

Reply of Pre Bid Queries [LOT-1_dt. 23.03.2023]

NAME OF WORK : COMPOSITE SUPPLY CUM ERECTION OF ELECTRICAL & INSTRUMENTATION WORKS FOR OSBL FACILITIES ON ITEM RATE BASIS AT TALCHER FERTILIZERS LIMITED, ANGUL, ODISHA

TENDER NO : PNP/PC-183/E/8003/NCB

SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	PDIL'S REPLY
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1					Waiver of BID SECURITY / EARNEST MONEY DEPOSIT (EMD) of Rs.24.75 Lakhs as per clause no.16 of ITB	Waiver of BID SECURITY / EARNEST MONEY DEPOSIT (EMD) is not allowed. May please submit asper NIT.
2					We have been executing a contract in the similar payment terms at Gorakhpur and Sindri site and we have incurred huge loss because of the payment terms and time extension of the contract for the reasons not attributable to us. Hence,the terms of payment as per SCC of the contract shall be modified as given below. <ul style="list-style-type: none"> • Supply Items (Part-A) - 90% upon receipt of material at site and acceptance of equipment/materials, & Section-A of Instrument supply - 10% against Inspection and Testing. • Erection Items (Part-B) - 90% on completion of erection / Installation & Section B1 & B2 -10% after inspection/testing • Supply and Erection (Part-C) - 85% on receipt and acceptance of material at site. - 10% on completion of erection / Installation 	Bidder request is not acceptable, same shall be as per NIT.
3					Section III of ITB clause No:33 compensation for extended stay: We require compensation for extended stay at actuals if the delay is not attributable to us.	No change, same shall be as per NIT.
4	BEC & EVALUATION METHODOLOGY	11 of 1065	Clause No. 1.2	'A' Class Electrical Contractor / license	Bidder understands that bidder may eligible for this tender considering the affirmation during bidding stage as follows:- 1. Bidder shall take the "A" class Electrical License as per bid requirement if the work is awarded in favour of bidder Or 2. Bidder may engage sub-contractor with valid "A" class Electrical License. Kindly confirm the same.	Valid 'A' calss Electrical license is required to meet the BEC requirement.
5				MV/HV Switch Board	Bidder understands that supply of MV/HV switch board is deleted from bidder scope of Supply and same shall be supplied by OWNER/PMC as FIM materials for Erection. Kindly confirm the same. If above is deleted from bidder scope, then we are requesting you to delete the scope of supply of Spares for above system.	Scope of Supply of Switchboards as per SOR. Refer Part C. Spares as per SOR shall be in E&I Contractor's scope.
6			BOQ		Sr. no. 17.00-17.22 calls for Supply of FRP Trays , same Quantity of FRP Trays supply is asked at BOQ Sr. No - 25.20-25.28 , Pls Confirm whether In item 25.20-25.28 we need to Quote Supply as well as erection OR only Erection.	Quote supply rate in Supply section ,Quore ertation rate in erection section

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7			Approved Make List		Pls give makes for GPS System	Refer BoQ S.No. 19.11 it is clearly mentioned GPS Master(redundant Configuration), SERTEL make (antenna with associated Electronics) & NTP client softwre with complete system.
8			Approved Make List		In FRP Trays - make lists - Globe, Indiana, Metallems, Sadhana and Steelite does not manufacture FRP Trays, they make GI Trays, hence pls approve following makes for FRP Trays. Sintex / Kemrock / EPP / Ercon / Satyam / India Electric Syndicate	Bidder to note that Vendor List enclosed with the NIT shall only be followed.
9			Approved Make List		for 11KV ICOG Panels - Pls approve channel Partners of OEM like ABB, Siemens ,	Only OEMs are acceptable.
10			Approved Make List		For 11KV Trafo - Pls note 0 GE, ABB, Siemens, Bhel, Toshiba are not manufacturing such small rating transformer at present, you are requested to kindly approve - Essenar, Indcoil, Sudhir Transformer etc.	Make as per NIT.
11			LAN System		Pls give makes for LAN System	Bidder to also note that any other item for which other proven vendors are not mentioned in NIT, successful LSTK bidder may furnish list of proven suppliers with PTR subject to Owner's/Consultant's approval during detailed engineering.
12			Specification and data sheets		Please give data sheet for Pressure Guages.	Approved Make data sheet of Pressure guage shall be provided as per Range spesecified in the BoQ.
13			Specification and data sheets		Please give data sheet for Pressure Control Valve	Approved Make data sheet of Pressure Control valve be provided
14			Specification and data sheets		Specs for Electrical Control System and Monitoring System is given in tender documents. We understand that there is no scope of above system supply and erection is envisaged in this tender scope, Pls Confirm	ECMS is not in E&I contractor's scope.
15			Specification and data sheets		Specs for Crane and Hoists is given in tender documents. We understand that there is no scope of above system supply and erection is envisaged in this tender scope, Pls Confirm	Not in E&I Contractor's scope.

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16					Bidder requested for "We would like to request if completion time for similar work can be considered as 10years instead of 07 years."	No change, Shall be as per NIT.
	SOR	-	7.11	415V Switchboard		
17	SOR	-	7.12	Handling, installation including transportation from store to site of installation, erection, testing and commissioning of 415V power-control-centres and bus duct, motor control centres, soft starters, APFC panel etc. assembling as required, unpacking, inspection, fabrication and erection of foundation channel, installation on the foundation channels, welding, aligning, leveling, grouting, assembling, fitting of all accessories / instruments / relays, relay coordination, CT, PT, Numerical Relay, interconnection of shipping sections and inter panel wiring as necessary, inter bus bar jointing, bus bar connection, installation, erection, testing and commissioning of bus duct, as per drawing, specifications and directions of the Site Engineer/ Engineer-in-Charge including cost of all materials, tools labour etc. complete in all respect including supply of WP double compression rolled aluminium cable glands & lugs (Al/Cu/Bimetalic), termination of all power, control cables, installation of thermistor controller, internal wiring, earthing of LT panels & bus duct, making holes for cable entries as required, shrouding, plugging/sealing of all unused cable entries and other holes for making the same dust and vermin proof etc. complete as per drawings, specification and directions of Site Engineer / Engineer-in-Charge.	Please provide distance between site & store	Site Store shall be allotted to E&I Contractor within the Plant premises. Approx. Distance of 1 KM may be considered.

