भारत सरकार
अंतरिक्ष विभाग
सतीश धवन अंतरिक्ष केंद्र शार
श्रीहरिकोटा रेंज डा.घ. 524 124
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सत्यमेव जयते

Goverment of India
Department of Space
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GOVERNMENT OF INDIA:: DEPARTMENT OF SPACE
SATISH DHAWAN SPACE CENTER SHAR:: SRIHARIKOTA – 524 124
SRI POTTI SREERAMULU.NELLORE DISTRICT (A.P)

TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/VALF/30/2022-2023

On behalf of President of India, Sr. Head Purchase and Stores, SDSC SHAR, SRIHARIKOTA invites on line quotations for the following.

Sl.No	Ref. No.	Description	Qty.
01.	SHAR VALF 2022001596 New E-Procurement [Public Tender – Two Part]	NON COMPREHENSIVE AMC FOR EOT CRANES	1 LOT

Last Date for downloading of tender documents : 22.12.2022 at 16:00 hrs.
Due Date for submission of bids online : 22.12.2022 at 16:00 hrs.
Due Date for opening of tenders : 23.12.2022 at 14:30 hrs.

Instructions to Tenderers:

Bids shall be submitted on line through EGPS only and No tender fee shall be applicable.

01. For full details/scope of work and terms and conditions etc., please see the enclosed annexures.

02. Interested tenderers can download the e-tender from ISRO e-procurement website ISRO NEW E-PROCUREMENT (www.eproc.isro.gov.in) and submit the offer on line in the e-procurement portal. Offers sent physically by post/courier/in person will not be considered.

03. Tender documents are also available on ISRO website www.isro.gov.in ISRO New e-procurement website (www.eproc.isro.gov.in) and SDSC SHAR, Sriharikota website www.shar.gov.in. The same can be down loaded and offer submitted on line in the new e-procurement portal only.

04. Quotations received after the due date/time will not be considered.

05. The tender documents are available for download up to 22.12.2022 at 16:00 hrs. and last date for submission of tenders on line 22.12.2022 at 16:00 hrs. and Tender Opening on 23.12.2022 at 14:30 hrs.

06. Interested vendors can attend the Bid opening sessions to know the details. Presence not mandatory to consider the quote for evaluation.

07. Sr. Head, Purchase and Stores, SDSC-SHAR, Sriharikota reserves the right to accept or reject any/or all the quotations.

DT: 25.11.2022

Sr. HEAD PURCHASE AND STORES

MAINTENANCE CONTRACT FOR EOT CRANES, HOT, ELECTRICAL & PNEUMATIC HOISTS IN SDSC SHAR

1.0 SCOPE OF WORK

It is proposed to enter into a **non-comprehensive** contract for maintenance of EOT cranes, Electrical hoists, HOT and pneumatic hoists in SDSC SHAR, Sriharikota.

153 No's of EOT cranes, 15 No's of HOT cranes, 21 Nos. of pneumatic hoists and 6 Nos. of electrical hoist (Total 195 cranes) are to be maintained as per Preventive maintenance check list and Major works & Stand by duty support are to be extended for the critical operations as detailed in the specification document in Annexure-A.

1.1 The following maintenance has to be carried out on each of the above cranes.

1. Periodical Preventive Maintenance (PPM)- Two times in a year (every six month)
2. Load testing - Once in a year
3. Break down maintenance - As and when required unlimited

1.2 Minor and Major break-down calls shall be attended within 12 hours from the time of intimation and Crane shall be made operational within 24 hours to 72 hours respectively without any extra charge.

1.3 **PPM: Periodical Preventive Maintenance**: The service provider shall carry out both electrical and mechanical maintenance as per the check list in **Annexure –A.** It is required to go through the check list and assess the works while submission of quote. PPM is to be carried out once in six months with few works in alternate PPM as per check list. Detailed check list will be issued for each carne as per type. Any minor works related to PPM are to be carried out as part of PPM without additional claims.

1.4 Submission of daily report and verified check list after PPM with certification by department representative is part of service provider work.

1.5 Supply of non-available Spares, mechanical /electrical reconditioning/machining, Modification, Rectification, Additional maintenance & stand by works are to be carried out at additional cost other than Preventive maintenance as per **Annexure –C**, **whenever required only.**

1.6 If any additional PPM and load testing need to be done due to any reasons for existing cranes (or) if any new cranes erected other than listed, at the request of Department, the service provider shall undertake such works at the same cost of similar type of cranes.

1.7 The maintenance of **VVVF drives** of cranes **are not in the scope** of Service provider. However, all other electrical / mechanical systems of cranes are in the scope of service provider as part of service contract.

2.0 DURATION OF THE CONTRACT

The period of contract shall be for **one year** after placement of the firm Purchase Order. The contract may be extended for a further period of one more year (2^{nd} year) on the same terms and conditions on satisfactory completion of one year contract period on mutual agreement basis.

3.0 WORK CENTRES

3.1 Satish Dhawan Space Centre (SDSC SHAR) is located in the Sriharikota Island at 17 kilometers East of Sullurupeta. Sullurupeta is 83 kilometers from Chennai on

national Highway 5 towards Calcutta and Delhi side. Sullurupeta is connected with train route on Chennai – Gudur Section and is well connected with Suburban trains from Chennai. The Cranes are available in Sriharikota at different facilities. Facility to facility distance is approximately about 1 to 10 kilometers.

3.2 For effective supervision during the maintenance, these cranes are divided into two work centers designated as WORK CENTRE–A (VALF) and WORK CENTRE–B (SMPC UNIT 1). Cranes which are to be maintained under work centers each of these given below. The brief specifications of cranes under each work center is given in **Annexure-B**.

Sl No	Work station	Type of crane		Location	Distance from Security Gate-I to work centers
1	WORK CENTRE –A	EOT Cranes	66	VALF	8 Kms
		HOT Cranes	15		
		Electrical hoist	6		
2	WORK CENTRE –B	EOT Cranes	87	SMPC 1	9 Kms
		Pneumatic hoist	21		

3.3 The cranes to be maintained are located in various buildings and each building is separated by a minimum distance of about 600 mtrs. The service provider shall move about a distance of 20/30 Km every day from Gate II security post. For easy mobility of his maintenance staff, the service provider shall arrange own sufficient transport separately for each work centers.

4.0 SKILL SET REQUIRED

4.1 The service provider shall mobilize the following qualified and experienced maintenance personnel for the above said work.

	Category	Qualification and experience
1	Supervisor/Engineer	Minimum Diploma in Mechanical/Electrical Engineering with Three years' experience in maintenance of EOT cranes.
2	Sr.Technician	Minimum ITI certificate in fitter trade with minimum Three years' experience in maintenance of EOT cranes.
3	Sr.Electrician	Minimum ITI certificate in Electrician trade with minimum with Three years' experience in maintenance of EOT cranes.
4	Helpers	Minimum 10^{th} class with Two years' experience in maintenance of EOT cranes or similar overhead maintenance activities.

4.2 For a given day, normally 3 cranes in each work centre may be provided for maintenance. It means that service provider, at any given time, may have to engage minimum Six (6) Groups of maintenance teams simultaneously for six (6) different cranes in Two work centers. If the cranes per day increases, party has to deploy additional teams as required.

Each work centre shall be supervised for Trouble shooting, Quality, Safety, Facility coordination, Tools, Spares parts management and other related works by the service provider by engaging his own supervisory staff for each per work centre.

The supervisor/Engineer engaged should be able to prepare and submit daily report, monthly report, check list, trouble shooting the cranes etc as per given formats.

Maintenance activities shall be completed as per the given monthly schedule. Because of launch/crucial activity in the facilities, the crane maintenance may have to be completed early; Service provider has to complete maintenance with additional man power without any extra cost in such cases.

4.3 Each team shall consist of required No. of qualified Service technician, Electrician, and Helpers with relevant experience to ensure the timely completion of work.

4.4 **It is required that PPM works have to be completed for:**

1t to 10 t capacity cranes within 2 days; Above 10t to 120t within 4 days;

Above120 t to 250t within 10 days; 400 t and above within 15 days

Unless otherwise there is additional works arises or any other delay from department side. The penalty clause will apply as per Sl No 18 if any delay occurs on part of service provider. Time for Load test is additional after completing PPM.

4.5 Depending on the workload the service provider may have to increase the work force and work beyond office working hours or on holidays as per the instructions of the Engineer-in-charge to complete maintenance activities on demand.

4.6 The Service provider shall submit the documentary evidence for the qualification and experience of the persons engaged for work.

4.7 From Department side, a representative will be identified for each work station to coordinate the works and get daily feedback.

5.0 WORKING HOURS

5.1 General working timings is 09.00 hrs. to 17.30 hrs. from Monday to Saturday. On Saturday, depends on facility availability and prior planning, cranes are to be taken up or continued for maintenance. Depending on requirement, the working hours shall be extended on mutual agreement between Engineer-In- charge of the facility and service provider after office hours and holidays because of urgency.

5.2 By any chance if the service provider fails to complete the maintenance of cranes as per the given schedule in the particular month, it is the responsibility of the service provider to mobilize additional manpower to complete the same within the stipulated time. In such case **no extra payment will be made** for that additional manpower engaged by the service provider.

5.3 The actual monthly schedule will be prepared and confirmed by the contract manager/ Engineer-in-charge based on the process requirements and informed to the party in the previous month for planning the resources.

6.0 CRANES TO BE MAINTAINED

6.1 List of cranes to be maintained for work station – A & B are given in **Annexure-B**

7.0 SUPPLY OF SPARES & MECHANICAL /ELECTRICAL RECONDITIONING&MACHINING

7.1 **Materials, spares, components** like oil, brake shoes, bearings, seals etc., will be supplied by the Department. In case if it is not in the stock with the Department, the service provider will be asked to purchase them from authentic vendors with prior approval from dept. Any quality /test certificate for genuineness of material, if demanded by department, party has to submit. The service provider shall ensure competitive prices while procuring the materials from market.

