

 <p>पी डी आई एल PDIL</p>	<p>UREA (Neem Oil Coated) HANDLING & BAGGING PACKAGE ON LSTK AND SINGLE POINT RESPONSIBILITY BASIS AT TALCHER FERTILIZERS LIMITED, ODISHA (INDIA)</p>	 <p>Talcher Fertilizers</p>
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Date: 10.12.2021

AMENDMENT-X to NIT No. : PNMM/PC-183/E-4010/NCB DATED 06.08.2021

**Sub.: UREA (Neem Oil Coated) HANDLING & BAGGING PACKAGE ON LSTK AND
SINGLE POINT RESPONSIBILITY BASIS AT TALCHER FERTILIZERS
LIMITED, ODISHA (INDIA)**

This is for information to all Bidders who are willing to participate in the subject NIT, that Amendment- X dated 10.12.2021 is being issued and shall be read in conjunction to the NIT and subsequent amendment issued till dated.

***All other terms and conditions of the NIT shall be as per original NIT and subsequent Amendment(s).**

For & on behalf of
Talcher Fertilizers Limited


(P R Sahu)

Addl. General Manager (M.M)
Projects & Development India Limited



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
1.	Section- IV (44 of 78)	232 of 1571 (NIT)	40.0	Arbitration	M	Refer clause no. 45 of Section-III of NIT To be read as Refer clause no. 44 & 45 of Section-III of NIT
2.	Section-V (15 of 53)	281 of 1571 (NIT)	1.2.8.9.3	Delivery/Time Schedule and Documents	M	In case of delay beyond the stipulated COMPLETION PERIOD, (except for reasons not attributable to OWNER, FORCE MAJEURE and suspension of WORK by OWNER), even though provisional extension of COMPLETION PERIOD time is allowed by OWNER, all extra costs on account of changes of statutory regulations/Acts or increase in price on any other account, shall not apply to CONTRACT PRICE and the same shall be borne by CONTRACTOR. To be read as In case of delay beyond the stipulated COMPLETION PERIOD, (except for reasons attributable to OWNER, FORCE MAJEURE and suspension of WORK by OWNER), even though provisional extension of COMPLETION PERIOD time is allowed by OWNER, all extra costs on account of changes of statutory regulations/Acts or increase in price on any other account, shall not apply to CONTRACT PRICE and the same shall be borne by CONTRACTOR.



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



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3.	Section VI/ 8.0 (sheet 2 of 4)	1488 of 1571 (NIT)	1.0 iv.	Performance Guarantee	M	<p>All the equipments shall be designed for minimum life of 25 years. The complete Urea Handling & bagging package shall be guaranteed for satisfactory operation while handling the specified capacity continuously for 24 hours per day, 7 days per week and 330 days per year to ensure trouble free performance</p> <p>To be read as</p> <p>All the equipments shall be designed for minimum life of 25 years. The complete Urea Handling & bagging package shall make sure for satisfactory operation while handling the specified capacity continuously for 24 hours per day, 7 days per week and 330 days per year to ensure trouble free performance</p>
4.	Section VI/ 8.0 (sheet 2 of 4)	1488 of 1571 (NIT)	1.0 v.	Performance Guarantee	D	<p>All equipment and component parts shall be guaranteed by the contractor/bidder against faulty design, effective material or poor workmanship for a period stipulated in the bid package.</p> <p>The entire clause stands deleted</p>
5.	Section VI/ 8.0 (sheet 2 of 4)	1488 of 1571 (NIT)	1.0 vii.	Performance Guarantee	M	<p>All the equipments of the complete Urea Handling & Bagging package including bagging system should be able to achieve 100% of the specified design capacities at a particular period and normally.-However, a margin of 5% should be kept over the specified design capacity while designing the equipment, for occasional over-loading. Contractor shall guarantee the capacity of the following equipment as enlisted:</p> <ul style="list-style-type: none">a) All Belt conveyorsb) Scraper systemc) Vibrating Screen & Delumper



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



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						<p>d) All Bagging machines e) Bucket Elevator f) All Wagon loading machines g) All Truck loading machines h) Empty Bag Handling System with Electric hoist i) All Dust Extraction System j) Neem oil separation system, etc.</p> <p>To be read as</p> <p>All the equipments of the complete Urea Handling & Bagging package including bagging system should be able to achieve 100% of the specified design capacities. Also, a margin of 5% should be kept over the specified design capacity while designing the equipment, for occasional over-loading.</p> <p>However, Contractor shall Perform PGTR as per following capacity of equipment as enlisted:</p> <p>a) Bulk urea handling belt conveyors ET-1 & ET-2 (Rated capacity- 161 TPH) b) Bulk urea handling belt conveyors ET-3 & ET-4 (Rated capacity- 180 TPH) c) Bulk urea handling belt conveyors ET-5 & ET-6 series (Rated capacity- 280 TPH) d) Each bag handling belt conveyors (Rated capacity- 1000 bags/hr. i.e 45 TPH) e) Scraper system (Rated capacity- 120 - 180 TPH) f) Vibrating Screen (Rated capacity- 180 TPH) g) Delumper (Rated capacity- 50 TPH)</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

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Amendment- X dated 10.12.2021



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						<p>h) Each Bagging machines (Rated capacity- 1000 bags/hr. i.e 45 TPH) i) Bucket Elevator (Rated capacity- 10 TPH) j) Each Wagon loading machines (Rated capacity- 1000 bags/hr. i.e 45 TPH) k) Each Truck loading machines (Rated capacity- 1000 bags/hr. i.e 45 TPH) l) Electric hoist for empty bag handling system (Rated capacity- 3 Te) m) Each Dust Extraction System (Emission level shall be less than 50 mg/Nm³ / applicable statutory norms)</p>
6.	Section VI/ 8.0 (sheet 3 of 4)	1489 of 1571 (NIT)	1.0 x.	Performance Guarantee	M	<p>Capacity shall be determined based on the electronic weigh scale readings duly calibrated prior to the PG test and no. of bags loaded/hr through counter installed on wagon loader/ truck loading machine. Measuring tolerance shall be as per the accuracy limit of the instrument.</p> <p>To be read as</p> <p>Capacity shall be determined based on the electronic weigh scale readings duly calibrated prior to the PG test and no. of bags loaded/hr through counter installed on wagon loader/ truck loading machine. Measuring tolerance shall be as per the accuracy limit of the instrument. For Dust Extraction system, emission level shall be measured by dust monitor/analyzer.</p>
7.	Section VI/ 8.0 (sheet 3 of 4)	1489 of 1571 (NIT)	1.0 xii.	Performance Guarantee	M	<p>If the system fails to achieve PG parameters, Contractor/bidder shall carry out necessary modification at his own cost till the rated/design capacity is achieved within a reasonable period not exceeding six (6) months from the date of failure of PG test and a second PG test shall be organized or as per Special Condition of Contract (SCC)</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