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18	SOR	-	7.17	<p>Handling, storage at site, transportation from store to site of installation, erection, installation, testing and commissioning of (outdoor type - ONAN cooled) transformer, erection of transformer over the rail and foundation channels, including transporting, unpacking, rigging, aligning, levelling, grouting, assembling, fitting and fixing all accessories/instruments/relays etc. supplied separately if any, etc., supply of WP double compression rolled aluminium cable glands & suitable lugs (Al/Cu/Bimetalic), making all the interconnections & termination of all power (HT/LT) cables, control cables / busbar etc. as per drawings, including earthing/grounding of transformer neutral as per drawing, equipments needed to completely install and commission the transformer Job complete in all respect including cost of all labour, tools and materials and all services rendered complete, installation of thermistor controller, internal wiring, earthing of LT panel etc. complete as per drawings and directions of the Site Engineer / engineer-in-Charge.</p> <p>Note: Commissioning assistance shall be provided by the supplier of the Transformer as and when required at site.</p>		<p>1.Please provide distance between site & store 2.We will consider installation of transformer excluding foundation</p>	<p>Site Store shall be allotted to E&I Contractor within the Plant premises.</p> <p>Approx. Distance of 1 KM may be considered.</p> <p>Foundation is not in E&I contractor's scope.</p>
19	SOR	-	7.44	<p>Handling, Laying (horizontal & vertical), testing and commissioning of 11KV(UE)/ 1.1 KV Grade, XLPE Insulated, PVC inner sheathed, armoured, FRLS PVC outer sheathed cables including its termination in new & readymade trenches, on pre-fabricated/ site-fabricated cable trays/ racks, on already installed risers, support, hangers,saddles / directly burried up to 700mm depth etc. pulling through pipes on walls/columns, steel structures including transportation of cable drums from storage yard to site, unrolling the drum, including supply & fixing of cable tags, Al clamps with all labour, consumable materials and necessary hardware to make installation complete in all respect as per direction of Site Engineer / Engineer-in-charge.</p>		<p>We will consider only cable laying excluding excavation. If required same shall be charged as per item no.7.11</p>	<p>Noted. Excavation etc. shall be paid as per relevant SOR Item.</p>

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20	SOR	-	7.55	<p>Earthing strip/wire/rope/cable for completely making the earthing grid system by laying the GI strip / GI Wire enclosed in ready made concrete trenches or in floor slits, on brick / concrete wall under concrete floors, or paved areas, across pipe joints and valves, directly buried under ground at depth of 600 mm, including handling, transportation to erection site, bending, straightening, cutting to size, welding together of earth strips in overlapping manner, chipping in concrete floors / paved areas for laying the earth strips under floors / paved areas and making good by cement plastering concrete after laying of the strips; clamping and supporting of earth strips laid above ground, connecting the strips / wire at both ends to equipment or to earth bus / earth plates or to GI brackets fixed inside earthpit chamber, by bolting etc., Hessian tapes, all necessary GI hardware, GI clamps, civil masonry materials, etc. all work, labour as per specifications, codes and standards and directions of Site engineer/Engineer-in-charge, including the cost of all labour, tools, materials, etc. complete in all respect.</p> <p>Note: The conductors shall be laid at a minimum depth of 600 mm from ground level. The excavation for the GI earth conductors / strips shall not be separately measured and the rates quoted to include the same.</p>		<p>We will consider only erection excluding excavation. If required same shall be charged as per item no.7.11</p>	<p>Noted. Excavation etc. shall be paid as per relevant SOR Item.</p>
21	SOR	-	7.61	<p>Handling, installation & fixing of prefabricated ladder GI cable trays and their accessories i.e. supply of all hardware required i.e. J-hooks, GI Nut, Bolt, Washers, coupling plate etc. of width 150 mm, 300 mm, 450 mm & 600 mm as per site requirement for laying of cables with standard rung spacings. Load for support span of 2.5 meter as 30, 60, 75 & 90 (in Kg/Mtr.) respectively with concentric static load as 70 Kg at the centre, with materials, labour, tools and tackles, consumables etc. as per drawings, specification and directions of Site Engineer / Engineer-in-Charge. The rates shall be valid for all mounting heights.</p>		<p>We will consider only installation of tray excluding Support(S/I). If required same shall be charged as per item no.7.11</p>	<p>Noted. Structural Support etc. shall be paid as per relevant SOR Item.</p>
	SOR	-	8.11	DISTRIBUTION BOARDS:			

