



SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS
LIMITED, NIT NO : PNP/PC-183/E/206/NCB, Dated- 14 June 2022
AMENDMENT No.: III Dated 07.07.2022



Sl. No.	Reference of Bidding Document				Existing Clause	Amended Clause
	Vol-I/ Sec	Page No.	Clause No.	Subject / Heading		
SECTION VII						
PROJECT DESCRIPTION & SCOPE OF WORK						
1	SEC-VII			Schedule of Rates / BOQ	Schedule of Rates / BOQ	Revised Schedule of Rates / BOQ (Rev1) is attached. Bidder to quote as per latest BOQ (Rev.1) uploaded in CPP Portal.

Joshi
07/07/2022
(Project Manager)

Item Rate BoQ

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNPM/PC-183/E/206/NCB

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1	CIVIL AND STRUCTURAL WORK (PART- I)							
2.0	EARTHWORK AND DISPOSAL							
2.01	Foundation stripping for Ash Dyke - Stripping and grading for foundation of dyke, road works in all types of soil including clearing jungle, uprooting of rank vegetation, grass, bushes, wood, numbering of trees, cutting, removal of slush, organic materials and removal of trees and saplings of girth up to 30 cms including cutting of trunks and branches, removal of roots/stumps/spreads including removal of stumps and roots of trees already cut, sorting out serviceable/ unserviceable wood/materials, filling of root hollows, dewatering (if required) etc. wherever applicable with suitable earth as per specification loading, transporting, unloading, disposal of unserviceable wood / materials and all rubbish at a place or different places as per the instructions of the Engineer In-Charge.	14000.00	CuM		0.00	0.00	0.00	INR Zero Only
2.02	Foundation preparation of Ash Dyke - Preparation of foundation on earth/rock bed including compaction of foundation with minimum 6 passes of Vibratory Rollers of min. 10 tonne capacity including cost of labour, equipment, material etc. and all other specified activities complete as per specification, drawings and as directed by the Engineer.	35000.00	CuM		0.00	0.00	0.00	INR Zero Only

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2.03	Earthwork in excavation in foundations of dyke , cut-off-trench, water escape structure, decantation well, sumps, spillways, rock toe, toe drain, panel walls, kerb walls, slope drains, trench for pipe laying, nallah diversion, roads, earthen trench, cross drainage works, buildings, footings, columns, plinth beams, walls, machine/ equipment foundations, isolated pits, pavements, trenches for pipelines /cables, pipe sleepers etc., to the required levels and grades in both dry and wet conditions, including dressing of sides and ramming of bottoms, getting out excavated earth with lift upto 1.5 M and disposal of surplus excavated materials within plant battery limit including stacking, levelling and dressing etc., complete as per direction of Engineer-in-Charge(E.I.C.) in all kinds of soils as defined in IS: 1200 including providing temporary supports to all service lines such as overhead and underground water, sewage and drain pipes, cables etc. and shoring and strutting wherever necessary, complete in all respects as per direction of Engineer-in-Charge.	20800.00	CuM		0.00	0.00	0.00	INR Zero Only
2.04	Same as Item No.2.03, but lift from 1.5 M to 3.0 M.	3000.00	CuM		0.00	0.00	0.00	INR Zero Only
2.05	Same as Item No. 2.03, but lift from 3.0 M to 4.5 M	1750.00	CuM		0.00	0.00	0.00	INR Zero Only
2.06	Same as Item No.2.03, but lift from 4.5 M to 6.0 M	250.00	CuM		0.00	0.00	0.00	INR Zero Only