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						<p>To be read as</p> <p>If the system fails to achieve PGTR parameters, Contractor/bidder shall carry out necessary modification at his own cost till the rated/design capacity is achieved within a reasonable period not exceeding three (3) months from the date of failure of PGTR test and a second PGTR test shall be organized/demonstrated.</p>
8.	Section VI/ 8.0 (sheet 3 of 4)	1489 of 1571 (NIT)	1.0 xiv.	Performance Guarantee	M	<p><u>Utility (Power) Consumption:</u></p> <p>Power consumption shall be considered for calculation of guaranteed work cost. Contractor/Bidder to quote accordingly in the Price Bid. For equipments to be considered for guaranteed power consumptions refer to Clause No. 8 (xvii) of Material Handling Design Specification (Section VI-3.1.1)</p> <p>To be read as</p> <p><u>Utility (Power) Consumption:</u></p> <p>Power consumption shall be considered for calculation of guaranteed work cost. Contractor/Bidder to quote accordingly in the Price Bid. Flow path/ Equipments to be considered for guaranteed power consumptions are as follows :- Conveyor ET-1, ET-2, ET-3, ET-4, ET-5, ET-6a1, ET-6a2, ET-6b1, ET-6b2, Salt scraper, vibrating screen, delumper/crusher, Bagging m/c and stitching machine including slat/flat conveyor (6 nos.)- BM-2, BM-3, BM-4, BM-5, BM-6, BM-7, Bucket Elevator(BE), Conveyor ET-7a2, ET-7a3, ET-7a4, ET-7b2, ET-7b3, ET-7b4, ET-8a1 series, ET-8a2, ET-8b1 series, ET-8b2, ET-9a1, ET-9a2, ET-9b1, ET-9b2, ET-10a1, ET-10a2, ET-10a3, ET-10b1, ET-10b2, ET-10b3, Wagon Loaders (6 nos.)- WL-1, WL-2, WL-3, WL-4, WL-5, WL-6, De-dusting systems (Wet & dry type both) at all transfer towers & Bagging plant, Air compressor, Neem Oil removing/separating</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



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	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						system [refer to Clause No. 8 (xvii) of Material Handling Design Specification (Section VI- 3.1.1)]
9.	Section VI/ 8.0 (sheet 4 of 4)	1490 of 1571 (NIT)	1.0 xvii.	Performance Guarantee	M	Training Bidder / Contractor shall provide training to five (5) persons for seven (7) days for smooth operation of plant. Owner's manpower shall be able to develop a thorough understanding of the plants and the know-how and processes behind it, be in a position to take positive and corrective action to prevent any upset and breakdown conditions from occurring, and to optimize plants' operations, maintenance and organization. This clause to be shifted from Section VI- 8.0 (Performance and Guarantee) to Section VI- 2.0 (Scope of Work) as a clause no. v.
10.	Section VI/ 8.0 (sheet 4 of 4)	1490 of 1571 (NIT)	1.0 xviii.	Performance Guarantee	M	Bidder /Contractor shall provide two (2) months supervision assistance (minimum 2 persons) to this package for smooth and trouble free operation. This clause to be shifted from Section VI- 8.0 (Performance and Guarantee) to Section VI- 2.0 (Scope of Work) as a clause no. vi.
11.	Section VI/ 10.0 (sheet 2 of 71)	1496 of 1571 (NIT)	NIL (First Para)	Sub Vendor List	M	Contractor/Bidder shall select sub vendors from the vendor list as specified below. However, if, bidder is the manufacturer of any item, it shall be acceptable subject to furnishing of proven track record/credential by bidder for similar or comparable plant design capacity and approval of owner/consultant during detail engineering stage. Bidder shall ensure that sub vendor for the specified item has supplied item for the specified service & the supplied item is in satisfactory service since last 3 years as on date of offer



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



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	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						<p>To be read as</p> <p>Contractor/Bidder shall select sub vendors from the vendor list as specified below. However, if, bidder is the manufacturer of any item, it shall be acceptable subject to furnishing of proven track record/credential by bidder for similar or comparable plant design capacity and approval of owner/consultant during detail engineering stage. Bidder shall ensure that sub vendor for the specified item has supplied the item for the specified service & the supplied item is in satisfactory service during last 10 years as on date of offer.</p>
12.	Section VI/ 6.0 (sheet 3 of 33)	1440 of 1571 (NIT)	2.0	Spare Parts	M	<p>Contractor/Bidder shall provide the list of spare parts for first two years of operation of the equipment as recommended by OEM (Original Equipment Manufacturer) with recommended quantities and itemized prices covering the below listed spares. Proper coding and referencing of spare parts shall be done so that later identification with appropriate equipment is facilitated. Recommended spares and their quantities shall take into account related factors of equipment reliability, effect of equipment downtime upon production or safety, cost of parts and availability of vendor's service facilities around the proposed location of equipment.</p> <p>To be read as</p> <p>Contractor/Bidder to provide mandatory spares for two years operation as listed below. Proper coding and referencing of spare parts shall be done so that later identification with appropriate equipment is facilitated. Cost of Mandatory spares shall be included under LSTK price.</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