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22	SOR	-	8.12	Supply, unloading, Handling, Storage, transporation within site, Erection, Installation, testing and commissioning etc. of following floor / wall mounted Distribution Boards/Sub distribution board having minimum IP-54 protection, Aluminium Bus Bar with Color Coded Heat Shrinkable Sleeves, storage, handling, site trasporation from store to site of installation, including supply and fabrication of epoxy painted MS frame, operational and functional checking, drilling of gland plates with requisite holes, supply & fixing of suitable double compression nickel plated brass/rolled Al cable glands & suitable lugs, termination of all power and control cables, shrouding,plugging of all unused cable entries and other holes found in the boards to make the same dust and vermin proof with all labour and consumable materials to make installation complete of following Distribution Boards as specified in Technical Specification - Electrical,Technical Specification PC183-TS-0805 PC183-TS- 0808 and attached SLD, data sheets, drawings, specifications and directions of engineer-in-charge:		We will provide IP 52 protection instead of IP 54 protection as per manufacturer.	2500 A PCC may be IP 52. Remaining Switchboards shall be IP-54 / IP-55 as per SOR.
	SOR	-	9.00	LIGHTING			
23	SOR	-	9.11	Supply, unloading, storage, handling, transporation within site from store to site of installation, installation, connection, earthing and testing of the following LED fittings, including supply and installation of drop pipes, hooks, JB/TB for looping of fixtures, fittings, fixtures, nuts, bolts, supports, on walls and all other required materials gland, lugs as required etc. as specified in Technical Specification and all hardware for fixing the lighting fittings with ceiling/wall pole including cable glanding, crimping of lugs on cable conductor & connecting cables at fixtures in looping and from lighting DB, earthing, junction boxes, etc., drawings and directions of the Site Engineer including cost of all labour, tools, materials as well as transportation from store to site of erection with all labour and material to make installation complete in all respect. Make of the fittings shall be as per approved make as metioned in Technical specification.		1.In this scope of work we have considered installation of light fixture at an elevation up to 6 Mtr only. We shall charge extra for higher elevation and support. 2. Please provide details specification, Drawing for supporting structural steel, chain and conduit arrangement for installation of light fixture. or 3.We will consider 1mtr legth for light fixture support.-Please confirm	1. As per NIT, the rate quoted shall be applicable for all height. 2. The Lighting Fixtures shall be provided with all installation accessories. 3. The Lighting Fixtures shall be provided with all installation accessories. Moreover, Lighting Fixtures shall be installed as per Lighting Layout.
	SOR	-	9.27	Wiring			

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24	SOR	-	9.28	<p>Point Wiring : One Light / Fan / Exhaust Fan Point shall controlled by one switch . Supply and Providing Point Wiring system for primary light point/ceiling fan point/exhaust fan point/ call bell point/light plug point controlled by 1-6 Ampere modular type switch inclusive of the cost for providing circuit wiring from Distribution board to switch boards with 2x2.5 sq.mm.,1.1 KV grade PVC multi stranded fire resistant insulated copper conductor wire for light in required size of rigid PVC conduit with conduit accessories and 14swg bare copper earth wire continuity conductor including providing/fixing of PVC conduit of required size. Item shall also include wiring from switch board to point/fitting with 2x1.5 sq.mm copper conductor PVC insulated wire of 1100V grade with 14 SWG copper wire as earth continuity conductor for light in appropriate size of PVC conduit including providing & fixing PVC conduit with accessories such as bends,JB,sockets etc.required size of MS zinc passivated modular box with white inner plate and glossy white outer module plate for housing modular switch, sockets, fan regulators (Electronic heavy duty step up type) bell push on modular plate etc,The rates shall include cutting and refilling of chases/ Wall etc. including internal connections as required. All switch sockets shall be modular type fixed on modular plate. Make of modular plate, board, switch, socket etc shall be as per approved Make .(Actual nos. shall be decided at site).</p>	60	Nos.	<p>1. We will consider 2 x 2.5+1 x 1.5sqmm multistranded FR wire with 20mm dia PVC Conduit including 1-6 Ampere modular type switch. Please Confirm 2. Please provide legh for point wiring</p>	<p>1. SOR to be followed. 2. Location of lighting Fixtures and Switches shall be finalised during detailed engineering.</p>

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25	SOR	-	9.29	<p>Point Wiring : TWO Light / Fan / Exhaust Fan Point shall controlled by one switch. Supply and Providing Point Wiring system for primary light point/ceiling fan point/exhaust fan point/ call bell point/light plug point controlled by 1-6 Ampere modular type switch inclusive of the cost for providing circuit wiring from Distribution board to switch boards with 2x2.5 sq.mm.,1.1 KV grade PVC multi stranded fire resistant insulated copper conductor wire for light in required size of rigid PVC conduit with conduit accessories and 14swg bare copper earth wire continuity conductor including providing/fixing of PVC conduit of required size. Item shall also include wiring from switch board to point/fitting with 2x1.5 sq.mm copper conductor PVC insulated wire of 1100V grade with 14 SWG copper wire as earth continuity conductor for light in appropriate size of PVC conduit including providing & fixing PVC conduit with accessories such as bends,JB,sockets etc.required size of MS zinc passivated modular box with white inner plate and glossy white outer module plate for housing modular switch,sockets,fan regulators (Electronic heavy duty step up type) bell push on modular plate etc,The rates shall include cutting and refilling of chases/wall etc. including internal connections as required. All switch sockets shall be modular type fixed on modular plate. Make of modular plate,board switch, socket etc shall be as per approved Make. (Actual nos. shall be decided at site).</p>	20	Nos.	<p>1. We will consider 2 x 2.5+1 x 1.5sqmm multistranded FR wire with 20mm dia PVC Conduit including 1-6 Ampere modular type switch. Please Confirm 2. Please provide leghth for point wiring</p>	<p>1. SOR to be followed. 2. Location of lighting Fixtures and Switches shall be finalised during detailed engineering.</p>