7.2 **Rewinding of electrical motors, brake coils etc., shall be carried out by the service provider** if required. The service provider can bill at a rate of the actual rewinding charges and copper material cost + 10% handling charges. The service provider shall produce original bill (labour charges + copper coil cost) for the actual expenditure made in procuring of rewinding. The payment for the same will be settled considering reasonableness of the price at which the service provider has purchased such materials.

7.3 **The service provider shall undertake reconditioning/machining works** if required for any crane. The service provider shall produce bill for the actual expenditure made for machining/spares/materials + 10% handling charges. The payment for the same will be settled considering reasonableness of the price based on the prevailing market rates. The decision of the contract manager is final and binding on the service provider.

7.4 **PAYMENT**: Payment will be made for Sl No 7.1 to 7.3 through separately allocated fund under spares.

8.0 <u>MAJOR WORKS:</u>

A. MAJOR RECONDITIONING: The following works are classified under Major works.

1. Any Gear box removal/major repair/overhauling; Any Motor major repair/overhauling; Brake assembly complete removal and refitting with spare/new assembly; Rope drum removal/replacement/relocating for any repairs; Rail removal/replacement; Hook/Rope removal/replacements; Electrical panel/Drag Chain cables system removal/ replacement; LT/CT Wheels /axles replacement; any other related major work not limited to above decided by SDSC SHAR.

2. Removing and bringing down any heavy defective equipment/components such as motors, gearbox, brakes, shafts, wheels, couplings etc., from EOT crane for further repair is the responsibility of the service provider.

3. All the machining and other related manufacturing works would be carried out by Service receiver; In case of need, Service provider has to undertake machining, spares supply, hiring any special equipment which will be paid additional as per payment terms under Sl No 7.0

4. If it is minor repair work like filing, fitting etc., shall be carried out by the service provider free of cost. **The decision of Service receiver Engineer-in-charge on the nature of the repair (either major or minor) will be final.**

B. MODIFICATION / RECTIFICATION WORKS

Any major modification/rectification/& related fabrication works like replacement of similar/new/improved size mechanical drive line, hook, pulley, brake components etc., Brake system replacement, Gear box replacement including the activities mentioned under Major work above and any other modification/rectification works not listed above are to be undertaken.

C. ADDITIONAL MAINTENANCE & STANDBY WORK.

During the critical operations in assembly/process buildings, the service provider shall provide services of maintenance group on standby duty as and when needed to take care of any emergency requirement related to crane maintenance. The payment will be made on pro rata basis.

D. NEW CRANES MAINTENANCE OTHER THAN LISTED

If any new cranes require maintenance which are not covered in the contract, on mutual agreement, the work can be carried out and payment will be made on Pro rata basis for engaging service teams under Major works rate not exceeding AMC cost of similar type of crane available in the contract with the approval of Entity Head.

E. HYDRAULIC BRAKE THRUSTERS

The hydraulic thruster units are to be removed from cranes, overhauled including replacement of bearings, seals, oil, electrical items if any required. The schedule for overhauling will be issued crane wise. Payment will be made as per rate quoted for each thruster.

8.1 PAYMENT FOR MAJOR WORKS MENTIONED ABOVE

The party has to carry out all above Major works (Sl No A, B, C, D) under work package mode by providing services of One group of maintenance team on hourly rate basis. The work carried out will be paid based on time consumed for activity. One group of maintenance team shall compose of Sr.Technician, Electrician, and Helper etc.

9.0 TRANSPORTION AND ACCOMMODATION

9.1 The Service provider shall arrange their own conveyance / transport for their team and materials etc. There is no public transport available inside the range. Hence, Service provider must have own/hired vehicle for the transportation of his staff to Sriharikota for each work centre separately. It must be noted by the service provider that his staff shall travel about 20 to 30 km daily to reach various work spots. It is essential to make arrangement to reach the work spots for working timings of 9.00 to 1730 hrs. The Department will not provide any transport to the personnel of the service provider.

9.2 The Service provider shall make his own arrangements for lodging and boarding of his maintenance team at Sullurupeta. Service provider will not be permitted to construct any shed inside the range for the purpose. *Accommodation may be arranged subject to availability, on chargeable basis*. Private accommodation is available at Sullurupeta but not in SDSC SHAR, Sriharikota (Sullurupeta is 18 kms from Sriharikota).

10.0 GENERAL

10.1 The Service provider shall register the list of all his items, tools, and equipment etc., brought inside the range every time at the security gate. Department will provide place to keep a lockable storage cabinet at each Work center for keeping the tools. The Service provider cannot make any claim on the Department for the loss of his instruments, tools etc.

10.2 The Service provider shall indemnify the Purchaser/and/or any Officer, employee or any assignee thereof harmless from any loss, damage, liability or expense, on account of damage to the property or environment and injuries including death, to any persons not limited to, employees or agents of the Department, employees of the service provider or its sub-service provider, and all other persons performing any part of the work here under any occurrence caused by any act of commission / omission of the service provider or his sub-service provider or any of them. The service provider shall at his expense defend any suits or proceedings brought against the Department on account thereof and shall satisfy all judgments and pay all expenses which may be incurred by or rendered against them, or any of them in connection therewith. **The Service provider shall fulfill all the obligations required under Workmen Compensation act as amended from**

time to time. The Service provider shall ensure minimum wages as per relevant act.

10.3 ***The service provider shall insure his staff against all risk, accidents for the duration of the contract period at his cost. The service provider shall produce proof of insurance cover and proof of payment before starting the work at site in SDSC SHAR, Sriharikota for a value of Rs 10.00 Lacs for each person. The Department will not be responsible for any type of injury including death caused to the service provider's personal during the work. The service provider shall fulfill all the obligations required under workmen compensation act amended from time to time.***

10.4 The Department will not accept any liability for the service provider or his sub-service provider, their officers, employees or agents, servants or assigners or any of them or for their property while on the premises or in the service of the Department.

10.5 In case of any equipment or property of the Department is damaged by the service provider or his employees/agents, the same shall be rectified "free of any charge" by the service provider within the period specified by the Engineer-in-charge. If the repair is not carried out within the specified period, the service provider shall pay immediately the amount specified by the Department for the damage otherwise the amount will be recovered from the payments due to the service provider.

10.6 **The work shall include all the necessary labour, tools, transportation services and incidentals connected with the servicing and maintenance of the cranes.**

10.7 Some of the cranes may be deleted from the scope of work during the contract period. Similarly, some new cranes may be added in scope. The service provider shall undertake servicing of such additional cranes at the same rates available in the contract for similar capacity of cranes.

10.8 Before quoting, the service provider may visit the site for getting firsthand information on the site conditions, the crane locations and other aspects.

10.9 The offer for Servicing & maintenance of EOT Cranes, Major modifications / rectifications works and total maintenance cost shall be as per the **Annexure-C** of Tender document. (Other type of offers or offer with any other conditions will not be accepted).

10.10 If there is any dispute, on the quality of the work or schedules, the decision of the Engineer in charge of the respective workstation is final and binding on the service provider.

10.11 ***The service provider staff shall wear Personnel Protective equipment (PPE) such as helmets, cotton uniform, safety belts, shoes, safety goggles etc.,***

10.12 The service provider shall ensure that all his workers are wearing Cotton Uniform, safety jackets and Leather Shoes at work site.

10.13 The service provider should not remove or engage any person without the knowledge and concurrence of the Department Engineer-in-charge of respective work site.

10.14 The service provider should abide by the statutory provisions, rules and regulations of Government of India and Government of Andhra Pradesh in force from time to time for his personnel including ensuring of minimum wages, remittance of PF, insurance, medical allowance etc., The service provider shall furnish the documentary proof if demanded by dept.

10.15 It is the responsibility of the service provider / his staff to maintain the cleanliness of the maintenance bay, office working premises etc.

10.16 The service provider should mobilize his team within 10 days from the date of receipt of the purchase order.

10.17 The service provider should deploy the maintenance staff with age not exceeding 60 years.

10.18 OFFER **VALIDITY**: The tenderer shall give a minimum validity period of 120 days from the tender due date for the bids.

10.19 INCOME TAX: Income tax at the prevailing rate as applicable and if applicable from time to time shall be deducted from the supplier's bills as per Income Tax Act and a certificate issued (TDS Certificate).

11.0 CONSUMABLES

Minimum quantity of consumables for period of six months per work centre to be brought for servicing and maintenance of cranes is listed below (i.e., four times the quantities indicated below is required per year for two centers. The maintenance charges shall include these costs and no separate charges are payable.

Sl. No	Description	Qty
1	Banyan Yarn Cotton waste	100 Kgs
2	Anabond sealant	20 Nos
3	Tri Chloro Ethylene/Cleaning solvent/kerosene	20 Litres
4	Compressed gasket sheets as per required thickness	05 Sq.m
5	Emery sheets, Rough/Fine	50 Nos
6	Insulation tape in three different colours	20 Nos
7	Teflon tape	10 Rolls
8	M seal	01 Kg

However, any additional quantities consumables if required have to be borne by the service provider.

12.0 ENTRY PASSES FOR SERVICE PROVIDER'S STAFF

The service provider and his staff need photo entry passes issued by the department to enter into work spots at SDSC SHAR, Sriharikota. For this purpose, the service provider shall verify and certify their authenticity of all his staff and adhere to department requirements. The service provider should abide by the security restriction imposed by the department for his personnel, tools and materials from time to time.