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2.07	Cut off trench for Dyke - Supplying and forming / filling in layers using approved quality of impervious clayey soil (permeability not more than 1X10-6 cm per second) naturally available or prepared by blending the soil, with minimum 4 percent bentonite (by volume) to achieve a permeability not more than 1X10-6 cm per second, using soil obtained from within the ash pond area or from borrow area arranged by the contractor, including all preparatory works in borrow area, excavation, loading, transporting, unloading, mixing with bentonite, laying in layers not exceeding 30 cm compacted thickness all leads & lifts breaking clods, watering, compaction to achieve a dry density of not less than 98 percent of maximum dry density (Standard Proctor) with specified rollers or any other approved mechanical means etc, with all incidental charges, cost of labour equipment, materials, etc. complete as per specification ,drawings and as directed by the Engineer-In-Charge: (a) With bentonite blended soil (with soil obtained from excavation of cut off trench)	6000.00	CuM		0.00	0.00	0.00	INR Zero Only
2.08	Formation of Dyke - Formation of dyke, road embankment using approved materials including the preparation of borrow area, stripping, watering of borrow area, excavation of approved quality of material from borrow area, using poclains or any other mechanical means, loading, unloading, transporting by dumpers, trucks etc., surface watering and dewatering, including construction of cofferdams wherever required, depositing the fill material on the dyke, spreading by dozers or grader in layers not exceeding 30 cm in compacted thickness for forming the embankment with all leads, lifts, breaking clods, watering, compaction with min. 10 tonne capacity vibratory rollers to achieve a dry density not less than 95% of maximum dry density (Standard Proctor) forming extra width on edges, trimming of slopes and slope compaction with dozers or slope compactors to obtain the section as per construction drawings, with all incidental charges, cost of labour, equipment, materials etc. complete as per specifications, drawings and as directed by the Engineer. i) With earth supplied from borrow areas arranged by the Contractor.	1500.00	CuM		0.00	0.00	0.00	INR Zero Only

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2.09	Formation of Dyke - Formation of dyke-roads using approved materials from stock piling, loading, unloading, transporting by dumpers, trucks etc. surface watering and dewatering as per requirement , depositing the fill material on the dyke, spreading in layers not exceeding 30 cm in compacted thickness for forming the embankment with all leads, lifts, breaking clods, watering, compaction with min 10 tonne capacity vibratory rollers or pneumatic rubber tyred rollers to achieve a dry density not less than 95% of maximum dry density (Standard Proctor) forming extra width on edges, trimming of slopes and slope compaction with dozers or slope compactors to obtain the section as per construction drawings, with all incidental charges, cost of labour, equipment, materials, etc. complete as per specification, drawings and as directed by the Engineer-In-Charge: i) With use of available good earth	50000.00	CuM		0.00	0.00	0.00	INR Zero Only
2.10	Sand Works- Providing and laying graded coarse sand satisfying filter criteria, for sand blanket, sand chimney, sand filter around rock toe and rip rap including cost and conveyance of materials from the approved sources, laying it in position in layers not exceeding 30 cm in compacted thickness, watering, compaction etc. with all labour, materials, equipment, with all leads and lifts etc., complete as per specifications & drawings and as directed by the Engineer.	100.00	CuM		0.00	0.00	0.00	INR Zero Only
2.11	Aggregate filter- Providing and forming graded aggregate filters of specified quality rock and size ranging from 10 mm to 75 mm, satisfying the filter criteria with sand filter around the rock toe and rip rap including cost and conveyance of materials from quarries, placing filter in position, cost of all labour, equipment, all leads and lifts etc. complete as per specifications, drawings and as directed by the Engineer.	25.00	CuM		0.00	0.00	0.00	INR Zero Only