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26	SOR	-	9.30	<p>Point Wiring : THREE Light / Fan /Exhaust Fan Point shall controlled by one switch. Supply and Providing Point Wiring system for primary light point/ceiling fan point/exhaust fan point/ call bell point/light plug point controlled by 1-6 Ampere modular type switch inclusive of the cost for providing circuit wiring from Distribution board to switch boards with 2x2.5 sq.mm.,1.1 KV grade PVC multi stranded fire resistant insulated copper conductor wire for light in required size of rigid PVC conduit with conduit accessories and 14swg bare copper earth wire continuity conductor including providing/fixing of PVC conduit of required size. Item shall also include wiring from switch board to point/fitting with 2x1.5 sq.mm copper conductor PVC insulated wire of 1100V grade with 14 SWG copper wire as earth continuity conductor for light in appropriate size of PVC conduit including providing & fixing PVC conduit with accessories such as bends,JB,sockets etc.required size of MS zinc passivated modular box with white inner plate and glossy white outer module plate for housing modular switch,sockets,fan regulators (Electronic heavy duty step up type) bell push on modular plate etc,The rates shall include cutting and refilling of chases/wall etc. including internal connections as required. All switch sockets shall be modular type fixed on modular plate. Make of modular plate,board switch, socket etc shall be as per approved Make. (Actual nos. shall be decided at site).</p>	5	Nos.	<p>1. We will consider 2 x 2.5+1 x 1.5sqmm multistranded FR wire with 20mm dia PVC Conduit including 1-6 Ampere modular type switch. Please Confirm 2. Please provide leghth for point wiring</p>	<p>1. Noted. 2. Location of lighting Fixtures, fan etc. and Switches shall be finalised during detailed engineering.</p>
27	SOR	-	9.32	<p>Point Wiring : Plug Point Supply and Providing Point Wiring system for 6A Plug points with single core multi stranded PVC insulated unsheathed copper conductor fire retardant wires of 1100V grade in recessed PVC conduit including providing and fixing PVC conduits of required size complete with accessories such as bends,JB, Pull Boxes etc with plate, switches,sockets,screws and covers, Zinc Passivated MS modular boxes (16 gauge sheet construction) of suitable sizes, embedded in wall, concealed and flush with walls including cutting and refilling the chases/ Wall etc and inclusive of 14 SWG bare copper earth conductor for socket outlets as per specifications & direction of Engineer in charge. All Modular type switch & socket shall be of approved make.6 Amp 6 pin socket outlet with 6A switch mounted side by side with 2x2.5 sq.mm PVC copper wire with 14 SWG bare copper earth wire.(Actual nos. shall be decided at site).</p>	20	Nos.	<p>1. We will consider 2 x 2.5+1 x 1.5sqmm multistranded FR wire with 20mm dia PVC Conduit including 1-6 Ampere modular type switch. Please Confirm 2. Please provide leghth for point wiring</p>	<p>1. Noted. 2. Location of Plug Point etc. shall be finalised during detailed engineering.</p>

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28	SOR	-	9.45	Supply, erection, installation, testing and commissioning of flameproof/weatherproof switch cum socket/welding receptacle having IP65 protection of approved makes to be installed on walls, columns, structures, including handling, storage, transportation from store to site of installation, supply & installation of double compression cable glands, suitable lugs & WP/flame proof plugs for sealing all spare entries etc., including connection and termination of all power cables, earthing wire and conduits, etc. complete as per drawings, specifications and direction of the Site Engineer, including the cost of all labour, tools, consumable materials etc. complete in all respect		Please clarify Flameproof or weatherproof	Refer SOR. Weatherproof.
29	SOR	-	9.53	Supplying and laying of the stainless steel SS-304 air terminations, base plate & clamping of down Conductor complete with base plate, concrete coping fixing accessories and clamping with down Conductor	10	Nos. Kindly provide dimension or Drawing	Reference drawing of Air Termination shall be provided.
	SOR	-	9.71	WP JUNCTION BOX			
30	SOR	-	9.72	Supply, erection, installation, testing and commissioning of flameproof & weather proof 240 V, 25A, junction box for providing cable termination, including connection and termination of earthing wire and conduits etc., including supply & installation of double compression cable glands & flame proof plugs for sealing all spare entries complete as per drawings, specifications and direction of the Site Engineer, including the cost of all labour, tools, consumable materials etc., complete in all respect.		Please clarify Flameproof or weatherproof	Weatherproof
	SOR	-	9.80	TERMINATION OF CABLES (LT)			

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31	SOR	-	9.81	End termination and subsequent testing of XLPE insulated single core/ multi core armoured cables of 1.1KV grade, Al/ Cu cable.,including supply of double compression rolled aluminium cable glands, suitable lugs (Al/Cu/Bimetallic)and lugs of all phases & neutral , all labour and consumable materials to make installation complete in all respect. Modification in existing switch board for accomodating the proposed cables. The rate shall include drilling, taping of cable insulation, crimping of lugs to the conductor, connection of the lugs to equipment terminal, supply and fixing of supports & clamps for cables, G.I. nuts, screws, bolts, washers and other necessary hardware, PVC tape of required grade for taping, making cable entries dust and vermin proof, earthing etc. as per instruction of manufacturer, approved drawings, specifications and directions of engineer-in-charge.		We will consider al lugs for al cable & Cu. Lugs for copper cable. - Please Confirm	Noted. However, bimetallic lugs shall be provided, as required.
	SOR	-	10.13	PUBLIC ADDRESS SYSTEM			
32	SOR	-	10.14	Design, engineering, manufacture, procurement of materials and bought out components, assembly at shop, inspection, testing at manufacturer's works, packing, delivery at site,Unloading, Handling, Storage, transportaion within site, Assembly and Erection,testing, Commissioning & guarantee test for final acceptance of Public Address System of the following, including supply of commissioning spares, special tools and tackles, all required installation material ,& Testing and commissioning at site ,documentation as per the enclosed Technical specification and other codes and standards attached or referred. Note:Installation & Commissioing shall be executed by PA system OEM.		Please provide approved vendor list	Vendor List for PA System shall be provided.
33	SOR	-	10.31	Supply,Installation, testing and commissioning of 240V room lighting boards along with required wiring (concealed in PVC conduit / on wall) having following features:-		Please provide approved vendor list	Reputed make. Shall be finalised during detailed engineering.
34	SOR		10.32	1 no. Switch & Socket for 6 / 16 Amp 2 nos. 6 Amp switches with regulators for ceiling Fan 2 nos. 6 Amp switches for lighting	50	Nos.	Bidder's query is not available.
35	SOR		10.33	1 no. Switch & Socket for 6 / 16 Amp 5 nos. 6 Amp switches for lighting	15	Nos.	Bidder's query is not available.
36	SOR		10.34	1 no. Switch & Socket for 6 / 16 Amp	70	Nos.	Bidder's query is not available.

