25	HEXAGONAL HEAD SCREW M12x110	2	Pcs
26	SPACER	2	Pcs
27	HEXAGONAL HEAD SCREW M12x20	1	Pcs
28	MALE CONNECTION 1/2" - DN18	1.5	MT
29	CORRUGATED BRACKET 26 FE360B	4	Pcs
30	FILLISTER HEAD SCREW M4X6	4	Pcs
31	UNIPOLAR FLEXIBLE WIRING	10	MT
32	TERMINAL CABLE M12 CU-ETP	2	Pcs
33	16X28 RUBBER BUSH	2	Pcs
34	STIFFENING RIB 38 FE360B	8	Pcs
35	HEXAGONAL NUT G 1 1/2";	6	Pcs
36	FIBER GASKET (G7)	20	Pcs
37	LOCK NUT G 1"	3	Pcs
38	FIBER GASKET (G5)	15	Pcs
39	HEXAGONALE NUT G 1/2"	1	Pcs
40	FIBER GASKET (G3)	2	Pcs
41	FLEXIBLE PIPE 1" - DN 25	1	MT

Items	Description	Quantity	U.o.M.
42	MALE PIPE UNION 1 1/4"; - DN 25	2	Pcs
43	HEXAGONAL NUT G 1 1/4";	1	Pcs
44	LOCK NUT G 1"	1	Pcs
45	BLOCK	1	Pcs
46	BLOCK	1	Pcs
47	BLOCK	1	Pcs
48	BLOCK	1	Pcs
49	INSULATING RING IN TWO HALVES	1	Pcs
50	GROUNDING CONNECTION	1	Pcs
51	HEXAGONAL HEAD SCREW M12x40	7	Pcs
52	ELASTIC WASHER B12,2	7	Pcs
53	HEXAGONAL HEAD SCREW M12x30	2	Pcs
54	LOCKING PLATE	4	Pcs
55	HEX. HEAD SCREW M16x40	2	Pcs
56	HEXAGONAL NUT M16	4	Pcs
57	DOUBLE LOCKING PLATE	8	Pcs
58	HEXAGONAL HEAD SCREW M16x50	2	Pcs
59	WASHER DIA. 17 FOR COMPRESSION STRAPS	2	Pcs
60	ELASTIC WASHER B16,2	6	Pcs
61	THREADED INSERT M16X24	2	Pcs
62	SCREW M10X30	10	Pcs
63	ELASTIC WASHER 10.2	8	Pcs
64	WASHER M10	4	Pcs
65	HEXAGONAL HEAD SCREW M10X25 - 8.8	2	Pcs
66	HEXAGONAL HEAD SCREW M10x20	4	Pcs
67	SCREW	2	Pcs
68	WASHER 13/24	1	Pcs
69	HEXAGONAL NUT M10	2	Pcs
70	LOCKING PLATE	12	Pcs
71	SCREW ISO 4017 - M10X35 - 8.8	1	Pcs
72	HEXAGONAL HEAD SCREW M12x20	1	Pcs
73	HEXAGON SOCKET HEAD CAP SCREW M12X35	4	Pcs
74	WASHER 12.2	4	Pcs
75	WASHER 13 STAINLESS STEEL	4	Pcs
76	HEXAGONAL HEAD HEAD SCREW M12X25	4	Pcs
77	SAFETY PLAQUE	8	Pcs
78	WASHER 12.5/32X3	5	Pcs
79	WASHER 13/28 STAINLESS STEEL	5	Pcs
80	HEXAGONAL HEAD SCREW M12 X 90	5	Pcs
81	PLUG V 40	5	Pcs
82	HEXAGONAL HEAD SCREW M8x20	3	Pcs
83	WASHER (6.4X12.5 DIAMETER)	3	Pcs
84	ELASTIC WASHER FOR SCREW CODE 189	5	Pcs
85	HEXAGONAL HEAD SCREW M10 X 50	5	Pcs
86	ELASTIC WASHER 10.2	5	Pcs
87	HEXAGONAL NUT M10	5	Pcs
88	WASHER M10	5	Pcs