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2.12	Filling with available excavated good earth (excluding rocks / boulders), as approved and directed by Engineer-in-Charge, in trenches, plinth, under floors, sides of foundation, pits of water escape structures, spillways, drains, discharge Channels & culverts etc., at all depths in layers not exceeding 20 cms. in thickness including consolidating and dressing each deposited layer by ramming and watering with lead within plant premises , complete in all respects (compaction under floor with mechanical vibrater / road roller including watering).	8000.00	CuM		0.00	0.00	0.00	INR Zero Only
2.13	Supplying and filling with selected good earth brought from source arranged by Contractor and approved by the Engineer-in-Charge intranches, plinth, under floors, sides of foundation etc., at all depths in layers not exceeding 20 cms. in thickness including consolidating and dressing each deposited layer by ramming and watering (Rate shall include Royalty,Taxes, Octoroi, etc., levied by the local authorities, all transportation, loading and unloading, etc., and nothing extra will be paid on this account including compaction under floor with mechanical vibrater / road roller including watering).	850.00	CuM		0.00	0.00	0.00	INR Zero Only
2.14	Disposal of excavated surplus earth /building rubbish /malba/ coal ash/ disposal of stripped material and similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to municipal approved dumping ground or as approved by Engineer-in-charge, beyond 500 m initial lead, for lead distance upto 5 Km including all lifts involved.	18000.00	CuM		0.00	0.00	0.00	INR Zero Only
2.15	Same as item no.2.14 but for lead distance upto 5-10 Km	150.00	CuM		0.00	0.00	0.00	INR Zero Only
2.16	Same as item no.2.14 but for lead distance upto 10-20 Km	100.00	CuM		0.00	0.00	0.00	INR Zero Only

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2.17	Slope protection works: Rock / Stone Pitching- Providing and forming toe drain, 300mm thick rock toe, rip rap & pitching wherever required with broken rock of specified quality and ranging in size from 100 MM to 300 MM including cost and conveyance of materials from quarries, hand packing it in position over coarse graded aggregate, clearing and disposal of bush, roots and other perishable materials from rock fill, with all leads, lifts, labour, material, equipment etc. complete as per specification, drawings and as directed by the Engineer.	1845.00	CuM		0.00	0.00	0.00	INR Zero Only
2.18	Providing and filling the pipe trench with the soil having permeability not more than 1X10-6 cm per second using clayey soil or soil prepared by blending with minimum 4% bentonite so as to achieve the permeability not more than 1X10-6 cm per second, including cost of labour, transport, mixing, lacing in layers, watering, compacting the soil in layers to achieve dry density not less than 100% of maximum dry density (standard proctor) including all leads and lifts, materials complete as per specification, drawings and as directed by the Engineer-In-Charge. a) With bentonite blended soil (with soil obtained from outside pond area)	10.00	CuM		0.00	0.00	0.00	INR Zero Only
3.0	PLAIN CEMENT CONCRETE							
3.01	Providing and laying plain cement concrete, machine mixed and mechanically vibrated in foundations, plinth, under floors, etc., excluding all necessary cost of centring and shuttering : 1:4:8 (1 cement:4 coarsesand: 8 graded stone aggregate 40 mm nominal size).	200.00	CuM		0.00	0.00	0.00	INR Zero Only
3.02	Providing and laying plain cement concrete, machine mixed and mechanically vibrated in foundations, plinth, underfloors, etc., excluding all necessary cost of centring and shuttering: 1:3:6 (1 cement: 3 coarsesand: 6 graded stone aggregate 20mm and below).	355.00	CuM		0.00	0.00	0.00	INR Zero Only

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3.03	Providing and laying plain cement concrete, machine mixed and mechanically vibrated in foundations, plinth, under floors, etc., excluding all necessary cost of centring and shuttering : 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm and below) .	35.00	CuM		0.00	0.00	0.00	INR Zero Only
3.04	Providing and laying plain cement concrete, machine mixed and mechanically vibrated in foundations, plinth, under floors, etc., excluding all necessary cost of centring and shuttering : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm and below) .	25.00	CuM		0.00	0.00	0.00	INR Zero Only
3.05	Providing and laying 50 mm thick damp-proof course with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including the cost of centring and shuttering complete as directed. (Waterproofing compound to be used shall be paid separately).	60.00	SqM		0.00	0.00	0.00	INR Zero Only
3.06	Providing and mixing Waterproofing compound conforming to IS:2645 in plain cement concrete works, cement plaster, R.C.C. works, etc., in proportion to the weight of cement used as recommended by manufacturers, complete as per direction of Engineering-in-Charge.	60.00	Quintal		0.00	0.00	0.00	INR Zero Only
4.0	REINFORCED CEMENT CONCRETE							
4.01	IN FOUNDATION AND PLINTH : Providing and laying reinforced cement concrete of grade M-30 (using 20mm. nominal gauge graded stone aggregate) machine mixed and mechanically vibrated and finished to a fair face but excluding the cost of centring, shuttering and reinforcement in foundation and plinth, for rafts, footings, bases of columns/pedestals/beams, walls, machine and equipment foundations, pile caps, box sections, pipe supports, underground or above ground(chemical storage/ clarifier tanks etc)., complete in all respects as per direction of Engineer-in-Charge.	1935.00	CuM		0.00	0.00	0.00	INR Zero Only
4.02	IN FOUNDATION AND PLINTH: Same as Item No.4.01, but with concrete of grade M-25.	820.00	CuM		0.00	0.00	0.00	INR Zero Only