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37	SOR		11.29	DRY TYPE LIGHTING TRANSFORMER			Please provide approved vendor list Refer Vendor List for Auxiliary Supply Transformers
38	SOR		11.30	Supply, storage at site, Transportation from store to site of installation, Handling, Installation, Testing and Commissioning of Dry Type Lighting Transformers including power and control cable termination, fabrication of base foundation, placing in fabrication of base foundation channel, position on MS base channel/flat, assembly of all accessories, supply & fixing of required no. & size of double compression nickelplated brass/rolled Al cable glands & suitable lugs (Aluminium/copper/Bi metallic), connection and termination of all power and control cables all labour and material complete as per drawings/specification and direction of the lighting transformer manufacturer with all accessories, as specified in Technical Specification PC183-TS-0829			Bidder's query is not available.
39	SOR		11.31	300 KVA, 415/433 V	2	Nos.	Bidder's query is not available.
40	SOR		11.32	60 KVA, 415/433 V	2	Nos.	Bidder's query is not available.
41	SOR		11.33	11 kV PANEL : Supply, Handling, Installation, Testing and Commissioning of Incoming cum Outgoing 11kV 3Ph 50Hz 31.5kA 1250 A VCB Panel complete with metering and protection system free standing floor mounting cubical type as per SLD & Specification Sheet and Technical specification - Electrical System (Doc No. PC183-TS-0805) and SLD No. PC183-7411-0985E including transportation from owner's stores, dressing of foundation, placing in position on MS base channel/flat, assembly of all accessories supplied loose, all labour and material complete as per drawings/specification and direction of the manufacturer.	2	Nos.	Please provide approved vendor list Vendor List for PA System shall be provided.
42	SOR		12.00	SECTION A : INSTRUMENT WORKS (SUPPLY)			Kindly provide hook up drawing as mention in BOQ : Hook up drawing shall be provided during detail engineering.
43	SOR		12.15	Supply of Intelligent video operation, control, management, recording, processing software & Advanced Analytics Software for Perimeter Surveillance as per specifications and instructions of Engineer in charge. This shall include 128 camera recording license and 128 viewing license per site.	1	LOT	Please provide quantity in nos / mtr wherever no. of things or the whole of group is required. Lot word is appropriately mentioned

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TENDER NO : PNP/PC-183/E/8003/NCB

SL. NO.	REFERENCE OF BIDDING DOCUMENT					BIDDER'S QUERY	PDIL'S REPLY	
	SEC. NO.	Page No.	Clause No.	Subject				
44	SOR		12.16	Supply of all erection and installation material like Industrial grade layer ethernet Switch . OFC accessories like 12/24 port LIU, splice trays, loaded adaptor and blank plates, UTP and optical patch cords, pigtailed, FRP junction box, FRP cable trays, FRP canopy ,steel structure for installation , Octagonal pole (10/8/6 meter) power supply , media convertor, armoured power cables , communication cable ,12 core single mode steel armoured optical fibre cable etc. in all respect as per specifications and instructions of Engineer in charge. Its bidder responsibility to consider BOQ as per best engineering practice and complete in all respect to full fill tender specification mentioned elsewhere .	1	LOT	Please provide quantity in nos / mtr	wherever no. of things or the whole of group is required. Lot word is appropriately mentioned
45	SOR		13.00	EPBAX exchange with 200 extensions lines and all the equipment shall conform with all relevant and the latest edition of Indian, International, OISD and CCITT/ ITU standards using field proven microprocessor based design techniques for all processing and control functions. The exchange shall be based on a robust, reliable, virus protected, IP based platform for connecting IP phones, Digital phones as well as Analog extensions as specified in technical specification	1	LOT	We will quote in Nos instead of Lot	wherever no. of things or the whole of group is required. Lot word is appropriately mentioned
46	SOR		17.22	All SS mounting & installation material and other items to complete above cable tray laying ,	1	Lot	Please provide detailed specs & dimensions or Drawing for mounting arrangement We will quote in kg instead of Lot	wherever no. of things or the whole of group is required. Lot word is appropriately mentioned
	ITB		5(I)	Documents to be submitted for Compliance to BEC				
	ITB			BID EVALUATION CRITERIA (BEC) & EVALUATION METHODOLOGY				
47	BEC & EVALUATION METHODOLOGY		1.1	Similar Works			We are keen to participate in the above subjected tender Towards technical criteria as per clause 1.1 The bidder must have completed "Similar work", during the last Seven (07) years reckoned from the original bid opening date Further we have a project experience P&G Hyderabad Project of executed value 25.5 Cr in the year 2015 .We would like to request if completion time for similar work can be considered as 10years instead of 07 years.	No change, Shall be as per NIT.
48	BEC & EVALUATION METHODOLOGY		Notes for 1.1 above:Clause II	Completion Certificate			We have the Completion certificate from the Main Contractor M+W High Tech and not of the End User(P&G) Kindly approve the same as we can participate in the Bid	Please submit all required document as per Claus 5 (i) of Section-II.