Items	Description	Quantity	U.o.M.
89	CONICAL PIN 8X60	2	Pcs
90	INSULATING RING IN TWO HALVES	1	Pcs
91	INSULATING RING IN TWO HALVES	1	Pcs
92	INSULATING RING IN TWO HALVES	1	Pcs
93	FLEXIBLE PIPE L = 550 mm	4	Pcs
94	FLEXIBLE PIPE L = 470 mm	4	Pcs
95	HOSE CLAMP 23 - 45	8	Pcs
96	DOUBLE SAFETY PLATE	32	Pcs
97	WASHER 13X40X3	6	Pcs
98	HEXAGONAL HEAD SCREW M16x50	16	Pcs
99	HEXAGONAL HEAD SCREW M12X50	6	Pcs
100	THREADED BOLT M16X140	1	Pcs
101	THREADED BOLT M16X220	3	Pcs
102	DISCO	12	Pcs
103	WASHER THK.3	6	Pcs
104	HEX. HEAD SCREW M16x45	4	Pcs
105	HEXAGON SOCKET HEAD CAP SCREW M10X60	7	Pcs
106	WASHER 10.5/18	7	Pcs
107	HEXAGONAL HEAD SCREW M8x30	6	Pcs
108	THREADED BOLT M16X175	1	Pcs
109	HEXAGONAL NUT M16	9	Pcs
110	SCREW M16X30	2	Pcs
111	THREADED BOLT M16X1000	1	Pcs
112	HEXAGONAL HEAD SCREW M16X20	3	Pcs
113	BUSHING	3	Pcs
114	DISCO	3	Pcs
115	HEXAGONAL HEAD SCREW M12X80	4	Pcs
116	HEXAGONAL NUT M12	4	Pcs
117	WASHER 13/24	2	Pcs
118	HEX. HEAD SCREW M16x40	16	Pcs
119	HEXAGONAL HEAD SCREW M12X60	13	Pcs
120	HEXAGONAL NUT M12	13	Pcs
121	HEXAGONAL HEAD SCREW M12x35	2	Pcs
122	WASHER 13/24	28	Pcs
123	HEX. HEAD SCREW M16x40	6	Pcs
124	HEXAGONAL NUT M16	6	Pcs
125	CYLINDRICAL THREADED INSERT M12	6	Pcs
126	HEXAGONAL HEAD SCREW M10X60	5	Pcs
127	HEXAGONAL HEAD SCREW M8x20	3	Pcs
128	HEXAGONAL NUT M8	2	Pcs
129	ELASTIC WASHER FOR SCREW CODE 189	3	Pcs
130	GASKET FOR AIR SEAL RING BOX B45	1.25	KG
131	HEXAGONAL HEAD SCREW ISO 4014 - M12x120 -	2	Pcs
132	WASHER 13/24	2	Pcs
133	HEX. HEAD SCREW M16x40	2	Pcs
134	HEXAGONAL NUT M16	2	Pcs
135	DOUBLE LOCKING PLATE	2	Pcs