Service provider personnel if removed from rolls, the entry passes shall be returned to the Department immediately with a covering note. Non-surrender or misplacement of any entry pass shall be charged from the service provider at the rates prescribed by the Department from time to time.

13.0 As SDSC SHAR is a highly restricted and sensitive area, service mechanics planned for deputation shall have high integrity and shall be certified by the Service provider.

14.1. **SECURITY DEPOSIT**

14.2. **The Service Provider shall guarantee faithful execution of the Work Package Order(s) in accordance with the terms and conditions specified. As a performance security, the Service provider shall furnish security deposit for 3% of the annual total work.**

14.3. Package order (s) value in the form of Demand Draft/Fixed Deposit Receipt/Banker's cheque /Bank guarantee issued by a scheduled Bank as approved by the Reserve Bank of India and shall be valid beyond 2 months from the date of completion of the contract. The security deposit shall not carry any interest and shall be returned by the service receiver on completion of all the contractual obligations. The security deposit has to be executed within 30 days after the receipt of work package order (s) as per our specimen. **No extension of the date for submission of the security deposits will be entertained by the service receiver and failure to submit in time will result in cancellation of the work package order(s).**

14.4. In case of breach of any conditions under the Work Package Order(s), the Security Deposit shall be liable to be forfeited by the Service Receiver. In addition, the Work Package Order(s) is also liable to be terminated and any amount due to the Service Provider against any other Work Package Order (s) from the Service Receiver is also liable to be appropriated.

14.5. In case of partnership firm, "power of attorney" should be signed by one person on behalf of others. Any breach of these conditions by the Service Provider in relation to the Bidding Establishment or Partner or Shareholders or Directors or Executives or Office Bearers, the tender/works package will be cancelled and Security Deposit will be forfeited at any stage whenever it is so noticed. The Service receiver will not pay any damages to the Service Provider. The Service Provider will also be debarred from further participation in the concerned unit of the Service receiver.

15.0 PAYMENT TERMS

1. Payment shall be made once in a month for the work carried out by the service provider.
2. AMC charges will be paid as per rate quoted in Annexure – C.
3. For Machining/Reconditioning/Spares payment will be made as per bills submitted under clause Sl No 7.0.
4. For Major works, payment will be made as per Clause Sl No 8.0.
5. For arranging payments, the service provider shall submit invoice to Contract Manager certified by Engineer in-charge of respective work station after satisfactory work completion.
6. Income Tax deduction at source will be done from the payments of the service provider as per IT rules in force.
7. *The quantity for major works under Sl No 8.0 may vary + (or) - 25%.*

16.0 APPLICABLE LAW AND JURISDICTION

The laws of India shall govern this contract for the time being in force. The Courts of Andhra Pradesh, India only shall have jurisdiction to be with and decide any legal matters or disputes what so ever arising out of the contract.

17.0 FORCE MAJEURE

a) Notwithstanding anything contained in the provisions of conditions of Works package, the Successful Service provider shall be liable for forfeiture of its Security Deposit, penalty or termination for default, if and to the extent that, its' delay in performance or

other failure to perform its obligations under the works package is the result of an event of Force Majeure.

b) In case, completion of job is delayed by any circumstances such acts of god, sabotages, civil commotion, riots, insurrections, earthquake, fire, flood or other natural events beyond the control of the service provider, which makes their work-force unable to complete the tasks assigned to them in time, then the service provider shall give notice within 15 days to the service receiver in writing of his claim for an extension of time. The service receiver on receipt of such notice after verification if necessary may agree to extend the period of work package as may be reasonable without prejudice other terms and conditions of work package order(s).

c) If a Force Majeure situation arises, the Successful Service provider shallpromptly notify SDSC SHAR (service receiver) in writing of such conditions and the cause thereof. Unless otherwise directed by SDSC SHAR in writing, the Successful Service provider shall continue to perform its obligations under the Works packages far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

Termination for Insolvency

d) Competent authority (SDSC SHAR) may at any time terminate the Works package by giving written notice of 30 days to the Successful Service provider, if the successful service provider becomes bankrupt or otherwise insolvent.

e) In this event, termination will be without compensation to the Successful Service provider, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter tocompetent authority (SDSC SHAR).

Termination for Convenience

f) Competent authority (SDSC SHAR), by written 30 days' notice sent to the Successful Service provider may terminate the Works package, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for SDSC's convenience, the extent to which performance of the Successful Service provider under theWorks package is terminated, and the date upon which such termination becomes effective. However, any undisputed payment to the invoices of the task accomplished by successful service provider would be paid by competent authority (SDSC SHAR).

Disputes, Arbitration, Applicable Law and Jurisdiction

g) The Service Provider shall be solely responsible for the redressal of grievances/ resolution of disputes relating to the work-force engaged by them. Service receiver shall in no way be responsible for the settlement of such disputes. Service Provider should maintain a record of grievances received from their work-force (personal) and action taken for settlement.

h) ARBITRATION CLAUSE: - The Contract shall be interpreted, construed and governed by the Laws in India. In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Order(s), such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Office of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre - Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only.

i) The Laws of India shall govern this Works packagefor the time being in force. The courts of Andhra Pradesh only shall have jurisdiction to be with and decide any legal matters or disputes whatsoever arising out of the works package.

18.0 PENALTY

a. Penalty Clause for Preventive Maintenance: If the Party fails to attend to Scheduled Periodic Maintenance to the crane within the time frame as per Sl No 4.4, due to the fault of the Service provider, a Penalty of 2% of AMC Rates of that Crane per day delay will be recovered subjected to maximum of 10% of the value of that particular Crane Maintenance.

b. Party has to deploy manpower for attending to Stand-by duty for critical operations with prior intimation of 1 day by the department. If the Party fails to deploy manpower for attending to Stand-by Duties, a Penalty of the Cost quoted per Hour will be deducted to the extent of requested man hours.

c. In case of any damage to the equipment or tools or components due to the negligence of the personnel or work of the service provider during the course of maintenance the same will be rectified to the satisfaction of the Department at no extra cost.

19.0 CANCELLATION OF CONTRACT

In case the service provider did not carry out the work as per terms and conditions of the contract or his services are not satisfactory, the contract will be cancelled with advance notice of two weeks.

20.0 INFORMATION TO BIDDERS

The quotation should be in parts

PART – 1	:	TECHNICAL AND COMMERICAL BID
PART-2	:	PRICE BID

A. <u>BID SUBMISSION</u>

Bids duly filled in by the Bidder should invariably be submitted as stipulated in the Letter inviting bid. Bids shall be submitted in the following manner.

PART – I: UN PRICED TECHNO-COMMERCIAL PART OF THE BID

1. Complete Techno–commercial part of the bid shall be filled online in the "vendor Specified Terms' form of the e-tender. Any documents related to technical literature, any other supporting documents as per the tender requirement shall be scanned in lower resolution format and uploaded to the e-tender under 'Documents solicited from Vendor' form only in ISRO e-procurement portal.

2. The following enclosures shall be uploaded along with the techno-commercial bid as attachments in the Part 1 Bid.

a) Supporting documents to confirm meeting the pre-qualification criteria.

b) Confirmation/ Compliance statement as per Annexure-D

c) Any other techno-commercial information related to the tender

d) Stamped and signed copy of RFP.

e) Un priced bid format as per Annexure C, confirming all items are quoted by filling all columns with Tax % & without prices.

f. The deviation statement and checklist shall be filled online, without which the bid will not be considered.

PART – II: PRICE BID PART

a. Price bid shall be filled in the on-line 'price bid' form of the e-tender only in ISRO e-procurement website.

b. Price bid break up as per Annexure –C (Table1, 2, 3, 4) shall be filled and uploaded in the Price bid documents.

B. BID OPENING

SDSC SHAR may open Part – I of the bid on the due date of opening. Subject to meeting the minimum evaluation criteria, Price Bids (Part-II) of technically and commercially acceptable offers shall be opened at a later date.

a) SDSC SHAR reserves the right to reject any or all the Bids without assigning any reasons thereof.

b) The break-up of prices as per Annexure-C (with prices) shall be enclosed along with price bid only.

c) ***Any bids / offers with price details in Techno-Commercial Offer (Part –I) shall be rejected.***

d) SDSC SHAR reserve rights to place order for either full quantities of all items or partial quantities and partial items based on the unit rates available.

21. PRE-QUALIFICATION CRITERIA

Bidder shall meet the following qualification criteria and bidder shall submit all the relevant documents supporting the qualification criteria. Bids of those who don't meet the criteria will not be considered for evaluation.

A. Tenderer shall have a minimum of Five years of experience in the field of maintenance of EOT cranes.

B. The bidder should have Annual Turnover of not less than Rs 200 Lakhs per year during last three financial years ending with 31.03.2022.

C. Service provider shall have maintained at least 50 Nos. of EOT cranes (Mechanical & Electrical systems) in any one of last five years out of which at least one higher capacity cranes i.e. 50t or above are included.

D. Service provider shall have Single work order of Rs 50.00 Lakhs (or) Two work orders of Rs 30.00 Lakhs each (or) Three work orders of Rs 20.00 Lakhs each during last 5 years (or) cumulative order value of not less than Rs 50.00 Lakhs at a given point of time in a year during last 5 years.

E. The list of clients along with copies of Work orders / Purchase orders & completion certificates (Government & private) are to be submitted for the support of above pre qualification criteria.