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	Part/Sec.	Page No.	Clause No.	Description as per NIT		
13.	Section VI/6.0 (sheet 31 of 33)	1468 of 1571 (NIT)	2.0 (Notes)	Spare Parts (Mandatory spares)	M	<p>Notes :-</p> <ol style="list-style-type: none">1. The above spares do not include installed spares / commissioning spares. The above shall be 2 years spares.2. Set means complete replacement of particular part in one machine/equipment/Reformer/Fired heater etc.3. Item wise price against each item shall be furnished.4. Wherever "Each Type" is specified, it means "of the Type/make/model/size/rating and exactly replaceable"5. Wherever "% qty." is specified, Contractor to quote in next higher rounded figure6. Out of % age spares and minimum qty specified against each item - higher of the two shall be supplied.7. Spares mentioned above to be offered as 2 years spares. However, if these spares are not used in the equipments being offered / supplied, the same need not be supplied. Bidder shall clearly indicate against each such spare that these spares / items are not used in their equipments.8. The above is owner's recommended list of spares. The supplier may add other items as per their recommendations.9. The quotation should contain sectional drawing showing location & part no. (For exact identification) & material specification.10. If any item is not mentioned above but supplied by the bidder. Bidder to consider 10% or minimum ONE for such items. <p>To be read as</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

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						<p>Notes :-</p> <ol style="list-style-type: none">1. The above spares do not include installed spares / commissioning spares. The above shall be 2 years spares / Mandatory spares.2. Set means complete replacement of particular part in one machine/equipment etc.3. Wherever "Each Type" is specified, it means "of the Type/make/model/size/rating and exactly replaceable"4. Wherever "% qty." is specified, Contractor to quote in next higher rounded figure5. Out of % age spares and minimum qty specified against each item - higher of the two shall be supplied.6. Spares mentioned above to be offered as 2 years spares. However, if these spares are not used in the equipments being offered / supplied, the same need not be supplied. Bidder shall clearly indicate against each such spare that these spares / items are not used in their equipments.7. Contractor/Bidder to provide sectional drawing showing location & part no. (For exact identification) & material specification during detail engineering.
14.	Section VI/ 6.0 (sheet 32 of 33)	1469 of 1571 (NIT)	3.0	Spare Parts (Recommended spares)	M	<p>Contractor shall submit list of recommended spare parts of specialised items not covered in mandatory spares, along with itemised price. Owner will review and decide the recommended spares required for the project.</p> <p>To be read as</p> <p>Contractor shall provide list of recommended spare parts of all the equipments as recommended by OEM (Original Equipment</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



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	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						Manufacturer) with recommended quantities not covered in mandatory spares along with itemized price. Cost of recommended spare parts shall be furnished separately & that shall not be part of LSTK price. Owner will review and decide the recommended spares required for the project. Recommended spares and their quantities shall take into account related factors of equipment reliability, effect of equipment downtime upon production or safety, cost of parts and availability of vendor's service facilities around the proposed location of equipment. Contractor to refer SCC clause no. 1.2.9.4 of section-V (page no. 282 of 1571)
15.	Section VI/ 6.0 (sheet 32 of 33)	1469 of 1571 (NIT)	3.0 (Notes)	Spare Parts (Recommended spares)	D	Notes :- 1. The above nos. of spares are minimum. 2. The word 'TYPE' means the Make, Model no., Type, Range, Size/ Length, Rating, Material as applicable. 3. Wherever % age is identified, Contractor shall supply next rounded figure. 4. The terminology used under 'Part Description' is the commonly used name of the part and may vary from manufacturer to manufacturer. 5. Mandatory spares shall be applicable for Electrical / Instrumentation items of sub packages also as per above mandatory spares philosophy. 6. Mandatory spares shall be procured along with the main equipment. These spares include only those spares, which are critical for equipment and require longer delivery periods. 7. The word 'Set' means the quantity required for full replacement of that part in one machine. 8. The Bidder shall quote for all the mandatory spares as defined above & as applicable to the proposed design of the equipment. In case, any spare which is listed above but not applicable due to specific construction/design of the equipment, the same shall be highlighted as 'Not Applicable' against that spare supported with proper technical explanation.



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

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Amendment- X dated 10.12.2021



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	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						<p>9. Spare parts shall be identical in all respects to the parts fitted on the main equipment, including dimensions, material of construction, testing & heat treatment.</p> <p>Mandatory spares as specified elsewhere in the engineering specifications for other items are also to be provided by the contractor before Commissioning of the plant.</p> <p>Stands deleted.</p>
16.	Section- VI PC183/E-4010/SEC VI/ 3.1.3 (sheet 3 of 18)	419 of 1571 (NIT)	1.1	Design Criteria	M	<p>This specification covers the requirements for the complete design (Mechanical), procurement, fabrication, construction/erection, insulation, painting, Pickling & Passivation (for SS equipments), inspection and testing of static equipment for urea handling & bagging package of M/s Talcher Fertilizer Ltd. (TFL) in accordance with this specification, standards specification, codes and other attachment etc. listed in bid document.</p> <p>To be read as</p> <p>This specification covers the requirements for the complete design (Mechanical), procurement, fabrication, construction/erection, insulation, painting, Pickling & Passivation (for SS equipments), inspection and testing of static equipment for urea handling & bagging package of M/s Talcher Fertiliser Ltd. (TFL) in accordance with this specification, standards specification, codes and other attachment etc. listed in NIT document.</p>
17.	Section- VI PC183/E-4010/SEC VI/ 3.1.3 (sheet 12 of 18)	428 of 1571 (NIT)	3.1.19	Storage Tanks	M	<p>Inside/outside painting of tanks shall be carried out based on product stored and as per Process data sheet enclosed elsewhere in bid package.</p> <p>To be read as</p> <p>Inside/outside painting of tanks shall be carried out based on product stored and as per Process data sheet enclosed elsewhere in NIT.</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

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18.	Section- VI PC183/E- 4010/SEC VI/ 3.1.3 (sheet 17 of 18)	433 of 1571 (NIT)	7	Painting	M	All CS external surfaces of shop fabricated equipment shall be primer and final painted as defined elsewhere Listed in bid document. To be read as All CS external surfaces of shop fabricated equipment shall be primer and final painted as defined elsewhere Listed in NIT document.
19.	Section- VI PC183/E- 4010/SEC VI/ 3.1.3 (sheet 17 of 18)	433 of 1571 (NIT)	8	Insulation	M	The equipment shall be insulated as defined elsewhere Listed in bid document To be read as The equipment shall be insulated as defined elsewhere Listed in NIT document
20.	Section- VI PC183/E- 4010/SEC VI/ 3.1.3 (sheet 17 of 18)	433 of 1571 (NIT)	9.2	SPARES FOR 2 YEARS OPERATION	M	2 years operation spares shall be supplied by the contractor as per Section-6 of Bid To be read as 2 years operation spares ((Mandatory Spares) shall be supplied by the LSTK contractor as per Section-VI-6.0 of NIT.
21.	Section- VI PC183/E- 4010/SEC VI/ 3.1.3 (sheet 17 of 18)	433 of 1571 (NIT)	10.0	Documentation	M	Documents shall be submitted as per "Documentation schedule" in Section-5 of Bid. To be read as Documents shall be submitted as per "Documentation schedule" in Section-VI—5.0 of NIT.