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49	SOR	987 of 1063	1.10	Transformers 1.12 2000 MVA , 11/0.433 kV, ONAN, Dyn11, 3 phase, 50 Hz, Oil immersed type transformer. 1.13 1600 MVA , 11/0.433 kV, ONAN, Dyn11, 3 phase, 50 Hz, Oil immersed type transformer. 1.14 1250 MVA , 11/0.433 kV, ONAN, Dyn11, 3 phase, 50 Hz, Oil immersed type transformer	Ratings mentioned under Sr.No 1.12, 1.13 and 1.14 are wrong. Rating should be 2000KVA, 1600KVA,1250 KVA instead of MVA. Might be it is typographical error. Kindly confirm. SLD does not indicate the ratings for the transformers. we envisaged that 2000KVA transformer shall be used in SLD. Kindly confirm. Also where this 1600KVA and 1250KVA transformer shall be used since details are not appearing in tender document.	Typographical error. Rating shall be read as KVA in place of MVA. 2000 KVA and 1600 KVA Transformers are planned in other Substation.
50	SOR	008 of 1063	8.15	PCC 415 V, 3 Ph & N, IP54,floor mounted sheet steel enclosed Power Distribution board (PCC) consisting of 2 nos. incoming 2500A ACB Incomer & nos. of outgoing feeders as indicated in attached SLD enclosed with Technical specification.	SLD and BOQ indicate Incomer ACB Rating of 2500A and busduct rating is 3200A. Actual secondary current of transformer is going beyond 2500A for 2MVA transformer so can we use 3200A ACB instead of 2500A. Kindly confirm.	Busduct of rating 3200 A is envisaged for 2000 kVA Transformers. 3200 A PMCC is not in E&I Contractor's scope.
51	SOR	987 of 1063	3.00	HT Capacitor Bank 3.11 Supply of Capacitor Bank alongwith VCB, RVT, series reactor, Control Panel, APFC Relay, HT vacuum contactor, HT Fuse, Relays etc. complete in all respect as per Technical specification - Electrical, Technical Specification - Capacitor (Doc. No. PC183-TS-0822) etc.	BOQ defines the voltage level as 3.3KV and our ICOG panels are of 11KV. Kindly confirm whether to use this capacitor bank since no 3.3KV board are in bidder scope. Kindly confirm	3.3 kV and 11 KV panels are not in E&I Contractor's scope. However, Capacitor Bank as per SOR are in E&I Contractor's scope.
52	SOR	990 of 1063	4.53	Supply of prefabricated ladder type GI cable trays Straight Run Cable Trays 600 mm wide 450 mm wide 300 mm wide 150 mm wide	Kindly confirm the thickness and height for the cable trays to be considered since same is not appearing in the specifications.	Refer PDS attached. Height 100 mm, Thickness 3 mm.
53	SOR	07/8 of 1063	8.13 8.14	415 V, 3 Ph & N, IP54 floor mounted sheet steel enclosed Main Lighting Distribution Board (MLDB) consisting of 2 nos. incoming 250 A MCCB incomer with 200/1 CT, 250A contactor, MFM, voltmeter, VSS & RYB indications & 5 nos. 63 A TPN RCCB outgoing feeders on indoor bus and 4 nos. 125A TPN RCCB & 3 nos. 63A TPN RCCB outgoing feeders on outdoor bus with Photocell controlled (125A contactor with MCCB) as indicated in attached SLD enclosed with Technical specification	We are not finding any SLD for MLDB so kindly forward the same.	SLD shall be provided.
54	SOR	037 of 1063	12.12	CCTV System- 1 LOT	In BOQ CCTV camera quantity is defined but cables ,accessories and JB quantities are not defined. To calculate the accessories need the location of cameras. Kindly shared the location which will help us for calculation of accessories	This Clause is under review.

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55	SOR	038 of 106	13.00	EPBAX System	BOQ calls for IP based telephone system but the Sr.No 13.14 & 13.15 indicate the telephone cables . If system is IP based then no need of Telephone cable . Need FO cable and Cat-6 Cable. Kindly confirm for which purpose this cable is used since there are no analoge telephones are used. Kindly confirm on same.	This Clause is under review.
56	SOR	040 of 106	17.11	FRP Cable tray 17.11 FRP CableTray (Perforated) with flat Cover , 2500 x 600 x 150 mm,4mm thk 17.12 FRP CableTray (Perforated) with Cover 2500 x 300 x 55 mm 4mm thk 17.13 FRP CableTray (Perforated), 2500 x 100 x 55 mm.4mm thk 17.14 FRP CableTray (Perforated), 2500 x 50 x 55 mm.4mm thk	For FRP cable tray height of cable trays will vary with OEM. Some of the OEMs are offering height as 25mm for 50 mm cable tray. For 100 mm to 300 mm they are offering height as 50 mm instead of 55mm. For 600 mm they are offering height as 100mm. Kindly confirm what to do in such scnerio.	Approved make of cable tray attached with Vendor list shall be followed.Slight variation of Height can be considered.
57	SOR	042 of 106	19.00	SUPPLY of GPS MASTER CLOCK	Kindly confirm where this master clock is used for synchronization since we are not providing any PLC/DCS System.	GPS Master clock is for synchronisation
58	General				We envisaged that the Instruments/Equipments which are free issue for erection shall contains all accessories along with it. Accessories means manifold, tees, impulse pipes, Pipe fittings, respective flanges, gaskets, thermowells, glands etc. Bidder will do the erection for free issue material based on the installation drawings. consumable likes nut, bolts, clamps, cable tie, welding rods etc shall be in bidder scope. Kindly confirm our understanding is correct?	Bidder understanding is correct.
59	Tendernotice_1(3).pdf	049 of 106	1.8	1.0 SCOPE 1.8 All connection of numerical relays to Ethernet / Network Switch and looping of MFMs inside the switchboards and Network / Ethernet Switches, as required, for connection / wiring from individual switchboards up to the respective Substation ECMS cabinets and Ethernet / FO cables between the switchboards shall be in Contractor s' scope. However, wiring / connection of Ethernet / FO Cables in I/O Racks shall be in EDS Contractor's scope.	Bidder scope is limited to supply of ICOG panel,PCC and various PDBs & MLDBs. The incoming an outgoing feeder above certain rating is having MFMs. The incomer may having MFM and Relays. We understand that the internal communication cabling between MFM and relay is in bidder scope but further laying of cables upto substation PLC/DCS is not in bidder scope. Kindly confirm our understanding is correct?	Cabling as required shall be in E&I Contractor's scope.
60	Section-V SCC	8 of 32	6	Availability of water & power at site is very limited. Contractor shall have to make his own arrangements for Construction work.	Bidder request to provided provide water and power free of cost for construction work.	Water & Power shall be provided on chargeable basis.
61	Section-V SCC	23 of 32	40.1	Mobilization Advance: Not Applicable	Bidder request to provided 10% of the total contract value as Mobilization Advance.	Not acceptable, same shall be as per NIT.