ANNEXURE – A

CHECK LIST FOR E.O.T. CRANE INSPECTION
PERIODICAL PREVENTIVE MAINTENANCE(PPM)

1.0	**BRIDGE RAILS (L.T) and (C.T)**
1.1	Check the tightness of fasteners of crane rails and clamps on L.H.S& R H S with L.T.Girder& C.T Bridge.
1.2	In case of crane rails and clamps welded, check the weld on L.H.S.&R H S of crane rails/clamps with the L.T. Girder
1.3	Check rail wear on top and sides of L.H.S. & R H S and report.
1.4	Alignment shall be checked and realigned if required.
2.0	**END CARRIAGE (END TRUCKS):**
2.1	Check overall condition of End carriage such as cracks or wear due to rubbing on wheels against any obstructions on L.H.S & R.H.S.
2.2	Check the Rail Sweeps for proper fixing and its tightness on L.H.S.&R.H.S.
2.3	BUMPERS:- Check for proper functioning of Bumpers
2.4	Check for proper tightness of fasteners connecting end carriages to Bridge girder.
2.5	Check for tightness of attachment to end carriages
3.0	**WHEELS : (L.T.) and (C.T)**
3.1	Check the tightness of fasteners of wheel mounting brackets (All wheels)
3.2	Check the tightness of fasteners of wheel bearing inspection covers (All wheels)
3.3	Check the wheel axle for proper alignment.
3.4	Check/Observe visually about the condition and noise of the wheel bearings, proper lubrication of wheel bearings and replace bearings if required and lubricate as required.
4.0	**DRIVE SYSTEM: (L.T.MAIN) and (L.T.MICRO)**
4.1	Check the tightness of fasteners for the motor base and rectify slackness if any.
4.2	Check the tightness of fasteners for the brake unit base and rectify slackness if any.
4.3	Check the tightness of fasteners for the Gear box base.
4.4	Check the tightness of fasteners for Drive Shaft connecting the wheels and rectify slackness if any.
4.5	Check the brake drum joints and rectify the defects if any.
4.6	Check the tightness of the key, coupling condition
4.7	Check for the lubrication of the coupling and lubricate if reqd.
4.8	Check the gear coupling joint for wear; if replacement is necessary, replace with new ones.
4.9	Check the tightness of fasteners for Gear coupling.
4.10	Check the tightness of fasteners of the upper halves of the gear box.
4.11	Check the tightness of fasteners on both side cover plates of the Gear Box.
4.12	Check for breather hole freeness.
4.13	Check the condition of the oil. & level through dipstick/indicator
4.14	Check for any leakage of oil through Gasket/oil seal etc.,
4.15	Observe the Gear box noise level and record.
4.16	General condition of the drive system.

4.17	Alignment shall be checked and realigned if required.
4.18	Check the tightness of fasteners for Plummer Blocks base and rectify slackness if any.
4.19	Check the condition & lubrication of Plummer Block bearings & lubricate if required.
4.20	Check the tightness of fasteners of the upper halves of the Plummer block mountings.
4.21	**Every Alternate PPM: (ONCE IN A YEAR)** a) All Plummer blocks halves are to be opened, inspected for bearing condition, replacement of seals/lubricant and fitted back. b) All the gear couplings are to be removed. Inspected for wear & tear, rectified, refitted back, replace if necessary.
5.0	**BRAKE UNITS : (L.T. MAIN) & (L.T. MICRO)**
5.1	Check the Brake shoe, connecting linkages shall be checked and readjusted if necessary.
5.2	Adjust for correct spring tension for proper braking condition.
5.3	Check the condition for brake lining, thickness, cleanliness and replace /clean as required.
5.4	Check for shoe clearance on either side of the brake drum and adjust and record the value
5.5	Check for proper tightness of nuts / lock nuts of the brake unit.
5.6	Check the bottom & top hinge pins for split pin on both sides
5.7	Check the linkages connections for proper size split pin provided or not
5.8	In case of ELECTROMAGNETIC BRAKES, Ensure that the plunger inside the core shall be at least 1/3 of the core depth for proper operation.
5.9	Check the brake coil guide assembly (E.M. Brake) for proper plunger operation.
5.10	In case of THRUSTOR BRAKES: Check the condition & level of the oil, top up, replace if required. Check for any leakages from gaskets, over flow, drain plugs, etc. rectify if any.
6.0	**DRIVE SYSTEM : (C.T. MAIN) and (C.T.MICRO)**
6.1	Check the tightness of fasteners for the motor base and rectify slackness if any.
6.2	Check the tightness of fasteners for the brake unit base and rectify slackness if any.
6.3	Check the tightness of fasteners for the Gear Box base and rectify if any.
6.4	Check the tightness of fasteners for shaft connecting the wheels and rectify the slackness if any.
6.5	Check the brake drum joints and rectify the defects
6.6	Check for the lubrication & condition of the coupling.
6.7	Check the tightness of the key & fasteners for the coupling.
6.8	Check the tightness of fasteners of the upper halves of the gear box.
6.9	Check the tightness of fasteners on both sides cover plates of the Gear box.
6.10	Check for breather hole continuity.

6.11	Check the condition & level of the oil.
6.12	Check for any leakage of oil through Gasket/oil seal etc.,
6.13	Observe the Gear box noise level and record.
6.14	General condition of the drive system.
6.15	Check the tightness of fasteners for Plummer blocks base and rectify slackness if any.
6.16	Check the condition & lubrication of Plummer block bearings.
6.17	Check the tightness of fasteners of the upper halves of the Plummer block mountings.
6.18	**Every Alternate PPM: (ONCE IN A YEAR)** a) All Plummer blocks halves are to be opened, inspected for bearing condition, replacement of seals/lubricant and fitted back. b) All the gear couplings are to be removed. Inspected for wear & tear, rectified, refitted back, replace if necessary.
7.0	**BRAKE UNITS: (C.T. MAIN) and (C.T.MICRO)**
7.1	Brake shoe, connecting linkages shall be checked and readjusted if necessary.
7.2	Adjust for correct spring tension for proper braking condition.
7.3	Check the condition for brake lining, thickness, cleanliness and replace /clean as required.
7.4	Check for shoe clearance on either side of the brake drum and adjust and record the values.
7.5	Check for proper tightness of nuts/ lock nuts of the brakeUnit
7.6	Check the bottom & top hinge pins for split pin on both sides
7.7	Check the linkages connections for proper size split pin provided or not
7.8	In case of ELECTROMAGNETIC BRAKES, Ensure that the plunger inside the core shall be at least1/3 of the core depth for proper operation
7.9	Check the brake coil guide assembly (E.M. Brake) for roper plunger operation.
7.10	In case of THRUSTOR BRAKES: Check the condition & level of the oil, top up, replace if required. Check for any leakages from gaskets, over flow, drains plugs,etc. rectify if any.
8.0	**DRIVE SYSTEM: (HOIST- MAIN) and (HOIST MICRO)**
8.1	Check the tightness of fasteners for the motor base and rectify slackness if any.
8.2	Check the tightness of fasteners for Brake unit base and rectify slackness if any.
8.3	Check the tightness of fasteners for the Gear box base and rectify the slackness if any.
8.4	Check the brake drum joints and rectify the slackness if any.
8.5	Check the coupling condition. & lubrication
8.6	Check the tightness of fasteners of the Gear coupling. Joint.
8.7	Check the tightness of fasteners of the upper halves of the Gear box.
8.8	Alignment shall be checked and realigned if required.
8.9	Check the tightness of fasteners on both sides cover plates of the Gear

	box.
8.10	Check for breather hole continuity.
8.11	Check the condition of the oil.& level
8.12	Check for any leakage of oil through Gasket/Oil seal etc.,
8.13	Observe the Gear box noise level and record.
8.14	General condition of the drive system.
8.15	**Every Alternate PPM: (ONCE IN A YEAR)** a) All Plummer blocks halves are to be opened, inspected for bearing condition, replacement of seals/lubricant and fitted back. b) All the gear couplings are to be removed,Inspected for wear & tear, rectified, refitted back, replace if necessary.
9.0	**BRAKE UNITS : (HOIST – MAIN) and (HOIST - MICRO)**
9.1	Brake shoe, connecting linkages shall be checked and readjusted if necessary.
9.2	Adjust for correct spring tension for proper braking condition.
9.3	Check the condition for brake lining.
9.4	Check for shoe clearance on either side of the brake drum and record the values.
9.5	Check for proper tightness of nuts / lock nuts of the brake unit.
9.6	Check the bottom & top hinge pins for split pin on both sides
9.7	Check the linkages connections for proper size split pin provided or not
9.8	In case of ELECTROMAGNETIC BRAKES, Ensure that the plunger inside the core shall be at least 1/3 of the core depth for proper operation.
9.9	Check the brake coil guide assembly (E.M. Brake) for proper plunger operation.
9.10	In case of THRUSTOR BRAKES: Check the condition & level of the oil, top up, replace if required. Check for any leakages from gaskets, over flow, drains plugs,etc. rectify if any.
10.0	**HOOKS**
10.1	Check the free rotation of hook & Lubricate
10.2	Check the free movement of snatch block.
10.3	Check the safety latch function.
10.4	Check & Replace the bearings if required.
11.0	**ROPE DRUM:-**
11.1	Check for tightness of all fasteners connecting the end flanges after proper butting.
11.2	Check whether the ropes are in the grooves.
11.3	Check for excessive wear of the rope drum ridges.
11.4	Check the tightness of fasteners of end fixity rope attachments.
11.5	Check for any over lapping (*OVER LAPPING NOT ALLOWED).*
12.0	**WIRE ROPE; -**
12.1	Check for any damage for wire rope in one rope lay if six randomly distributed between wires.
12.2	Measure the wire rope diameter and check for wire rope reduction if the individual outside wires with wear of 1/3 of the original diameter.