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



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22.	Section- VI PC183/E-4010/SEC VI/ 3.1.3(SOW) (sheet 1 of 3)	436 of 1571 (NIT)	1.0	Scope of work	M	<p>1.0 Scope</p> <p>This specification covers the requirements for the complete design (Mechanical), procurement, fabrication, construction/erection, insulation, painting, Pickling & Passivation (for SS equipments), inspection and testing of static equipment for urea handling & bagging package of M/s Talcher Fertiliser Ltd. (TFL) in accordance with this specification, standards specification, codes and other attachment etc. listed in bid document..</p> <p>Bidder scope of Work (For Static Equipment) shall include but shall not be limited to following :</p> <ul style="list-style-type: none">a) Complete mechanical designb) Detailed engineering of equipment including all mountings, accessories & bought-out items.c) Procurement of all materials & bought out items.d) Shop/site fabrication (as applicable) & assemblye) Route survey, if requiredf) Inspection, testing (including hydro testing)g) Surface preparation, painting , insulation, pickling and Passivation (for SS equipments), internal and/or external coating, epoxy coating, rubber lining e.t.ch) Packing (seaworthy when sea transportation) forwarding, transportation to site etc.i) N2 filling of equipment as applicable



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						<p>j) Storage and preservation at site</p> <p>k) Statutory approvals</p> <p>l) Stage wise and final inspection by appointed TPIA/Owner</p> <p>m) Fire proofing as per requirement of the bid package</p> <p>n) Any other requirement for safe and smooth operation</p> <p>o) Submission of engineering drawing & document for Owner/PDIL review. All drawing submitted to owner/PDIL shall be thoroughly checked by contractor before submission.</p> <p>p) Supply of "As Built documentation and QC dossiers".</p> <p>The above mentioned activities shall be carried out in accordance with applicable code and all technical requirements covered in the bid package.</p> <p>1.1 Scope of supply (For Static Equipment)</p> <p>Bidder scope of supply shall include but shall not be limited to following</p> <ul style="list-style-type: none">• Supply of static equipment (Vessels, heat exchanger , Tanks, PHE e.t.c) including their accessories• Supply of all fabricated and proprietary internals for all equipment as applicable.• Supply of mandatory (spare parts for two year operation) and commissioning spares attached elsewhere in bid package.• Insulating material, primer paints, fire proofing material e.t.c.• Supply of material & equipment required for blast cleaning, chemical



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						<p>cleaning, pickling Passivation, surface preparation & polishing & coating of internal surface, epoxy coating, rubber lining, and FRP lining e.t.c. for equipment as applicable.</p> <ul style="list-style-type: none">• Supply of all equipments , tool & tackles including torque wrench, bolt tensioner, anchor bolt e.t.c. as per specification and all material required for inspection and testing (i.e. NDT, Hydro testing, performance testing e.t.c) erection & Hydro testing including all site re-hydro tested equipment.• Supply of all tools and tackles, template for foundation for heavy lift equipment and for the erection for all equipment.• Eye bolts, jack screws, dowel pins and lifting lugs etc. as required• Lifting lugs / erection lugs• Cleats for earthing connections• Name plate with bracket• Cover flanges for manholes, hand holes, inspection openings etc. with bolting and gaskets.• Supply of all other materials whether specifically mentioned or not but required for completion of the job in all respect as per bid package. <p>To be read as</p> <p>1.0 Scope</p> <p>This specification covers the requirements for the complete design (Mechanical), procurement, fabrication, construction/erection, insulation, painting ,Pickling &</p>



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	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						<p>Passivation (for SS equipments), inspection and testing of static equipment for urea handling & bagging package of M/s Talcher Fertilizer Ltd. (TFL) in accordance with this specification, standards specification, codes and other attachment etc. listed in NIT document..</p> <p>Bidder scope of Work (For Static Equipment) shall include but shall not be limited to following :</p> <ul style="list-style-type: none">a) Complete mechanical designb) Detailed engineering of equipment including all mountings, accessories & bought-out items.c) Procurement of all materials & bought out items.d) Shop/site fabrication (as applicable) & assemblye) Route survey, if requiredf) Inspection, testing (including hydro testing)g) Surface preparation, painting , insulation, pickling and Passivation (for SS equipments), internal and/or external coating, epoxy coating, rubber lining e.t.ch) Packing (seaworthy when sea transportation) forwarding, transportation to site etc.i) N2 filling of equipment as applicablej) Storage and preservation at sitek) Statutory approvalsl) Stage wise and final inspection by appointed TPIA/Owner



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						<p>m) Fire proofing as per requirement of the NIT .</p> <p>n) Any other requirement for safe and smooth operation</p> <p>o) Submission of engineering drawing & document for Owner/PDIL review. All drawing submitted to owner/PDIL shall be thoroughly checked by contractor before submission.</p> <p>p) Supply of “As Built documentation and QC dossiers”.</p> <p>The above mentioned activities shall be carried out in accordance with applicable code and all technical requirements covered in the NIT</p> <p>1.2 Scope of supply (For Static Equipment)</p> <p>Bidder scope of supply shall include but shall not be limited to following:</p> <ul style="list-style-type: none">• Supply of static equipment (Vessels, heat exchanger , Tanks, PHE e.t.c) including their accessories• Supply of all fabricated and proprietary internals for all equipment as applicable.• Supply of mandatory (spare parts for two year operation) and commissioning spares attached elsewhere in NIT.• Insulating material, primer paints, fire proofing material e.t.c.• Supply of material & equipment required for blast cleaning, chemical cleaning, pickling Passivation, surface preparation & polishing & coating of internal surface, epoxy coating, rubber lining, and FRP lining e.t.c. for equipment as applicable.