Items	Description	Quantity	U.o.M.
136	HEXAGONAL HEAD SCREW M36X3X120 UNI 5740	2	Pcs
137	WASHER	2	Pcs
138	LEVELLING SCREW	3	Pcs
139	BOTTOM GROOVE SHIM	20	Pcs
140	INTERMEDIATE SHIM	20	Pcs
141	FILLING STRIPE	20	Pcs
142	UNDER WEDGE SHIM	20	Pcs
143	STATOR WINDING WEDGE ASSEMBLY	1	Pcs
144	BRAZING PLATE	15	Pcs
145	INSULATING INSERT ASSEMBLY	6	Pcs
146	HEXAGONAL HEAD SCREW M16x90	24	Pcs
147	HEXAGONAL NUT M16	24	Pcs
148	HEXAGONAL HEAD SCREW M16x40	48	Pcs
149	WASHER 17/34 STAINLESS STEEL	48	Pcs
150	BOLT	9	Pcs
151	WASHER 17/30 STAINLESS STEEL	9	Pcs
152	HEXAGONAL HEAD SCREW M16x80	9	Pcs
153	WASHER 17/34 STAINLESS STEEL	24	Pcs
154	INSULATING NUT M16 HM34	12	Pcs
155	NEOPRENE GASKET THK.3 MM	2	Pcs
156	NEOPRENE GASKET 3 mm THICKNESS	12	Pcs
157	SHIM	6	Pcs
158	SHIM 5X135X310	2	Pcs
159	HEXAGONAL HEAD SCREW M16x70	50	Pcs
160	DOUBLE SAFETY PLATE	50	Pcs
161	HEXAGONAL NUT M16	50	Pcs
162	ISO 4014 HEX. HEAD SCREW M12 X 70 - 8.8	10	Pcs
163	WASHER 13X35X5	10	Pcs
164	PLAQUE INSULATING	2	Pcs
165	HEXAGONAL HEAD SCREW M16x70	2	Pcs
166	4017 ISO SCREW M16X45 - A1 - 50	2	Pcs
167	HEXAGONAL NUT M16	2	Pcs
168	WASHER 17/30 STAINLESS STEEL	6	Pcs
169	HEXAGONAL HEAD SCREW M10X25 - 8.8	10	Pcs
170	ADJUSTMENT SCREW	1	MT
171	TAPER PIN 16X100	2	Pcs
172	HEXAGONAL NUT M16	2	Pcs
173	WASHER DIA. 17 FOR COMPRESSION STRAPS	2	Pcs
174	TORNILLO CABEZA HEXAGONAL M16X90	9	Pcs
175	CYLINDRICAL PIN 6X60	4	Pcs
176	PIN	2	Pcs
177	PIN 8 X 20	1	Pcs
178	HEXAGONAL HEAD SCREW - ISO 4017 - M8 X 25 -	2	Pcs
179	SAFETY PLATE	2	Pcs
180	HEXAGONAL NUT M8	2	Pcs
181	BALANCING WEIGHTS	5	Pcs
182	HEXAGONAL NUT M30	4	Pcs

Items	Description	Quantity	U.o.M.
183	WITHOUT HEAD SCREW M12X25	4	Pcs
184	SAFETY PLAQUE	4	Pcs
185	HEXAGONAL NUT M16	1	Pcs
186	WASHER 17/30	1	Pcs
187	HEXAGONAL HEAD SCREW M16x80	1	Pcs
188	HEXAGONAL NUT M30	4	Pcs
189	WITHOUT HEAD SCREW M12X25	4	Pcs
190	SAFETY PLAQUE	4	Pcs
191	HEXAGONAL NUT M16	1	Pcs
192	WASHER 17/30	1	Pcs
193	HEXAGONAL HEAD SCREW M16x80	1	Pcs
194	DIAPHRAGM	1	Pcs
195	DIAPHRAGM FOR OIL CONTROL	1	Pcs
196	OIL OUTLET FLOW INDICATOR SIGHT GLASS	1	Pcs
197	HEXAGONAL HEAD SCREW M16x80	8	Pcs
198	HEXAGONAL NUT M16	8	Pcs
199	WASHER 16.2	8	Pcs
200	HEXAGONAL HEAD SCREW ISO 4014 - M20x80 -	12	Pcs
201	HEXAGONAL NUT M20	12	Pcs
202	PLUG 1/2 NPT - 3000/6000 ANSI B16.11	2	Pcs
203	SCREW PLUG G 1/2" A	1	Pcs
204	DIAPHRAGM	1	Pcs
205	DIAPHRAGM FOR OIL CONTROL	1	Pcs
206	OIL OUTLET FLOW INDICATOR SIGHT GLASS	1	Pcs
207	HEXAGONAL HEAD SCREW M16x80	8	Pcs
208	HEXAGONAL NUT M16	8	Pcs
209	WASHER 16.2	8	Pcs
210	HEXAGONAL HEAD SCREW ISO 4014 - M20x80 -	12	Pcs
211	HEXAGONAL NUT M20	12	Pcs
212	PLUG 1/2 NPT - 3000/6000 ANSI B16.11	2	Pcs
213	SCREW PLUG G 1/2" A	1	Pcs
214	PLATE 5.3X12X19	2	Pcs
215	HEXAGONAL HEAD SCREW M5X12	2	Pcs
216	HEXAGON HEAD SCREW 4017 - M6X12 -8.8	4	Pcs
217	CORRUGATED BRACKET 7 FE360B UNI 707	4	Pcs
218	PLATE 5.3X12X19	2	Pcs
219	HEXAGONAL HEAD SCREW M5X12	2	Pcs
220	HEXAGON HEAD SCREW 4017 - M6X12 -8.8	4	Pcs
221	BRACKETS	1	Pcs
222	PLAQUE 6.4X30	1	Pcs
223	HEXAGONAL NUT G 3/4"	2	Pcs
224	FIBER GASKET (G4)	4	Pcs
225	NUT FOR SCREW CODE 660	4	Pcs
226	ISO 4017 SCREW - M6X30 - 8.8	4	Pcs
227	ELASTIC WASHER FOR SCREW CODES	4	Pcs
228	HEXAGONAL NUT G 3/4"	2	Pcs
229	FIBER GASKET (G4)	4	Pcs