12.3	Replace the wire rope in case of severe kinks, crushing, bird caging or distortion.
12.4	Replace the wire rope if the reduction of nominal diameter more than: - a) 1.0 mm for diameter of rope up to 19 mm. b) 1.5 mm for diameter of rope 22-28 mm. c) 2.0 mm for diameter of rope 32-38mm.
12.5	When ropes are replaced or hooks repaired a proof load test of the hook or rope shall be required before or use.
13.0	**PULLEYS/SHEAVES;**
13.1	Visual inspection of Pulleys/Sheaves:Check guards and guides are fixed or not.
13.2	Check for free rotation of pulleys/sheave.
13.3	Check the free rotation of pulleys / sheaves.
13.4	Check the freeness of equalizer pulley.
14.0	**ELECTRICAL:**
14.1	**MAIN PANEL:-**
14.2	Check condition/rating of HRC fuse. If fused/wired change with new HRC fuse.
14.3	Check the Main contactor contacts condition. If pitting/damaged replace with new ones.
14.4	Check the Aux. Contactor contacts condition. If pitting/damaged replace with new ones.
14.5	Check control relay for its function and contacts condition.
14.6	Check control transformer input/output and record.
14.7	Check control transformer of Lighting input/output and record.
14.8	Check control fuses condition/rating if fused/wired replace with new HRC fuse.
14.9	Check the condition and setting of overload relays if any.
14.10	Check general cleanliness of panel if carbonized clean and if required paint the internal.
15.0	**MAIN HOIST PANEL: (MAIN) and (MICRO)**
15.1	Check condition/rating of HRC fuse .If fused/wired change with new HRC fuse
15.2	Check the Main contactor contacts condition. If pitting/damaged replace with new ones.
15.3	Check the Aux. Contactor contacts condition. If pitting/damaged replace with new ones.
15.4	Check control relay for its function and contacts condition.
15.5	Check control transformer input/output and record.
15.6	Check control fuses condition/rating of fused/wired replace with new HRC fuse.
15.7	Check the condition and setting overload relays if any.
15.8	Check the tightness of stud connections in FLP panels.
15.9	Check the general cleanliness of the panel, if carbonized clean if required paint theinternal.
16.0	**LONG TRAVEL PANEL: (MAIN) and (MICRO)**
16.1	Check condition/rating of HRC fuse. If fused/wired change with new HRC fuse.

16.2	Check the Main contactor contacts condition. If pitting/damaged replace with new ones.
16.3	Check the Aux. Contactor contacts condition. If pitting/damaged replace with new ones.
16.4	Check control relay for its function and contacts condition.
16.5	Check control transformer input/output and record.
16.6	Check control fuses condition/rating of fused/wired replace with new HRC fuse.
16.7	Check the condition and setting overload relays if any.
16.8	Check the tightness of stud connections in FLP panels and availability of all fasteners.
16.9	Check the general cleanse of the panel, if carbonized clean if required paint the internal.
17.0	**CROSS TRAVEL PANEL: (MAIN) and (MICRO)**
17.1	Check condition/rating of HRC fuse .If fused/wired change with new HRC fuse.
17.2	Check the Main contactor contacts condition. If pitting/damaged replace with new ones.
17.3	Check the Aux. Contactor contacts condition. If pitting/damaged replace with new ones. Check control relay for its function and contacts condition.
17.4	Check the condition and setting overload relays, if any
17.5	Check the tightness of stud connections in FLP panels and availability of fasteners.
17.6	Check the general cleanliness of the panel, if carbonized clean if required paint the internal.
17.7	Check the tightness of stud connections in FLP panels and availability of fasteners.
17.8	Check the general cleanliness of the panel, if carbonized clean if required paint the internal.
17.9	Check control transformer input/output and record.
17.10	Check control fuses condition/rating of fused/wired replace with new HRC fuse.
18.0	**LIMIT SWITCHES: -**
	Check the condition of the limit switches. Clean and tighten the terminations of the following • Main hoist gravity switch • Main hoist rotary switch • Long travel limit switches TO and FROW • Cross travel limit switches left & right
19.0	**BRAKES: -**
	Check the insulation resistance of the following brake units and record; check the tightness of terminations • Main Hoist Normal speed brake • Micro speed brake • Holding brake

	• 2.Long travel Normal speed brake • Micro speed brake • Holding brake • Cross travel Normal brake • Micro speed brake • Holding brake
20.0	**INSULATION RESISTANCE (In Mega ohms) :-**
	Check the insulation resistance values of the following motors and record. Check the tightness of the terminations, after connections. • Main hoist Main motor • Micro motor • Long travel Main motor • Micro motor • Cross travel Main motor • Micro motor
21.0	**PENDENT: -**
21.1	Check the condition of the push buttons in the pendent. If necessary, clean the contacts / if required replace.
21.2	Operate and ascertain the operation of respective motions.
21.3	Check pendent suspension wire rope / chain and binding with the pendent cable,
21.4	Check the free movement of the pendent with cable trolleys.
21.5	Check the operation of the key replace if required.
21.6	Check the indication lamp working condition, replace if required.
22.0	**EARTHING :-**
22.1	Check the crane Earthing
22.2	Check the L T rail Earthing
22.3	Check the crane Earthing
23.0	**JUNCTION BOXES :-**
23.1	Check the condition of the junction box and tightness of terminations.
23.2	Check the tightness of fasteners and availability.
23.3	Check the incoming and outgoing cable glands and terminations in the junction box.
L.0	**LOAD TESTING (ONCE IN A YEAR)**
L.1	After carrying out preventive maintenance, once in a year, the load test of crane to its rated SWL has to be carried out by engaging required man power.
L.2	The currents of all the motors and brakes as well as the speeds and brake slip of LT, CT and Hoist motions are to be measured and recorded in the prescribed format with no load and full load condition. Necessary rectification works are to be carried out for meeting the acceptable limits.
L.3	Any test which is to be repeated as per instruction of the Engineer-in-charge shall be carried out by the service provider at no extra cost.

L.4	Coordination to mobilize dead weights for load testing from facility to facility will be at service provider scope. The department will supply the dead weights required for the load testing and vehicle for transporting dead weights from facility to facility.
L.5	The minimum tools and accessories required to carry out the load test as given in the following list have to be brought by the service provider for each work center. a. Measuring tape, 50 meters b. Plumb-bob c. Piano wire d. Steel rule, 1 meter e. Stop watch f. Try Square g. Multi meter h. Tong tester for current measurements i. Meggar etc.
L.6	All the instruments used should have been calibrated before use and the certificate to this effect should be shown to the Engineer-in-charge, if demanded. If the Engineer-in-charge demands re-calibration of any item, it has to be carried out immediately.
L.7	The service provider shall follow the procedure laid down by SDSC SHAR Engineer-in-charge to carry out the load test.
L.8	The deflection measurements shall also be carried out and recorded.
L.9	Party has to prepare load test parameters in a check list & certificate and submit to department for approval.

Note: The above check list is indicative and generic for all cranes; Detailed and crane specific check lists will have to be followed after award of Contract

ANNEXURE – B

CRANES OF WORK CENTRE – A (VALF)

Sl no	Crane Code	Facility	Capacity / SWL in tones	Type	Height of Lift (m)	SPAN (m)	Bay length (m)
1	MST-1	FLP / MST	60/15	EOT(F)	63	12	14.5
2	MST-2	FLP / MST @	5	EOT(F)	58	12	10
3	SPB-1	FLP / SPB	25	EOT	18	21	30
4	SPB-2	FLP / SPB	25	EOT	14	20	50
5	L-40 (new)	FLP / L-40	30	EOT	12	19	50
6	PSOM-XL	FLP / PSOM-XL	30	EOT	14	19	60
7	L-110-SF	FLP / L-110	30	EOT	16	19	50
8	SSPF-1	FLP / SSPF	15	EOT(F)	22	16	30
9	SSPF-2	FLP / SSPF	5	EOT(F)	10	6	6
10	SSPF–3	FLP / SSPF @	7.5	EOT(F)	10	12	12
11	HSF	FLP / HSF	15	EOT	10	16	20
12	TC-1	FLP / TCX	15	EOT	13	16	30
13	TC-2	FLP / TCX	5	EH	8	-	17
14	CSF	FLP / CSF	10	EOT	13	18	44
15	SMPF	FLP / SMPF	60 / 15	EOT(F)	15	16	30
16	USPF	FLP / USPF @	25	EOT(F)	15	16	30
17	TC-2A	FLP / TCX-2A @	25	EOT	18	18	40
18	TC-2B	FLP / TCX-2B @	10	EOT	11	10	18
19	FHSB	FLP / TCX @	20	EOT	9	19	44
20	SB-1	FLP / MAHAN	3	HOT	5	10	15
21	GLR	FLP / LSSF	3	HOT	5	11	20
22	CB-1	FLP / LSSF	3	HOT	5	10	20
23	CGSF	FLP / LSSF	10	EOT	8	14	40
24	CGSS-1	FLP / LSSF	7.5	HOT	5	11	30
25	CGSS-2	FLP / LSSF	3	HOT	8	6	14
26	SAU	FLP / LSSF	7.5	EOT	8	15	40
27	LCC-1	RO	7.5	EOT	10	6	6
28	LCC-2	RO	3	EOT	10	6	6
29	LCC-3	RO	5	EOT	10	15	20
30	LCC-4	RO @	5	EOT(F)	15	16	30
31	SP-1A –ULR	RO @	20	EOT	15	12	21
32	SP-1A-MAT	RO @	15	EOT	15	10	21
33	SP-1A-CR	RO @	15	EOT	15	15	21
34	MSS-1	ASLV	15/3	EOT	30	6	18
35	VIB-1	ASLV	16	EOT(F)	10	20	40
36	VIB-2	ASLV	16	EOT(F)	10	14	40
37	SSAB	SLP / SSAB @	400 /60	EOT	44	32	44
38	SVAB	SLP/SVAB	450/60T	EOT	82	37.5	68
39	VAB - 1	SLP / VAB @	10	EOT(F)	12	20	33
40	VAB - 2	SLP / VAB @	200 /30	EOT(F)	72	25	33
41	UT-TC	SLP / UT	10t	EOT(F)	72	20	-
42	SPF-2A	SLP / SPF @	30	EOT(F)	22	15	16
43	SPF-2B	SLP / SPF @	20	EOT(F)	11	18	20
44	SPF-2C	SLP / SPF @	20	EOT(F)	22	19	36
45	SPF-2D	SLP / SPF @	30	EOT	22	19	36
46	DCP	SLP / DCP	20	EOT(F)	70	6	-
47	CGSS- 3	SLP / LSSF	12.5	EOT	8	13	74
48	CGSS- 4	SLP / LSSF	7.5	HOT	5	10	21
49	GRLP	SLP/LSSF	3	HOT	-	-	-
50	GRLC	SLP/LSSF	3	HOT	-	-	-
51	SRC-1	SRF	7.5	EOT(F)	6	10	20
52	SRC-2	SRF	3	HOT	5	10	10