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						<ul style="list-style-type: none">• Supply of all equipments , tool & tackles including torque wrench, bolt tensioner, anchor bolt e.t.c. as per specification and all material required for inspection and testing (i.e. NDT, Hydro testing, performance testing e.t.c) erection & Hydro testing including all site re-hydro tested equipment.• Supply of all tools and tackles, template for foundation for heavy lift equipment and for the erection for all equipment.• Eye bolts, jack screws, dowel pins and lifting lugs etc. as required• Lifting lugs / erection lugs• Cleats for earthing connections• Name plate with bracket• Cover flanges for manholes, hand holes, inspection openings etc. with bolting and gaskets.• Supply of all other materials whether specifically mentioned or not but required for completion of the job in all respect as per NIT.
23.	Section- VI	485 of 1571	1.7	SPARES	M	<p>SPARES Two years operation spares shall be quoted as recommended by bidder for this package unit</p> <p>To be read as</p> <p>SPARES Two years operation spares (Mandatory spares) shall be quoted by bidder as per Section VI-6.0 (Mandatory spares) of NIT.</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
24.	Section VI-3.4, Design Specification-Instrumentation	1258 of 1571 (NIT)	3.1.1.5	Predefined Mandatory Spares	D	SECTION VI-3.4, GENERAL SPECIFICATION FOR PROGRAMMABLE LOGIC CONTROLLER (PLC) Clause No-3.1.1.5 - Stands deleted
25.	Section VI/ 3.0 Design Specification-Instrumentation	1256 of 1571 (NIT)	3.1	SPARES PHILOSOPHY	M	The system including sequence of event recorder, hardwired instruments etc. shall meet the following spare philosophy. This philosophy shall also be applicable for items like barriers, relays, terminals, lamps, push buttons etc. To be read as The system including sequence of event recorder, hardwired instruments etc. shall meet the following spare philosophy. Contractor to refer section VI-6.0 (spares) Instrumentation.
26.	Section VI/ 3.4 Design Specification-Instrumentation	1258 of 1571 (NIT)	3.1.2	SPARES PHILOSOPHY	D	SECTION VI-3.4, GENERAL SPECIFICATION FOR PROGRAMMABLE LOGIC CONTROLLER (PLC) Clause No-3.1.2 -Stands deleted
27.	Section VI/ 3.4 Design Specification-Instrumentation	1281 of 1571 (NIT)	6.0	GENERAL REQUIREMENTS	D	SECTION VI-3.4, GENERAL SPECIFICATION FOR PROGRAMMABLE LOGIC CONTROLLER (PLC) Clause No-6.0 -Stands deleted
28.	Section VI/ 3.3 (sheet 9 of 127)	650 of 1571 (NIT)	1.3.2, cc		M	Spares & consumables for complete electrics as follows: <ul style="list-style-type: none">- Commissioning Spares (as per Clause No. 16.0 of Design Philosophy-Electrical) and Spares for 2 Years operation (Mandatory/Insurance) for all equipments (as per Section VI-7.0: Spare Parts) shall be supplied by the Contractor as part of LSTK contract.- Contractor shall recommend 2 years Operational Spares (other than mandatory/ Insurance spare) for all the equipment (item-wise) with recommended quantity & unit price with validity of 2 Years. The same shall not be part of LSTK price.- Spares and consumables required and first oil fills including short fall during erection, testing, cold trials, commissioning, performance evaluation tests, guarantee tests etc and till handing over of installation.



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						<p>To be read as</p> <p>Spares & consumables for complete electrics as follows:</p> <ul style="list-style-type: none">- Commissioning Spares (as per Clause No. 16.0 of Design Philosophy-Electrical) and Spares for 2 Years operation (Mandatory) for all equipments (as per Section VI-6.0: Spare Parts) shall be supplied by the Contractor as part of LSTK contract.- Contractor shall provide recommended spares (other than mandatory spare) for all the equipment (item-wise) with recommended quantity.- Spares and consumables required and first oil fills including short fall during erection, testing, cold trials, commissioning, performance evaluation tests, guarantee tests etc and till handing over of installation shall be supplied by the Contractor as part of LSTK contract.
29.	Section VI/ 3.3 (sheet 35 of 127)	676 of 1571 (NIT)	9.1.2		M	<p>The equipment to be installed in indoor plant area shall be enclosed in dust, damp and vermin proof enclosure equivalent to IP 54 as per relevant Indian Standards/IEC.</p> <p>To be read as</p> <p>The equipment to be installed in indoor plant area shall be enclosed in dust, damp and vermin proof enclosure equivalent to IP 65 as per relevant Indian Standards/IEC.</p>
30.	Section VI/ 3.3 (sheet 55 of 127)	696 of 1571 (NIT)	9.13.3		M	<p>Electrical equipments located indoor shall have minimum IP-54 degree of protection, while outdoor equipments shall have minimum IP-55 degree of protection.</p> <p>To be read as</p> <p>Electrical equipments located indoor shall have minimum IP-65 degree of protection.</p>
31.	Section VI/ 3.3 (sheet 61 of 127)	696 of 1571 (NIT)	9.22.4		M	<p>The cabling between these junction boxes and electrical equipment shall be in vendor's scope of work.</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						To be read as The cabling between these junction boxes and electrical equipment shall be in LSTK Contractor's scope of work.
32.	Section VI/ 3.3 (sheet 68 of 127)	709 of 1571 (NIT)	11.1.26		A	<u>New Clause</u> Junction Boxes shall be provided with all type of Lighting Fixtures for looping. Connectors are not acceptable.
33.	Section VI/ 3.3 (sheet 72 of 127)	713 of 1571 (NIT)	15.0		A	Following has been added at end of clause : Cable Tray, Support for Cable trays, Support Structure, chequered plates etc. in MCC Room, Substation, Conveyor gantry, bagging building including platform area etc. shall be in LSTK Contractor' scope. However, Building Civil Works shall be done by Owner as per design / drawings provided by LSTK Contractor. No insert plate shall be provided by owner. LSTK contractor to consider Hilti chemical fasteners for each support end plate.
34.	Section VI/ 3.3 (sheet 73 of 127)	714 of 1571 (NIT)	16.1 to 16.5		M	16.1 Commissioning Spares Contractor shall recommend list of commissioning spares for all the equipments, as required. The commissioning spares shall form an integral part of the scope of supply. Contractor shall be responsible for the quantification of the commissioning spares for the smooth commissioning start up of the plant/ package system. Item wise list of commissioning spares with recommended quantity shall be furnished for information. The same shall be Part of contractor Price. 16.2 Mandatory/Insurance spares Contractor shall supply Mandatory / Insurance spares for all equipments as per Section 10.0: Spare Parts of this bid package. The same shall be Part of Contractor Price. 16.3 2 Years Bidder's Recommended Operational Spares (Other than Mandatory/ Insurance spare) Bidder shall recommend 2 years Operational Spares (other than mandatory/ Insurance spare) for all the equipment (item-wise) with recommended quantity and unit price. The item-wise price shall be with validity of 2 Years. The same shall not be part of Contractor price. 16.4 All spare parts shall be identical to the parts used in the equipments. 16.5 Any other spare parts or special tools not specified, but required, shall also be quoted along with the offer.