Items	Description	Quantity	U.o.M.
230	NUT FOR SCREW CODE 660	4	Pcs
231	ISO 4017 SCREW - M6X30 - 8.8	4	Pcs
232	ELASTIC WASHER FOR SCREW CODES	4	Pcs
233	HEXAGONALE NUT G 1/2"	1	Pcs
234	FIBER GASKET (G3)	1	Pcs
235	FLAT FILLISTER HEAD SCREW M12x30	8	Pcs
236	WASHER 13/20	8	Pcs
237	ADJUSTMENT SCREW M56	2	Pcs
238	FIXING SCREW FOR PEDESTAL O.C.E.	2	Pcs
239	TAPER PIN 30X190	2	Pcs
240	HEXAGONAL NUT M24	2	Pcs
241	TAPER PIN 30X190	2	Pcs
242	INTERMEDIATE SHIMS 0.5 mm	1	Pcs
243	INTERMEDIATE SHIMS 0.3 mm	2	Pcs
244	INSULATED SCREW (M12X100)	2	Pcs
245	HEXAGONAL HEAD SCREW M12X14	2	Pcs
246	HEXAGONAL HEAD SCREW M48X340	4	Pcs
247	CONIC PIN 16 X 100	2	Pcs
248	HEXAGONAL HEAD SCREW M24x70	4	Pcs
249	HEXAGONAL HEAD SCREW M8x30	4	Pcs
250	WASHER 8.4/25 ST/ZN	4	Pcs
251	HEXAGONAL HEAD SCREW M8x30	4	Pcs
252	WASHER 8.4/25 ST/ZN	4	Pcs
253	FLAT FILLISTER HEAD SCREW M12x30	8	Pcs
254	WASHER 13/20	8	Pcs
255	ADJUSTMENT SCREW M56	3	Pcs
256	FIXING SCREW FOR PEDESTAL O.C.E.	2	Pcs
257	TAPER PIN 30X190	2	Pcs
258	HEXAGONAL NUT M24	2	Pcs
259	TAPER PIN 30X190	2	Pcs
260	INTERMEDIATE SHIM 0,3 mm	2	Pcs
261	INTERMEDIATE SHIM 0,5 mm	4	Pcs
262	HEXAGONAL HEAD SCREW M10X25 - 8.8	3	Pcs
263	WASHER M10	3	Pcs
264	INSULATED SCREW M12X55	2	Pcs
265	HEXAGONAL HEAD SCREW M12X14	2	Pcs
266	HEXAGONAL HEAD SCREW M48X340	4	Pcs
267	CONIC PIN 16 X 100	2	Pcs
268	HEXAGONAL HEAD SCREW M24x70	4	Pcs
269	HEXAGONAL HEAD SCREW M8x30	4	Pcs
270	WASHER 8.4/25 ST/ZN	4	Pcs
271	HEXAGONAL HEAD SCREW M8x30	4	Pcs
272	WASHER 8.4/25 ST/ZN	4	Pcs
273	PARALLEL PIN	1	Pcs
274	INSULATING SECTOR	2	Pcs
275	UPPER INSULATING TAPE	1	Pcs
276	LOWER INSULATING TAPE	1	Pcs