Sl no	Crane Code	Facility	Capacity / SWL in tones	Type	Height of Lift (m)	SPAN (m)	Bay length (m)
53	CTF	SRF / LSSF	15	EOT	5	14	35
54	W/S	VALF / Work Shop	3	EOT	4	10	40
55	6C-1	STEX / Test Bed	175/50	EOT	28	20	120
56	6C-2	STEX/ Test Bed @	5	EOT(F)	6	17	53
57	6B	SMP&ETF/Test Bed	1	EH(F)	5	-	30
58	PSPF	STEX / PSPF	60/20	EOT	18	15	22
59	PSAB	STEX/PSAB	35	EOT	18	20	31
60	VTF-1	SMP&ETF/ Bld-4	10 / 2	EOT(F)	9	10	34
61	VTF-2	SMP&ETF /Bld-4	3	EH	15	-	25
62	PPTF	SMP&ETF/Bld-5	3	EH	9	8	15
63	THTF-1	SMP&ETF/Bld-8	10	EOT	4	10	-
64	THTF-2	SMP&ETF/ 2G	5	EH	5	10	15
65	2A (Old)	STEX / 2A	5	EOT	4	10	15
66	2A-1(Old)	STEX / 2A	15	EOT	10	9	20
67	New 2A-1	STEX / 2A	15	EOT	15	9	10
68	New 2A-2	STEX / 2A	10	EOT	9	9	30
69	SHSB	SMP&ETF	30	EOT	16	19	50
70	HAT-1	SMP&ETF / HAT	7.5	EH	8	12	30
71	HAT-2	SMP&ETF / HAT	7.5	HOT	8	12	30
72	HAT-3	SMP&ETF / HAT	3	HOT	5	7	10
73	AATF-1	SMP&ETF / ATF	3	HOT	5	5	-
74	AATF-2	SMP&ETF / ATF	3	HOT	5	5	-
75	AMPF-1	SMP&ETF/AB @	0.5	EOT(F)	4	5	6
76	AMPF-2	SMP&ETF/AB @	0.5	EOT(F)	4	5	6
77	AMPF-3	SMP&ETF/DAB@	0.5	EOT(F)	2	5	9
78	AMPF-4	SMP&ETF/DAB@	0.5	EOT(F)	4	5	7
79	CALB-1	SMP&ETF / Bld-1	3	HOT	13	12	15
80	CALB-2	SMP&ETF / 2D	3	HOT	13	12	5
81	HSAB	SLP/SPF	15T	EOT	15	20	15
82	BHSB-1	SMAO	35	EOT	15	19	100
83	BHSB-2	SMAO	15	EOT	15	19	100
84	2CR	SMAO	35	EOT	17	13	25
85	AMTF	SMPETF	1	EOT	5	10	12
86	PIF-1	FLP	125/30	EOT	53	6	20
87	PIF-2	FLP	10	EOT	13	2	14

ANNEXURE - B

CRANES OF WORK CENTRE - B (SMPC1)

Sl no.	Crane Code No.	Facility	Capacity / SWL in tones	Type	Height of Lift (m)	Span (m)	Bay length (m)
1	08/114/01	CURING COMPLEX	30	EOT(F)	15	15	22
2	08/114/02	CURING COMPLEX	1/0.5	EOT(F)	5	5	6
3	08/115/01	CASTING STORES	7.5	EOT	8	12	21
4	08/116/01	CAST CURE	60/15	EOT (F)	10	15	28
5	08/117/01	CAST CURE @	60/15	EOT(F)	10	15	28
6	08/120/01	AL.PROCESSING	1	EOT(F)	6	7.5	8
7	08/122/01	AGNI HARDWARE PREPARATION	0.5	EOT	4	4	5
8	08/125/01	R.V.D.2	3	EOT (F)	8	8	8
9	08/128/01	AUTOCLAVE BAY	15	EOT	8	20	35
10	08/128/02	SAND BLAST BAY @	15	EOT	8	20	35
11	08/128/03	VTM BAY	20	EOT (F)	9	20	35
12	08/130/01	CLEANING BAY	7.5	EOT(F)	5	6	32
13	08/130/02	CLEANING BAY	10	EOT (F)	8	10	18
14	08/130/03	NEW BOWL CLEANING BAY	20	EOT	7.25	11.1	30.2
15	08/132/01	V.MIXER 2 – MR	20	EOT(F)	9	8	14
16	08/132/02	V.MIXER 2 - FR	3.5	EOT(F)	5.5	6	14
17	08/133/01	WORKSHOP	10	EOT	5.6	21	27
18	08/135/01	V.MIXER 1 - MR	15	EOT(F)	10	8	10
19	08/135/02	V.MIXER 1 - FR	3.5	EOT(F)	11	8	10
20	08/136/01	AP BIN STORAGE BAY	3	EOT (F)	6	8	10
21	08/138/01	H BORING FACILITY	20	EOT(F)	8	12	10
22	08/139/01	INHIBITION FACILITY	50/10	EOT(F)	7	15	20
23	08/140/01	PROPELLANT MACHINING	50	EOT(F)	10	18	22
24	08/142/01	CASTING/ JET CUTTING	30	EOT(F)	15	20	50
25	08/142/02	AGNI DECORING	0.5	EOT(F)	6	10	12
26	08/145/01	N.D.T. - 9 Mev @	50	EOT(F)	8	17	24
27	08/145/02	N.D.T - 15 Mev	50	EOT(F)	10	19	24
28	08/151/01	MAGAZINE - 1	20	EOT(F)	7	12	30
29	08/152/01	MAGAZINE - 2	50/10	EOT(F)	10	15	30
30	08/160/01	BOWL STORAGE	12	EOT(F)	7	11	40
31	08/161/01	V.MIXER.3 – MR	20	EOT(F)	8	9	14
32	08/161/02	V.MIXER 3 - FR	3	EOT(F)	12	7	19
33	08/162/01	MAGAZINE XL STORAGE BAY - 3	25	EOT (F)	10	18	45
34	08/162/02	MAGAZINE XL HARDWARE BAY - 3	2	EOT	4	8	19
35	08/164/01	MAGAZINE - 4	50/10	EOT	10	16	42
36	08/165/01	NEW AGNI CARTON FACILITY	0.5	EOT	7	8	15
37	08/166/01	AGO Facility	60/15	EOT	10	16	42
38	08/167/01	AL Powder Storage	1	EOT	4.5	9.9	28.7
39	08/168/01	AP BIN STORAGE	3	EOT	5.6	10	27.5
40	08/169/01	VMIXER-4 - MR	20	EOT	7.25	11.2	14
41	08/169/01	VMIXER-4 - FR	3.5	EOT	12.25	13.9	12
42	08/171/01	V MIXER-5 – MR @	30	EOT	9	10.1	19.3
43	08/171/2	V MIXER-5 - FR	7.5	EOT	17	8.4	18.5
44	08/174/01	NEW MAGAZINE -5@	50/10	EOT	10	16	51
45	08/113/01	AP Storage facility	1	PH	5	10	25