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						<p>To be read as</p> <p>16.1 Commissioning Spares The commissioning spares shall form an integral part of the scope of supply. Contractor shall be responsible for the quantification of the commissioning spares for the smooth commissioning start up of the plant/ package system. Item wise list of commissioning spares with recommended quantity shall be furnished for information. The same shall be Part of LSTK price.</p> <p>16.2 2 years operational spares (Mandatory) Contractor shall supply Mandatory spares for all equipments as per Section VI-6.0: Spare Parts of NIT. The same shall be Part of LSTK Price.</p> <p>16.3 Recommended Spares (Other than Mandatory spare) Contractor shall provide recommended spares (other than mandatory spare) for all the equipment (item-wise) with recommended quantity.</p> <p>16.4 All spare parts shall be identical to the parts used in the equipments.</p> <p>16.5 Any other spare parts or special tools not specified, but required, shall also be provided. The same shall be part of LSTK Price.</p>
35.	Section VI/ 3.3 (sheet 74 of 127)	715 of 1571 (NIT)	19.3 to 19.6		D	<p>Following clauses stand deleted :</p> <p>19.3 A dedicated PC with licensed copy of documentation software shall be included in the scope of Contractor for documentation of Electrical Engineering.</p> <p>19.4 The software shall be used for preparing and updating the various documents such as general arrangement drawings, cable schedules, single line diagrams, control system drawings and equipment specifications etc.</p> <p>19.5 The documentation software shall be same which is used by the Contractor for electrical documentation.</p> <p>19.6 The details of the documentation software shall be furnished in the technical offer.</p>
36.	Section VI/ 3.3 (sheet 78 of 127)	719 of 1571 (NIT)	22.1		M	<p>Variable Speed Drive: Persons for one week.</p> <p>To be read as</p> <p>b) Variable Speed Drive: Two engineers for one week.</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						Rest of Clauses shall remain unchanged.
37.	Section VI/ 3.3 (sheet 78 of 127)	719 of 1571 (NIT)	23.1		M	Make of all electrical equipment shall be as per Section 15.0: Vendor List attached with this bid package. To be read as Make of all electrical equipment shall be as per Section VI-10.0: Vendor List attached with this NIT.
38.	Section VI/ 3.3 (sheet 78 of 127)	719 of 1571 (NIT)	23.3		D	Following clause stand deleted : 23.3 Bidder shall indicate the make of all the major equipments in their offer.
39.	Section VI/ 3.3 (sheet 85 of 127)	726 of 1571 (NIT)	28.0		D	Clause 28.0 Deviations stand 'deleted'
40.	Section VI/ 3.3 Various Attachments				D	Following Clauses stands deleted a. Technical Specification - UPS System (PC183-TS-0803: Clause 13.0 b. Technical Specification – Power Transformer (PC183-TS-0803): Clause 13.0 c. Technical Specification - Neutral Earthing Resistors (PC183-TS-0804) : Clause 12.0 d. Technical Specification - Medium Voltage Switch Boards (PC183-TS-0805) : Clause 13.0 e. Technical Specification – High Voltage Switch Boards (PC183-TS-0806) : Clause 13.0 f. Technical Specification – Busduct (PC183-TS-0807) : Clause 13.0 g. Technical Specification – Sheet Steel Distribution Boards (PC183-TS-0808) : Clause 13.0 h. Technical Specification – Lighting Sub Distribution Boards (PC183-TS-0809) : Clause 13.0



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						<p>i. Technical Specification – Induction Motor (PC183-TS-0810) : Clause 15.0</p> <p>j. Technical Specification – Interlocking Switch Socket And Plug (PC183-TS-0811) : Clause 13.0</p> <p>k. Technical Specification – Battery Charger : PC183-TS-0813) : Clause 13.0</p> <p>l. Technical Specification – Battery : PC183-TS-0814) : Clause 11.0</p> <p>m. Technical Specification – Cables : PC183-TS-0815) : Clause 10.0</p> <p>n. Technical Specification – Prefabricated Ladder Type Cable Racks : PC183-TS-0816) : Clause 7.0</p> <p>o. Technical Specification – Local Control Station : PC183-TS-0817) : Clause 13.0</p> <p>p. Technical Specification – Junction Box: PC183-TS-0818) : Clause 11.0</p> <p>q. Technical Specification – Electricals For Overhead Cranes & Hoists: PC183-TS-0819) : Clause 14.0</p> <p>r. Technical Specification – Capacitor Bank And Associated Equipment: Pc183-Ts-0822) : Clause 13.0</p> <p>s. Technical Specification – Auxiliary Service Transformer: PC183-TS-0829) : Clause 13.0</p> <p>t. Electrical Specification For Bagging & Stitching Machine With Weighing Cum Tipping Machine: : Clause 18.0</p>
41.	Section VI/ 3.3 (sheet 105 of 127)	746 of 1571 (NIT)			M	<p>Specification Sheet - Lighting Sub Distribution Board Degree of Protection : Min IP55</p> <p>To be read as</p> <p>Degree of Protection : Min IP65</p> <p>This shall be applicable for all LSDBs.</p>
42.	Section VI/ 3.3 (sheet 106 of 127)	747 of 1571 (NIT)			M	<p>Specification Sheet - Switch Socket & Plug Degree of Protection : IP55</p> <p>To be read as</p> <p>Degree of Protection : IP65</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
43.	Section VI/ 3.3 (sheet 107 of 127)	748 of 1571 (NIT)			M	Specification Sheets - Junction Box Degree of Protection : IP55 To be read as Degree of Protection : IP65
44.	Section VI/ 3.3 Attachment Technical Specification – Power Transformer (sheet 3 of 24)	782 of 1571 (NIT)	5.1		M	Transformers shall be built under strict quality assurance procedures to comply with IEC 60076 and or IEC 60726 and shall have a guaranteed life time of 30 years. To be read as Transformers shall be built under strict quality assurance procedures to comply with IEC 60076 and or IEC 60726.
45.	Section VI/ 3.3 Attachment Technical Specification – Power Transformer (sheet 4 of 24)	783 of 1571 (NIT)	5.8.4, 5.9.1		M	Below line in both clauses modified: A minimum of 2 lakh trouble-free operations shall be guaranteed. To be read as A minimum of 2 lakh trouble free operation to be considered. Rest of Clauses shall remain unchanged.
46.	Section VI/ 3.3 Attachment Technical Specification – Power Transformer (sheet 8 of 24)	787 of 1571 (NIT)	5.10		M	Impedance Voltage The impedance voltage of the transformer at 75OC shall be as per relevant IS / IEC. This shall be guaranteed within limits specified in relevant IS / IEC at principal tap position. To be read as The impedance voltage of the transformer at 75 ^o C shall be as per latest IS 1180. This shall be guaranteed within limits specified in relevant IS / IEC at principal tap position. There shall not be any negative tolerance.