Items	Description	Quantity	U.o.M.
277	ADAPTING PLATE	1	Pcs
278	ADAPTING PLATE	2	Pcs
279	ADAPTING PLATE	2	Pcs
280	ADAPTING PLATE	1	Pcs
281	SHIM 0.2	8	Pcs
282	SHIM 0.15	8	Pcs
283	SHIM 0.2	16	Pcs
284	SHIM 0.15	16	Pcs
285	PIN D30X70	1	Pcs
286	CYLINDRICAL PIN	2	Pcs
287	OIL DEFLECTOR IN TWO HALVES	2	Pcs
288	HEXAGON SOCKET HEAD CAP SCREW M16X80	4	Pcs
289	SOCKET HEAD SCREW M12x25	8	Pcs
290	HEXAGONAL HEAD SCREW M10x16	20	Pcs
291	GRUB SCREW M8x10	1	Pcs
292	PARALLEL PIN 8X30	12	Pcs
293	WASHER 10,5	20	Pcs
294	INSULATING SECTOR	1	Pcs
295	UPPER INSULATING TAPE	1	Pcs
296	LOWER INSULATING TAPE	1	Pcs
297	INSULATING PIN 30X120	1	Pcs
298	DOWEL PIN	2	Pcs
299	PIN	1	Pcs
300	CYLINDRICAL HEAD SCREW M24x120	4	Pcs
301	CYLINDRICAL HEAD SCREW M16x35	2	Pcs
302	HEXAGONAL HEAD SCREW M10x16	5	Pcs
303	GRUB SCREW M8x10	1	Pcs
304	CYL.PIN 12X35	3	Pcs
305	PARALLEL PIN 10X30	2	Pcs
306	WASHER 10,5	5	Pcs

Annexure 2: Key Performance Indicators (KPIs)

Time-based KPIs

Phase	KPI	Liquidated damages	Incentive
Procurement of material / equipment	Schedule compliance with 'Procurement Plan' for TG package prepared by the Successful Bidder as per Section 3.2.1 of Part 2 of this document	0.5% of total lumpsum price for supply of material / equipment for every week of delay in completion of 'Procurement Plan' beyond 6 weeks of contingency mentioned in Annexure 3 of this corrigendum	0.25% of total lumpsum price for supply of material / equipment for every week of delivery of material on site ahead of schedule as per 'Procurement Plan'
Execution of Overhaul	Schedule compliance with 'Overhaul Execution Plan' for TG package prepared by the Successful Bidder as per Section 3.1.1.1 of Part 2 of this document	0.5% of total lump sum price for Overhaul execution for every week of delay in completion of 'Overhaul Execution Plan' beyond 6 weeks of contingency mentioned in Annexure 3 of this corrigendum	0.25% of lump sum price for Overhaul execution for every week of delivering ahead of schedule in completion of 'Overhaul Execution Plan'

Performance-based KPIs

Revised Clause 7.1.2 of Part 2 of the RfP:

KPI	Threshold (for each unit)	Liquidated damages
Turbine Heat Rate (THR) and 100% TMCR	Successful Bidder shall measure the THR of the turbines for both units as per Enthalpy Drop Test prior to shut down and inspection. The Successful Bidder shall execute the Enthalpy Drop Test within a 1-month period of acceptance of LoA. Successful Bidder shall guarantee the THR measured prior to inspection post completion of the Overhaul.	INR 0.72 Cr per 1 kCal/kWh increase in THR for each unit beyond the measured value prior to shut down and inspection.
Power output at 100% TMCR load, rated steam conditions, rated backpressure, and zero makeup	125 MW	Successful Bidder shall demonstrate the Power Output at 100% TMCR, subject to performance of equipment outside the Successful Bidder's scope, and proportional to the TMCR.

KPI	Threshold (for each unit)	Liquidated damages
		Deviations (if any) should be as per OEM design documents
Noise level	85 dB (at 3m)	Successful Bidder shall demonstrate the noise levels during commissioning.

The Successful Bidder shall be responsible for appointing a credible third-party inspection agency, at the Successful Bidder's own cost, to certify the calculation of the Turbine Heat Rate, both prior to shut down and inspection and post the overhaul. The third-party agency shall prepare the procedure for testing, and associated templates for estimation of the THR and get it approved by the Owner and the PMC prior to initiation of the test.

The third-party agency shall submit the final THR value for approval to the Owner and the PMC. The values certified by the third-party agency and approved by the Owner and the PMC shall be the final THR value considered for establishing the pre and post overhaul baseline and shall be the final reference values for the calculation of liquidated damages, if any.