Sl no.	Crane Code No.	Facility	Capacity / SWL in tones	Type	Height of Lift (m)	Span (m)	Bay length (m)
46	08/118/01	S.MIXER1	0.5	P.H	5	6	6
47	08/118/02	S.MIXER 2	0.5	P.H	5	6	6
48	08/120/02	AL.PROCESS EXTN	1.5	P.H	7	8	Fixed Beam
49	08/120/03	HTPB	1	P.H	7	8	8
50	08/122/02	S.MIXER 1	1	P.H	5	6	6
51	08/122/03	S.MIXER 2	1	P.H	5	6	6
52	08/122/04	NEW MIXER	2	P.H	5	6	6
53	08/129/02	AP DRUM LIFT	1	P.H	7	8	Fixed Beam
54	08/125/03	RVD 1	1.5	P.H	7	8	21
55	08/125/04	RVD- 1, Drum lift	3	P.H	7	8	21
56	08/126/01	GRIDDING – AP BAY	1.5	P.H	7	8	Fixed Beam
57	08/126/02	PULSAIR BAY	1	P.H	7	8	Fixed Beam
58	08/127/01	AMBILINK ROOM	1	P.H	7	8	Fixed Beam
59	08/129/01	AL. STORAGE	2	P.H	6	8	10
60	08/130/03	PLUNGER CLEANING	0.5/1	P.H	5	6	Fixed Beam
61	08/142/03	3 M CHAMBER	2	P.H	5	10	12
62	08/142/04	AGNI GRAIN CASTING BAY	0.5	P.H	4	5	8
63	NC- 01	AUTO CLAVE FACILITY @	15	EOT	10	10	24
64	NC-02	VFM-II @	60	EOT	10	17	32
65	NC-03	AP DRYING FACILITY	7.5	EOT	11	11	18
66	NC-04	V M –VI,MR @	30	EOT	10	10	20
67	NC-05	V M–VI,FR @	7.5	EOT	18	10	22
68	NC-06	HTPB	2	EOT	8	11	16
69	NC-08	AMBLINK	1	EOT	8	8	12
70	NC-09	TDI PROCESS FACILITY	1	EOT	3	7	8
71	NC-10	AL BIN STORAGE	1.5	PH	10	10	8
72	NC-11	APGD	1.5	EOT	10	10	8
73	NC-12	SHAR MRS DG ROOM-1	10t	HOT	5	13.5	24
74	NC-13	SHAR MRS DG ROOM-2	10t	HOT	5	13.5	24
75	NC-01	CASTING FACILITY	75/25t	EOT	27	19	55
76	NC-02	ASSEMBLY & DECORING FACILITY	75/25t	EOT	14.25	19	41.5
77	NC-03	ABOVE GROUND OVEN FACILITY	75/25t	EOT	14	11	26.5
78	NC-04	PROPELLANT/ INHIBITION MACHINING FACILITY	60t	EOT	10	17	31
79	NC-05	INHIBITION & TILTING FACILITY	60/10t	EOT	10.5	17	38
80	NC-06	INHIBITION FACILITY	60/10t	EOT	10.5	14	30
81	NC-07	NDT FACILITY	60t	EOT	9.2	20.25	`27
82	NC-08	CASTING FACILITY	25T	EOT	14	19	55
83	NC-09	ASSEMBLY & DECORING FACILITY	25t	EOT	19	9.1	62
84	NC-10	4.5T MIXER FACILITY	30t	EOT	10.6	10.1	19.5
85	NC-11	BOWL CLEANING FACILITY	20t	EOT	8.5	13.3	45
86	NC-12	PREMIX STORAGE FACILITY	20t	EOT	8.5	13.3	30
87	NC-13	2.5T MIXER FACILITY	20t	EOT	7.4	11.2	19.5
88	NC-14	INSULATION MACHINING FACILITY	30t	EOT	12	18.1	38
89	NC-15	HARDWARE PREPARATION FACILITY HIGH BAY - I	25t	EOT	10.5	21.3	63

Sl no.	Crane Code No.	Facility	Capacity / SWL in tones	Type	Height of Lift (m)	Span (m)	Bay length (m)
90	NC-16	HARDWARE PREPARATION FACILITY HIGH BAY - II	25t	EOT	10.5	15.3	38
91	NC-17	AP STORAGE FACILITY	2t	EOT	5	19.4	51.5
92	NC-18	AP BIN STORAGE FACILITY	7.5t	EOT	8	14.4	30.5
93	NC-19	AP GRINDING & COLLECTION FACILITY	1.5t	EOT	5	4.9	8
94	NC-20	AP GRINDING & FEEDER FACILITY	1.5t	EOT	7.4	7.4	10.5
95	NC-21	AP DRYING FACILITY	7.5t	EOT	9.5	11.4	17.5
96	NC-22	AL. POWDER PROCESSING FACILITY	3t	EOT	8.5	`11.9	16.5
97	NC-23	BIN STORAGE FACILITY FOR HTPB/DOA & AL POWDER	3t	EOT	7	13.4	30
98	NC-24	AGNI CARTON OVEN FACILITY	2t	EOT	4.5	8.4	14.5
99	NC-25	4.5T MIXER FACILITY FEEDER ROOM	7.5t	EOT	18	10.3	21.6
100	NC-26	2.5T MIXER FACILITY FEEDER ROOM	3.5t	EOT	12	13.9	12
101	NC-27	TDI PROCESS & BIN STORAGE FACILITY	1t	EOT	4	5.4	12
102	NC-28	MINOR INGREDIENTS PROCESSING FACILITY	1t	EOT	7	7.4	10
103	NC-29	NDT FACILITY	1t	HOT	4.5	9.4	11
104	NC-30	CASTING SERVICE ROOM	2t	HOT	4.7	9.7	21.7
105	NC-31	CASTING LOW BAY	2t	HOT	4.7	8.150	20
106	NC-32	SHAR MRS FACILITY	10t	HOT	5.0	13.5	24
107	NC-33	AGNI DECORING FACILITY	2t	PH	4.5	3.95	12
108	NC-34	IR PREPARATION FACILITY	1t	EOT	5.5	5.4	12

Note: 1. (F) indicated in the bracket next to type of cranes indicate Flameproof crane

2. @ indicated next to facility of cranes indicate VVVF drive crane

PRICE BID - TABLE -1 **ANNEXURE-C**

1. COST BREAK-UP FOR MAINTENANCE OF CRANES for Work Centre – A (VALF)

(To be filled and uploaded along with Part II-Price bid)

Sl no	Crane Code	Capacity / SWL in tones	Charges for one PPM Rs	Total For 2 Nos of PPM Rs	Load test (Once in a year)
1	MST-1	60/15			
2	MST-2	5			
3	SPB-1	25			
4	SPB-2	25			
5	L-40 (new)	30			
6	PSOM-XL	30			
7	L-110-SF	30			
8	SSPF-1	15			
9	SSPF-2	5			
10	SSPF–3	7.5			
11	HSF	15			
12	TC-1	15			
13	TC-2	5			
14	CSF	10			
15	SMPF	60 / 15			
16	USPF	25			
17	TC-2A	25			
18	TC-2B	10			
19	FHSB	20			
20	SB-1	3			
21	GLR	3			
22	CB-1	3			
23	CGSF	10			
24	CGSS-1	7.5			
25	CGSS-2	3			
26	SAU	7.5			
27	LCC-1	7.5			
28	LCC-2	3			
29	LCC-3	5			
30	LCC-4	5			
31	SP-1A –ULR	20			

Sl no	Crane Code	Capacity / SWL in tones	Charges for one PPM Rs	Total For 2 Nos of PPM Rs	Load test (Once in a year)
32	SP-1A-MAT	15			
33	SP-1A-CR	15			
34	MSS-1	15/3			
35	VIB-1	16			
36	VIB-2	16			
37	SSAB	400 /60			
38	SVAB	450/60T			
39	VAB - 1	10			
40	VAB - 2	200 /30			
41	UT-TC	10t			
42	SPF-2A	30			
43	SPF-2B	20			
44	SPF-2C	20			
45	SPF-2D	30			
46	DCP	20			
47	CGSS- 3	12.5			
48	CGSS- 4	7.5			
49	GRLP	3			
50	GRLC	3			
51	SRC-1	7.5			
52	SRC-2	3			
53	CTF	15			
54	W/S	3			
55	6C-1	175/50			
56	6C-2	5			
57	6B	1			
58	PSPF	60/20			
59	PSAB	35			
60	VTF-1	10 / 2			
61	VTF-2	3			
62	PPTF	3			
63	THTF-1	10			
64	THTF-2	5			

Sl no	Crane Code	Capacity / SWL in tones	Charges for one PPM Rs	Total For 2 Nos of PPM Rs	Load test (Once in a year)
65	2A (Old)	5			
66	2A-1(Old)	15			
67	New 2A-1	15			
68	New 2A-2	10			
69	SHSB	30			
70	HAT-1	7.5			
71	HAT-2	7.5			
72	HAT-3	3			
73	AATF-1	3			
74	AATF-2	3			
75	AMPF-1	0.5			
76	AMPF-2	0.5			
77	AMPF-3	0.5			
78	AMPF-4	0.5			
79	CALB-1	3			
80	CALB-2	3			
81	HSAB	15T			
82	BHSB-1	35			
83	BHSB-2	15			
84	2CR	35			
85	AMTF	1			
86	PIF-1	125/30			
87	PIF-2	10			
		Total	-----		
GRAND TOTAL (FOR 2 Nos PPM PER YEAR AND ONE LOAD TEST PER YEAR CHARGES)					

PRICE BID - TABLE -2 **ANNEXURE -C**

2. COST BREAK-UP FOR MAINTENANCE OF CRANES FOR WORK CENTRE– B (SMPC1)

Sl no	Crane Code	Capacity / SWL in tones	Charges for one PPM Rs	Total For 2 Nos of PPM Rs	Load test (Once in a year)
1	CURING COMPLEX	30			
2	CURING COMPLEX	1/0.5			
3	CASTING STORES	7.5			
4	CAST CURE	60/15			
5	CAST CURE @	60/15			
6	AL.PROCESSING	1			
7	AGNI HARDWARE PREPARATION	0.5			
8	R.V.D.2	3			
9	AUTOCLAVE BAY	15			
10	SAND BLAST BAY @	15			
11	VTM BAY	20			
12	CLEANING BAY	7.5			
13	CLEANING BAY	10			
14	NEW BOWL CLEANING BAY	20			
15	V.MIXER 2 – MR	20			
16	V.MIXER 2 - FR	3.5			
17	WORKSHOP	10			
18	V.MIXER 1 - MR	15			
19	V.MIXER 1 - FR	3.5			
20	AP BIN STORAGE BAY	3			
21	H BORING FACILITY	20			
22	INHIBITION FACILITY	50/10			
23	PROPELLANT MACHINING	50			
24	CASTING/ JET CUTTING	30			
25	AGNI DECORING	0.5			
26	N.D.T. - 9 Mev @	50			
27	N.D.T - 15 Mev	50			
28	MAGAZINE - 1	20			
29	MAGAZINE - 2	50/10			
30	BOWL STORAGE	12			
31	V.MIXER.3 – MR	20			
32	V.MIXER 3 - FR	3			
33	MAGAZINE XL STORAGE BAY - 3	25			
34	MAGAZINE XL HARIDWARE BAY - 3	2			
35	MAGAZINE - 4	50/10			
36	NEW AGNI CARTON FACILITY	0.5			
37	AGO Facility	60/15			
38	AL Powder Storage	1			
39	AP BIN STORAGE	3			