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
47.	Section VI/ 3.3 Attachment Technical Specification – Power Transformer (sheet 9 of 24)	787 of 1571 (NIT)	5.11		M	<p>Losses The losses under the full load condition, at the rated voltage and frequency shall be indicated by the vendor at 75OC. These shall be guaranteed within the tolerable limits specified in IS:2026 at principal tap position. The purchaser has the right to impose penalty charges or reject the transformer in case of any difference in the test and guaranteed values. For upto 2 MVA transformer losses shall be as per energy efficiency level-3 of latest IS 1180.</p> <p>To be read as The losses at 50 percent of rated load and full load condition, at the rated voltage and frequency shall be indicated by the vendor at 75°C. These shall be guaranteed within the tolerable limits specified in IS:2026 at principal tap position. Owner has the right to impose penalty charges or reject the transformer in case of any difference in the test and guaranteed values. For upto 2 MVA transformer losses shall be as per energy efficiency level-3 of latest IS 1180.</p>
48.	Section VI/ 3.3 Attachment Technical Specification – Lighting Sub Distribution Boards (sheet 3 of 7)	864 of 1571 (NIT)	5.1		M	<p>The lighting sub distribution boards shall be fabricated out of 2.5 mm thick cold rolled sheet steel and shall be suitable for mounting on wall/structure. These shall have dust and vermin proof construction conforming to IP-54 as per IS/IEC:60947. For outdoor installation, the enclosure shall conform to IPW-55. Suitable canopy made out of 2 mm thick Aluminium sheet shall be supplied along with the board.</p> <p>To be read as The lighting sub distribution boards shall be fabricated out of cast aluminium or stainless steel and shall be suitable for mounting on wall/structure. These shall have dust and vermin proof construction conforming to IP-65 as per IS/IEC:60947. Suitable canopy made out of 2 mm thick Aluminium sheet shall be supplied along with the board.</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
49.	Section VI/ 3.3 Attachment Technical Specification – Induction Motor (sheet 6 of 13)	874 of 1571 (NIT)	4.8.1 & 4.8.2		M	<p>4.81.1 All motors shall be provided with bearings suitable for the application. The bearings must be guaranteed to ensure a smooth operation and a life not shorter than 30,000 hrs.</p> <p>4.8.2 Where external thrusts are specified, the motors shall be fitted with special roller thrust bearings capable of withstanding the specified thrust. In such cases, the guaranteed life of the bearings shall not be less than 20,000 hours.</p> <p>To be read as</p> <p>4.81.1 All motors shall be provided with bearings suitable for the application. The bearings shall have a smooth operation and a life not shorter than 30,000 hrs.</p> <p>4.8.2 Where external thrusts are specified, the motors shall be fitted with special roller thrust bearings capable of withstanding the specified thrust. In such cases, the life of the bearings shall not be less than 20,000 hours.</p>
50.	Section VI/ 3.3 Attachment Technical Specification – Junction Box (sheet 5 of 7)	933 of 1571 (NIT)	5.9		D	<p>Following clause stands deleted :</p> <p>5.9 Duly wired prototype samples for junction boxes shall be submitted for scrutiny as and when called for.</p>
51.	Section VI/ 3.3 Attachment Technical Specification – Electricals for Overhead Cranes & Hoists	946 of 1571 (NIT)			D	<p>Following in Annexure I stands deleted.</p> <p>i) The tenderer shall also quote for any other spares as deemed necessary to be kept in stock for stipulated time.</p> <p>Rest of Annexure I shall remain unchanged.</p>
52.	Section VI/ 3.3 Attachment Technical Specification – High Voltage	950 of 1571 (NIT)	3.1		M	<p>The offered equipment shall be brand new with state of art technology and proven field track record. No prototype equipment shall be offered.</p> <p>To be read as</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
	Variable Frequency Drives (sheet 14 of 15)					The offered equipment shall be brand new with state of art technology and proven field track record.
53.	Section VI/ 3.3 Attachment Technical Specification – High Voltage Variable Frequency Drives (sheet 4 of 15)	950 of 1571 (NIT)	3.2		D	Following clause stands deleted : Vendor shall ensure availability of spare parts and maintenance support services for the offered equipment for at least 15 years from the date of supply
54.	Section VI/ 3.3 Attachment Technical Specification – High Voltage Variable Frequency Drives (sheet 14 of 15)	960 of 1571 (NIT)	5.9		M	Reliability Features The expected lifetime of the drive system shall be min. 20 years. The system including all individual components forming part of the system shall have an availability of minimum 0.997 and a minimum MTBF of 4 years. To be read as Reliability Features The system including all individual components forming part of the system shall have an availability of minimum 0.997 and a minimum MTBF of 4 years.
55.	Section VI/ 3.3 Attachment Technical Specification – Medium Voltage Variable Frequency Drives (sheet 4 of 15)	965 of 1571 (NIT)	3.1		M	The offered equipment shall be brand new with state of art technology and proven field track record. No prototype equipment shall be offered. To be read as The offered equipment shall be brand new with state of art technology and proven field track record.