Annexure 3: Duration of Contract

Revised timeline table in Clause 2.2 of Part 2 of the RfP:

S. No	Activity	Duration
1	Mobilization	T + 2 weeks
2	Completion of supplies for both units (on-site delivery)	T + 34 weeks
3	Completion of pre-Overhauling activities for both units	T + 34 weeks
4	Capital Overhauling and commissioning of turbines across both units	T + 46 weeks
5	Completion of Performance Guarantee Testing for both units	T + 50 weeks

T – date of acceptance of LoA

In the overall timelines starting with completion of supplies for both units (S. No. 2 in the above table), Successful Bidder shall be provided 6 weeks of contingency to account for on-ground exigencies.

The Successful Bidder shall adhere to the timelines specified for supply of material and execution of Overhaul. In order to accommodate for high lead times in procurement of select spares, other modes of execution (e.g., procurement of select spares of equivalent specification as defined by the OEM from alternate customers based on availability, and replenishment) may be explored by the Successful Bidder in collaboration with the Owner. The modalities of execution shall be mutually discussed and agreed upon between the Successful Bidder and the Owner, in consultation with the PMC.

Annexure 4: Measured parameters

Unit 1

Parameters	Units	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Average Unit Load	MW	80.00	70.00	78.00	82.00	55.00	94.00	85.00	77.00	100.00	88.00	83.00	65.00
Main Steam Flow	TPH	259.00	227.00	254.00	265.00	190.00	306.00	275.00	252.00	323.00	285.00	266.00	208.00
Main Steam Pressure	Barg	106.00	94.00	94.00	99.00	82.00	109.00	100.00	99.00	113.20	104.00	89.00	84.00
Main Steam Temperature	°C	521.00	513.00	531.00	520.00	522.00	537.00	535.00	523.00	526.00	524.00	524.00	535.00
Main Steam Enthalpy	Kcal/kg	818.40	816.81	827.65	819.69	825.42	827.44	828.52	820.33	818.38	819.61	823.58	831.36
Feed Water Temperature	°C	224.00	218.00	224.00	224.00	205.00	232.00	225.00	223.00	235.00	229.00	226.00	215.00
Hot Reheat Pressure	Barg	21.60	19.30	21.70	22.00	16.00	25.81	22.80	20.00	27.60	24.00	23.00	18.00
Hot Reheat Temperature	°C	520.00	512.00	522.00	515.00	487.00	537.00	529.00	510.00	532.00	515.00	533.00	514.00
Hot Reheat Enthalpy	Kcal/kg	839.87	836.20	840.91	837.12	823.93	847.93	844.37	834.97	844.83	836.62	846.45	837.59
Cold Reheat Pressure	Barg	23.80	21.30	23.17	24.60	17.00	27.39	24.30	22.00	30.10	26.70	25.00	19.30
Cold Reheat Temperature	°C	333.00	328.00	343.00	342.00	339.00	353.00	348.00	345.00	350.00	348.00	354.00	346.00
Cold Reheat Enthalpy	Kcal/kg	739.39	738.08	745.20	743.90	746.34	748.50	747.35	746.92	745.42	746.10	750.27	748.86

Unit 2

Parameters	Units	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Average Unit Load	MW	57.00	63.00	74.00	53.00	51.00	85.00	56.00	78.00	78.00	67.00	70.00	72.00
Main Steam Flow	TPH	185.00	209.00	238.00	181.00	176.00	268.00	196.00	251.00	245.00	212.00	225.00	229.00
Main Steam Pressure	Barg	82.60	84.00	99.00	77.90	89.00	102.00	91.80	94.00	103.00	95.00	93.00	94.00
Main Steam Temperature	°C	524.00	534.00	535.00	516.00	533.00	539.00	533.00	535.00	538.00	537.00	520.00	537.00
Main Steam Enthalpy	Kcal/kg	825.25	830.78	827.59	821.80	828.93	829.24	828.22	828.85	828.38	829.79	820.13	830.05
Feed Water Temperature	°C	203.00	206.00	214.00	201.00	197.00	221.00	201.00	217.00	216.00	210.00	213.00	213.00
Hot Reheat Pressure	Barg	15.40	17.50	19.60	14.70	13.60	22.10	14.80	20.70	20.40	17.50	18.80	19.00
Hot Reheat Temperature	°C	503.00	519.00	527.00	489.50	532.00	533.00	513.00	524.00	532.00	526.00	530.00	527.00
Hot Reheat Enthalpy	Kcal/kg	832.46	840.35	844.07	825.59	848.12	846.66	837.86	842.21	846.53	844.04	845.85	844.21
Cold Reheat Pressure	Barg	17.00	18.50	21.50	16.40	15.20	23.90	16.21	22.10	21.80	19.00	20.80	21.00
Cold Reheat Temperature	°C	339.00	338.00	334.00	334.00	329.60	340.00	323.00	338.00	319.00	328.00	335.00	335.00
Cold Reheat Enthalpy	Kcal/kg	746.34	745.01	741.23	744.02	742.36	743.19	738.33	743.07	732.85	739.39	742.16	742.05