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62	Section-V SCC	24 of 32	40.2 (B)	B) ELECTRICAL / INSTRUMENTATION WORK i) for Supply Items	Bidder request to amend payment terms for supply items as below: • 10% as advance on submission of BG of equivalent amount of supply contract. • 75% upon receipt of material at site and acceptance of equipment/materials • 5% after completion of the erection • 5 % after Inspection and Testing • Balance 5% (Retention Money) shall be released along with final bill	Not acceptable, same shall be as per NIT.
63	Section-IV GCC	23 of 68	27	Price reduction schedule: Time is the essence of the CONTRACT. In case the CONTRACTOR fails to complete the WORK within the stipulated period, then, unless such failure is due to Force Majeure as defined in Clause 26 here above or due to EMPLOYER's defaults, the Total Contract price shall be reduced by ½ % of the total Contract Price per complete week of delay or part thereof subject to a maximum of 5 % of the Total Contract Price, by way of reduction in price for delay and not as penalty.	We understand that this LD is applicable on account of delay in execution of project. You know this package is basically comprises of Supply , Installation and Integration of system. It would be very difficult to establish the completion of project wrt to tender requirement. Hence Bidder request to customer to define the meaning of Completion of work. Moreover, LD value is significantly high portioned in the tender, that too on the total contract value. Bidder request to revisit the LD and imposed on the services portion only limited to 5% of Service portion Value.	1) Completion of work shall be define as "performing the specified works as stipulated in the Contract". 2) No change in PRS, same shall be as per NIT
64	Section-VII	986 of 1065		SCHEDULE OF RATES NOTE : Quantities mentioned in the Schedule of Rates are indicative and not exhaustive in nature. Payment shall be made as per actual quantity used/certified at site by Owner's Engineer-in-charge. Quantities indicated in Schedule of Rates are approximate and subject to variation on either side. The quantity of individual item may be deleted. Contractor shall not be entitled for any compensation on this account and the quoted rates shall hold good for such quantity variations etc. Payments on bills shall, however, be made on actual measurements of quantities of work done as per approved drawings. Goods & Services Tax (GST) is applicable @ 18% on the quoted rates (being Works Contract)	Bidder apprised that the quantity provided in Schedule of Rates is based on design and Engineering done by PDIL/ TFL. Please revisit the clause for payment on bill based on the actual quantity utilized by the project . Bidder has to estimate the cost based on the SOR quantity provided in the tender and will also supply accordingly to the site. In any case if supplied quantity has not been finished, bidder is liable to take complete supply cost as per SOR. Bidder may agree to accept the erection cost based on pro rata based on the utilized quantity. Bidder, therefore request to providea provision for adjustment of quantity variation +/- 20% on supply items and allow to compensate Bidder on the schedule quote rate.	No change, Shall be as per NIT. Bidder shall take prior confiration before placing of order.
65	General	General	General	General	You know that at current situation market are very volatile and supplier are not offering validity of their price . Hence, Bidder request to provide provision of Price Adjustment for this contract.	Not acceptable.
66	Schedule Of Rate	987 of 1065	1.12	2000 MVA, 11/0.433 kV, ONAN, Dyn11, 3 phase, 50 Hz, Oil immersed type transformer	Bidder understanding is that rating of transformer is 2000kVA. Please confirm.	Typographical error. Rating shall be read as KVA in place of MVA.
67	Schedule Of Rate	987 of 1065	1.13	1600 MVA, 11/0.433 kV, ONAN, Dyn11, 3 phase, 50 Hz, Oil immersed type transformer	Bidder understanding is that rating of transformer is 1600kVA. Please confirm.	Typographical error. Rating shall be read as KVA in place of MVA.