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
56.	Section VI/ 3.3 Attachment Technical Specification – Medium Voltage Variable Frequency Drives (sheet 4 of 15)	965 of 1571 (NIT)	3.2		D	Following clause stands deleted : Vendor shall ensure availability of spare parts and maintenance support services for the offered equipment for at least 15 years from the date of supply
57.	Section VI/ 3.3 Attachment Technical Specification – Medium Voltage Variable Frequency Drives (sheet 14 of 15)	975 of 1571 (NIT)	5.9		M	Reliability Features The expected life time of the VFD shall be minimum 20 years. The VFD including all individual components forming part of the system shall have an availability of minimum 0.997 and a minimum MTBF of 4 years. The controller design shall incorporate the following reliability features: - Pre-tested components with power components to be 100% tested under dynamic conditions. - Printed circuit boards shall be computer tested and adjusted. - Printed circuit boards shall be temperature cycled for a minimum of 40 hours. - Printed circuit boards shall be treated for tropical, humid and corrosive environment. To be read as 5.9 Reliability Features The VFD including all individual components forming part of the system shall have an availability of minimum 0.997 and a minimum MTBF of 4 years. The controller design shall incorporate the following reliability features: - Pre-tested components with power components to be 100% tested under dynamic conditions. - Printed circuit boards shall be computer tested and adjusted. - Printed circuit boards shall be temperature cycled for a minimum of 40 hours. - Printed circuit boards shall be treated for tropical, humid and corrosive



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

NIT NO. : PNMM/PC-183/E-4010/NCB

Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
						environment.
58.	Section VI/ 3.3 Attachment Technical Specification - Capacitor Bank and Associated Equipment	981 of 1571 (NIT)	5.1.15		M	<p>The capacitor shall have low value of loss which shall not exceed 0.2 watt per KVAR. The loss value of discharge device/resistor and capacitor unit shall be indicated. The tan delta characteristics of the capacitor units shall be furnished. The losses in watts for each capacitor unit including losses in fuses and discharge resistors forming integral part of the capacitors along with losses for series reactor shall be guaranteed. If these figures of capacitor losses exceed 0.2 watt per KVAR, the capacitors will be liable for rejection. However owner reserve the right to use the faulty capacitor unit till the same are replaced/ rectified. The loss temperature characteristics, characteristics and insulation resistance temperature characteristics shall also be furnished.</p> <p>To be read as</p> <p>The capacitor shall have low value of loss which shall not exceed 0.2 watt per KVAR. The loss value of discharge device/resistor and capacitor unit shall be indicated. The tan delta characteristics of the capacitor units shall be furnished. The losses in watts for each capacitor unit including losses in fuses and discharge resistors forming integral part of the capacitors along with losses for series reactor shall be ensured. If these figures of capacitor losses exceed 0.2 watt per KVAR, the capacitors will be liable for rejection. However owner reserve the right to use the faulty capacitor unit till the same are replaced/ rectified. The loss temperature characteristics, characteristics and insulation resistance temperature characteristics shall also be furnished.</p>
59.	Section VI/ 3.3 Attachment Bagging & Stitching Machine With Weighing Cum Tipping Machine	1004 of 1571 (NIT)	17.0		M	<p>17.0 Spares The Vendor shall provided spares as per spare list enclosed elsewhere in NIT. Spares for commissioning, as required, shall be supplied without any extra cost.</p> <p>To be read as</p> <p>17.0 Spares 17.1 Commissioning Spares: Commissioning spares, as required, shall be supplied</p>



UREA (NEEM OIL COATED) HANDLING & BAGGING PACKAGE

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Amendment- X dated 10.12.2021



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
	(sheet 9 of 9)					with the main equipment. Item-wise list of recommended commissioning spares shall be furnished for information. 17.2 2 years operational spares (Mandatory) Contractor shall supply Mandatory spares for all equipments as per Section VI-6.0: Spare Parts of NIT. The same shall be Part of LSTK Price. 17.3 Recommended Spares (Other than Mandatory spare) Contractor shall provide recommended spares (other than mandatory spare) for all the equipment (item-wise) with recommended quantity. 17.4 All spare parts shall be identical to the parts used in the equipment.
60.	Section VI/ 3.3 Attachment Electrical Specification for Scrapper (sheet 13 of 13)	1017 of 1571 (NIT)	16.0		M	16.1. The vendor shall submit spares with unit prices recommended for 2 years trouble free operation as indicated in List of spares enclosed elsewhere in NIT. 16.2. Spares for commissioning, as required, shall be supplied without any extra cost. To be read as 16.1 Commissioning Spares: Commissioning spares, as required, shall be supplied with the main equipment. Item-wise list of recommended commissioning spares shall be furnished for information 16.2 2 years operational spares (Mandatory) Contractor shall supply Mandatory spares for all equipments as per Section VI-6.0: Spare Parts of NIT. The same shall be Part of LSTK Price. 16.3 Recommended Spares (Other than Mandatory spare) Contractor shall provide recommended spares (other than mandatory spare) for all the equipment (item-wise) with recommended quantity. 16.4 All spare parts shall be identical to the parts used in the equipment
61.	Section VI/ 3.3 Attachment Engineering Standard - Electrical Erection, Testing &	1063 of 1571 (NIT)	12.0		D	Clause 12.0 'Measurement' stands deleted



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	Commissioning (sheet 46 of 50)					
62.	Section-VII	BoQ2	Heading of Annexure-B of BoQ2 Sheet	Annexure-B (BoQ2 sheet)	M	<p>Annexure-B</p> <p>Consumption Figures for Guaranteed works cost (To be submitted as per instruction under Section VI-2.0, of NIT)]</p> <p>To be read as</p> <p>Annexure-B</p> <p>Consumption Figures for Guaranteed works cost (To be submitted as per instruction under Section VI-8.0, of NIT)]</p>

LEGEND:

M: MODIFICATION, A: ADDITION, D: DELETION