Annexure 5: Payment milestones

Revised Clause 2.2 of Part 2 of the RfP:

Category	Activity	% of value	Timelines
Supply of material	Advance payment for procurement of spares, after submission of Performance Security and submission of item-wise price list	10%	T + 2 weeks
	Issuance of POs for procurement of spares	25% (pro-rated) ¹	T + 10 weeks
	Delivery of material on site with physical verification, certification, and sign-off by the PMC	60% (pro-rated) ¹	T + 34 weeks; 6 weeks of contingency considered; LD applicable beyond T + 40 weeks
	Completion of defect liability (warranty period)	5%	18 (eighteen) months from the date of Completion of the Overhaul or 12 (twelve) months from the date of Operational Acceptance of the equipment, whichever first occurs
Overhaul execution	Mobilization fee after submission of Performance Security	10%	T + 2 weeks
	Monthly payments against progressive installation of equipment on site	15% (Per month)	Monthly payments in equal installments for 3 months during Overhaul execution
	Completion of the Overhaul activities for TG including all associated auxiliaries and ancillary works for both units and issue of Completion Certificate by the PMC	15%	T + 46 weeks; 6 weeks of contingency considered; LD applicable beyond T + 52 weeks
	Completion of Guarantee Tests for both units and issue of Operation Acceptance Certificate by the PMC	15%	T + 50 weeks; 6 weeks of contingency considered; LD applicable beyond T + 56 weeks
	Submission of final 'Overhaul Completion Report' approved by Authority	10%	T + 52 weeks; 6 weeks of contingency considered; LD applicable beyond T + 58 weeks
	Completion of defect liability (warranty period)	5%	18 (eighteen) months from the date of Completion of the Overhaul or 12 (twelve) months from the date of Operational Acceptance of the equipment, whichever first occurs

¹ Bidders to provide detailed item wise price for the required spares detailed in Annexure 1 of this document within 7 days from date of acceptance of LoA. The payment on delivery of material on site shall be pro-rated as per the items delivered against the required spares, upon certification by the PMC.

Annexure 6: Workforce deployment

S. No	Member	Role	Minimum requirement	Minimum Qualification
1	TG Package Leader	Overall package coordinator	1	Graduation in Mechanical / Electrical / Power / Instrumentation / or equivalent Engineering (BE / B.Tech) with at least 10 years' experience
2	Mechanical Lead	Supervisor for mechanical activities	1	Graduation in Mechanical / Electrical / Power / Instrumentation / or equivalent Engineering (BE / B.Tech) with at least 7 years' experience
3	Electrical Lead	Supervisor for electrical activities	1	
4	Instrumentation Lead	Supervisor for C&I activities	1	
5	Safety Lead	Supervisor for ensuring EHS (environment, health and safety) activities	1	

Annexure 7: Schedule of Bidding

Revised schedule of bidding, Clause 1.6 of Part 3 of the RfP is as follows:

Activity	Schedule
Online submission of Price Bid	Bidders shall submit their Price Bids online on https://gmdc.nprocure.com on or before 07 th August 2023
Submission of Technical Bid (hard copy), RFP Fee and EMD in person	<p>Bidders shall submit their Technical Bids on or before 08th August 2023 up to 1800 hrs. at the following address:</p> <p>Gujarat Mineral Development Corporation Ltd Khanij Bhavan, 132-Ring Road, Gujarat University Ground, Vastrapur, Ahmedabad- 380052</p> <p>The Technical Bid, RFP fee, and EMD shall be made by Speed Post / RPAD / Hand / Courier</p>