Sl no	Crane Code	Capacity / SWL in tones	Charges for one PPM Rs	Total For 2 Nos of PPM Rs	Load test (Once in a year)
40	VMIXER-4 - MR	20			
41	VMIXER-4 - FR	3.5			
42	V MIXER-5 – MR @	30			
43	V MIXER-5 - FR	7.5			
44	NEW MAGAZINE -5@	50/10			
45	AP Storage facility	1			
46	S.MIXER1	0.5			
47	S.MIXER 2	0.5			
48	AL.PROCESS EXTN	1.5			
49	HTPB	1			
50	S.MIXER 1	1			
51	S.MIXER 2	1			
52	NEW MIXER	2			
53	AP DRUM LIFT	1			
54	RVD 1	1.5			
55	RVD- 1, Drum lift	3			
56	Gridding – AP Bay	1.5			
57	PULSAIR BAY	1			
58	AMBILINK ROOM	1			
59	AL. STORAGE	2			
60	PLUNGER CLEANING	0.5/1			
61	3 M CHAMBER	2			
62	AGNI GRAIN CASTING BAY	0.5			
63	AUTO CLAVE FACILITY @	15			
64	VFM-II @	60			
65	AP DRYING FACILITY	7.5			
66	V M –VI,MR @	30			
67	V M–VI,FR @	7.5			
68	HTPB	2			
69	AMBLINK	1			
70	TDI PROCESS FACILITY	1			
71	AL BIN STORAGE	1.5			
72	APGD	1.5			
73	SHAR MRS DG ROOM-1	10t			
74	SHAR MRS DG ROOM-2	10t			
75	CASTING FACILITY	75/25T			
76	ASSEMBLY & DECORING FACILITY	75/25T			
77	ABOVE GROUND OVEN FACILITY	75/25T			
78	PROPELLANT/ INHIBITION MACHINING FACILITY	60T			
79	INHIBITION & TILTING FACILITY	60/10T			
80	INHIBITION FACILITY	60/10T			

Sl no	Crane Code	Capacity / SWL in tones	Charges for one PPM Rs	Total For 2 Nos of PPM Rs	Load test (Once in a year)
81	NDT FACILITY	60T			
82	CASTING FACILITY	25T			
83	ASSEMBLY & DECORING FACILITY	25T			
84	4.5T MIXER FACILITY	30T			
85	BOWL CLEANING FACILITY	20T			
86	PREMIX STORAGE FACILITY	20T			
87	2.5T MIXER FACILITY	20T			
88	INSULATION MACHINING FACILITY	30T			
89	HARDWARE PREPARATION FACILITY HIGH BAY - I	25T			
90	HARDWARE PREPARATION FACILITY HIGH BAY - II	25T			
91	AP STORAGE FACILITY	2T			
92	AP BIN STORAGE FACILITY	7.5T			
93	AP GRINDING & COLLECTION FACILITY	1.5T			
94	AP GRINDING & FEEDER FACILITY	1.5T			
95	AP DRYING FACILITY	7.5T			
96	AL. POWDER PROCESSING FACILITY	3T			
97	BIN STORAGE FACILITY FOR HTPB/DOA & AL POWDER	3T			
98	AGNI CARTON OVEN FACILITY	2T			
99	4.5T MIXER FACILITY FEEDER ROOM	7.5T			
100	2.5T MIXER FACILITY FEEDER ROOM	3.5T			
101	TDI PROCESS & BIN STORAGE FACILITY	1T			
102	MINOR INGREDIENTS PROCESSING FACILITY	1T			
103	NDT FACILITY	1T			
104	CASTING SERVICE ROOM	2T			
105	CASTING LOW BAY	2T			
106	SHAR MRS FACILITY	10T			
107	AGNI DECORING FACILITY	2T			
108	IR PREPARATION FACILITY	1T			
		Total	-----		
		GRAND TOTAL (FOR 2 Nos PPM PER YEAR AND ONE LOAD TEST PER YEAR CHARGES)			

PRICE BID - TABLE – 3 ANNEXURE –C

A. Price break-up of Major works & other services (Refer condition No: 8.0 of terms & conditions) (NEED BASED ONLY)

Sl No	Category	Estimated Qty	Rate per hour	Total cost
A	**Major works services**			
1	Services for carrying out major works by engaging one maintenance team with Refer to:8.0:Major works of tender document	2500 Hrs.		
2	Services of providing Arc Welding with welding equipment and Welder (Welding electrodes will be supplied by Department)	500 Hrs.		
3	Services of Gas cutting/welding with cost of equipment, consumables and welder.	500 Hrs.		
4	Removing, Servicing, Fixing of Brake electro hydraulic thrusters from the crane.	200 Nos	Rate/No	
			Total Cost	

- The above quantity is for both Work centres and will be divided as required.
- **The above works will be consumed whenever need arises only.**

PRICE BID BREAK UP - TABLE- 4 - ANNEXURE –C

C. PRICE BID FORMAT FOR TOTAL MAINTENANCE COST - in Rupees

Sl No	Description	Cost per year	Taxes	Total
1	Maintenance charges of WORK CENTRE A (VALF) for **87** Nos of cranes (Total of Table 1 : Annexure –C)			
2	Maintenance charges of WORK CENTRE B (SMPC 1) for **108** of Nos cranes (Total of Table 2 : Annexure –C)			
3	Cost of service charges for Major works & other services (Total of Table 3 : Annexure- C)			
4	**Total maintenance Cost for one year Rs (These figures shall also to be uploaded in Main Price bid column online)**			

Note:

a) The table formats 1, 2, 3 & 4 given in Annexure - C shall be filled and uploaded along with price bid Part.

b) Unpriced bid format (without prices) for table 1, 2, 3 & 4 shall be uploaded along with Technical bid Part 1.

ANNEXURE-D

CONFIRMATION/COMPLIANCE STATEMENT

Sl. No	Description of terms and conditions	Compliance		Reasons for deviation
		Yes	No	If NO, explain the reason (if space is not sufficient separate sheet may be enclosed.
1.	**SCOPE OF WORK** Carrying out PPM, Load test and Break down maintenance as per the points 1.0 to 1.7 of tender document.			
2.	The period of contract shall be of **one year** as per point 2.0 of tender document.			
	Acceptance for contract for **2rd year with same terms & conditions and rates as per the point 2.0 of tender document.**			
3.	Place of work as per points 3.0 to 3.3 of tender document.			
4.	Skill set of maintenance personal shall be deployed as per points 4.0 to 4.7 of tender document.			
5.	Working hours to be followed as per points 5.0 to 5.3 of tender document.			
6.	List of cranes offered for maintenance as per point 6.1 of tender document.			
7.	Spares of EOT crane, rewinding, machining etc., shall be carried out as per points 7.1 to 7.4 of tender document.			
8.	Major works shall to be carried out as per point 8.0 of tender document.			
9.	Modification / Rectification works shall to be carried out as per point 8.B of tender document.			
10.	During critical operations/launch activities, the service provider shall provide manpower for Stand by duty as per point 8.C of tender document.			
11.	Additional PPM, AM and load testing will be carried out on request of Department as point 8.D & 10.8 of tender document.			
12.	Transportation & accommodation arrangements for the Service provider's staff and material as per the points 9.0 of tender document.			
13.	The service provider shall fulfill all the obligations required under workmen Compensation act as amended from time to time. The service provider shall ensure minimum wages as per the relevant act .			
14.	Insurance for staff against accidents as per the point 10.3 of tender document.			
15.	The Department will not accept any liability for the service provider as per the point 10.4 of tender document.			
16.	In case any equipment or property of the Dep. Is damaged by the service provider or his employees, the same shall be rectified at free			

Sl. No	Description of terms and conditions	Compliance		Reasons for deviation
		Yes	No	If NO, explain the reason (if space is not sufficient separate sheet may be enclosed.
	of cost as per point 18.0 of tender document.			
17.	The offer includes labour, tools, equipment, transportation etc. as per 10.7 of tender document.			
18.	Acceptance of addition of new cranes and deletion of cranes from the AMC as per point 10.8 of tender document.			
19.	Read and Accepted of tender documents General points from 10.1 to 10.20.			
20.	Acceptance of consumables supply as per point 11.0 of tender document.			
21.	Acceptance of entry regulations for the service provider and his staff as &As SDSC SHAR is a highly restricted and sensitive area, service mechanics planned for deputation shall have high integrity and shall be certified by the Service provider. (as per the point 12.0 of tender document)			
22.	Acceptance of security deposit terms as per the point 14.0 of tender document.			
23.	Acceptance Payments terms as per the points 7.4, 8.1 of tender document.			
24.	Acceptance penalty clause as per the points 20.1 to 18.0 of tender document.			
25.	Acceptance of the contract cancellation condition as per the point 19.0 of tender document.			
26.	**Conformation of submission of the documents required for Pre-qualification criteria:**			
27.	21.A Documents for 5 years' experience			
28.	21.B Submission of Turnover documents			
29.	21.C 50 cranes & 50 t capacity in AMC			
30.	21.D PO copies for the given value.			
31.	21.E -All supporting documents			
32.	Confirmation/compliance statement (Annexure – D has been filled and submitted along with techno-commercial part bid)			
33.	***The unpriced bid has been submitted in the enclosed table format (1,2,3 & 4) in Annexure-C. along with Technical bid.***			
34.	***The prices are filled and price bid has been submitted in the enclosed table format (1, 2, 3 & 4) in Annexure-C. and uploaded with Price bid.***			
35.	Acceptance of validity of the offer of 120 days from tender due date.			
36.	**Uploading of signed Tender document in Technical bid as a token of acceptance.**			
37.	***List of Deviations any from Tender specifications, Terms & conditions***			