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68	Schedule Of Rate	987 of 1065	1.14	1250 MVA, 11/0.433 kV, ONAN, Dyn11, 3 phase, 50 Hz, Oil immersed type transformer	Bidder understanding is that rating of transformer is 1250kVA. Please confirm.	Typographical error. Rating shall be read as KVA in place of MVA.
69	Schedule Of Rate	989 of 1065	4.51	Supply of 6 Fiber multi mode FO Cable suitable for relay to relay distance of approx 2 km	Qty mentioned as 600Mtr. While in description it is 2KM. please clarify.	Qty is indicative. Same shall as per actual requirement.
70	Schedule Of Rate	1000 of 1065	7.23	4580 Ltrs. approx Oil.	Qty mentioned as 100000 Ltr. Where as in description it is mentioned as 4580 Ltr. Please clarify.	Typographical error. 4580 Ltrs shall be read as "Transformer Oil".
71	PC183/E/8003/SecVI-2.0	349 of 1065	1.9	The scope shall also include obtaining all required statutory approvals from all statutory bodies. Contractor shall carry out all modifications/alterations required by statutory bodies.	Since, equipment design is not in bidder's scope. We request owner to consider statutory clearance in their scope.	NIT shall prevail.
72	PC183-TS-0803	474 of 1065	7.19	Nitrogen injection fire prevention and extinguishing system	Item not found in SOR. Please clarify.	NIFPES is not envisaged presently.
73	BOQ_782555	26/38	14.19, 14.20, 14.21	...SEAMLESS TUBE... ...SEAMLESS TUBE... ...SEAMLESS TUBE...	Unit of Measurement for these line items are mentioned as "nos". Please clarify or provide quantity in "meters".	Unit of measurement shall be in mtr for mentioned items
74	BOQ_782555	27/38	17.16, 17.17, 17.20, 17.21	FRP Inside 90 Deg Vertical Bend with Cover.... FRP Outside 90 Deg Vertical Bend with Cover.... FRP Horizontal Cross fitting with Cover.... Reducer 600 to 300	In the BOQ, Quantity has been mentioned as 28.8 & 1.2, but the quantity cannot be in decimals for these items. Please confirm the quantity.	These are 28 & 12 qty. Kindly consider the same
75	BOQ_782555	31/38	21.62	Receiving & shifting of PH & Conductivity Analyzer its accessories from store/any other place inside OWNER campus & transport to work site. Fixing of PH & Conductivity and other Analyzers with all accessories on at any heigh after taking proper clearance.	Bidder understands that Supply of these pH, Conductivity, O2, CO analysers& control Valves etc. are not to be supplied by Bidder and shall be free issue by Owner. Associated Accessories for the same shall be free issue by the Owner. Pls confirm.	The job is inclusive of supply of all erection materials, grouting material (cement, concrete, sand etc.) and consumables. Supply of Instrument is not in bidders scoe
76	BOQ_782555	36/38	25.50	AIR DISTRIBUTION PORT (AS PER ATTACHED DWNG)	Please provide the drawing.	Drawing shall be provided during detail engineering
77	BOQ_782555	23/38	10.26and interface and seamless integration with other PA system of plant.	Bidder understands this clause means to provide necessary parameters/ports in our system for integration with Other existing PA systems. The Coordination with other PA system will be done by Owner. Please confirm.	Interface and seamless Integration with other PA system of plant shall be in E&I Contractor's scope.
78	TECHNICAL SPECIFICATION & SCOPE - INSTRUMENTATION WORKS	709/ 1065	5.7.8	Interface with other third party specification including all hardware and software like CCTV system , EPBAX system , PLC system is also in bidder's scope .	Bidder understands that the Interfacing shall be done by Owner as there are multiple parties involved. PLC supply is not in Bidders scope. Please confirm.	Under review.
79	TECHNICAL SPECIFICATION & SCOPE - INSTRUMENTATION WORKS	719/ 1065	12.1	Tools and Tackles	Bidder understands that these Items are in scope of Supply.	The Bidder shall furnish complete information regarding tools, tackles and testing equipment that will be deployed for the job. These tools and Tackles are not in scope of supply.

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80	TECHNICAL SPECIFICATION & SCOPE - INSTRUMENTATION WORKS	739/1065	6.14.13	Separate Centralised PA System of entire fertiliser complex shall be provided Contractor. Hook-up of PA System of Other Plant of Fertilizer Complex with Centralised PA System shall be in Contractor's scope. All interfacing equipment as well as cabling required for hook-up shall be in scope.	Bidder understands this clause means to provide necessary parameters/ports in our system for integration with Other existing PA systems. The Coordination with other PA system will be done by Owner. Please confirm. If not please provide specifications, quantities, distances and interface protocols for the consideration in BOQ for the same.	Interface and seamless Integration with other PA system of plant shall be in E&I Contractor's scope. Details of other PA System shall be provided during detailed engineering.
81	TECHNICAL SPECIFICATION & SCOPE - INSTRUMENTATION WORKS	702/1065	4.6.49	Additional Work Where requested by PDIL/TFL /Engineer-in-Charge or his Authorized representatives, all or any of the works not detailed shall also be executed	This clause is not clear. Please confirm this clause is relevant only to "all or any of the works" related to Instrument Erection only.	On the request of PDIL/TFL /Engineer-in-Charge or his Authorized representatives, any works which are not detailed shall also be executed
82	TECHNICAL SPECIFICATION & SCOPE - INSTRUMENTATION WORKS	701/1065	4.6.35	Whenever stand pipe is to be installed for level installation the following requirements are mandatory –	Bidder understands that these accessories of Standpipe are already in BOQ provided. We have not considered additional accessories for Standpipes separately. Please confirm.	Bidder needs to consider the mandatory items along with stand pipe.
83	BEC & EVALUATION METHODOLOGY	14 of 1065	4	BEC for Start-Ups	Relaxations for Prior Experience & Prior Turnover to the Start-Ups, which is clear Mandate of Government of India's Flagship 'Start-Ups' Policy shall be applicable to this Tender	Shall be as per NIT
84	Instruction To Bidder	96 of 1065	49	BEC for Start- Ups		Shall be as per NIT.
85	7.0	880 of 1065	General Spec.	Cable Tray : Documentation	Technical Documents as mentioned in Sec. 7.0 should not be required "Along with Bid".	Bidder to comply tender requirement
86	7.0	898 of 1065	Engineering Spec.	Pressure & Differential Pressure Transmitter: Documentation		Bidder to comply tender requirement
87	VI-5.0	954-985 of 1065		Vendor List	It should be Removed by following GoI, MoF, DoE, GFR-2017, Rule No. 144 (i) (b)	NIT to be followed. However, Bidder may supply material from other vendor, subject to meeting Technical requirement and prior approval of Owner/ PMC