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4.03	IN SUPERSTRUCTURE: Providing and laying reinforced cement concrete of grade M-25 (using 20 mm. nominal gauge graded stone aggregate), machine mixed, mechanically vibrated and finished to a fair face but excluding the cost of centring, shuttering and reinforcement in superstructure at all heights for columns, pillars, posts, attached pilasters, portals, struts, inclined posts, pedestals for equipments and similar vertical members, etc.,complete in all respects as per direction of Engineer-in-Charge.	1325.00	CuM		0.00	0.00	0.00	INR Zero Only
4.04	IN SUPERSTRUCTURE: Same as Item No.4.03, but in walls of any thickness , shape or size including attached buttresses, pilasters and their caps and bases.	265.00	CuM		0.00	0.00	0.00	INR Zero Only
4.05	IN SUPERSTRUCTURE: Same as Item No. 4.03 , but in lintels, beams, portal beams, brackets, girders, cantilevers, suspended floors, roofs, staircase roofs and their supports, balconies, staircase waist and landing slabs and steps including preparation of top surface and finishing, nosing,etc.	40.00	CuM		0.00	0.00	0.00	INR Zero Only
4.06	INSUPERSTRUCTURE: Same as Item No.4.03 , but in chajja, fins, roof gutters, drop wall not exceeding 15 Cm. in thickness, railing, parapet wall, window sills, etc.	15.00	CuM		0.00	0.00	0.00	INR Zero Only
4.07	IN SUPERSTRUCTURE: Providing, hoisting and fixing precast reinforced cement concrete work including the cost of required centering, shuttering but, excluding cost of reinforcement, with 1:1.5:3 (1 cement :1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). : Trench / draincovers, in foundation, plinth and above.	170.00	CuM		0.00	0.00	0.00	INR Zero Only
5.0	REINFORCEMENT AND EMBEDMENTS:							
5.01	Supplying, cutting, cleaning, straightening, bending, hoisting and placing in position and binding with 18 SWG annealed wire, reinforcement bar of high yield strength Corrosion Resistance Steel with Fe500D properties conforming to IS:1786 with minimum yield strength of 500N/sq, mm for all	435.00	Ton		0.00	0.00	0.00	INR Zero Only

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
5.02	Supplying, fabricating and fixing in position M.S. anchor plates, hooks, insert plates , M.S.flats, M.S. angle inserts and the like including welding M.S. lugs, etc., and embedding in cement concrete / R.C.C. works as per approved drawings complete in all respects and as per direction of Engineer-in-Charge.	5180.00	Kg		0.00	0.00	0.00	INR Zero Only
5.03	Supplying, fabricating and fixing in position M.S. holding down bolts assembly consisting of bolts, heads, nuts, washers etc., and the like including embedding in cement concrete / R.C.C.works as per approved drawings complete in all respects including one coat of approved quality anti-corrosive paint over a coat of approved quality primer. (All materials supply are in contractor's scope.)	1795.00	Kg		0.00	0.00	0.00	INR Zero Only
6.0	SHUTTERING							
6.01	Providing, fabricating, erecting and fixing in position with bolts and nuts, nails and ties, etc., centring and shuttering materials true to line and level, including strutting, propping, staging etc. with necessary bracing in all axes to give a stable assembly including chamfering the corners of columns and beams etc., wherever required including making joints in the shuttering fully leak-proof, i/c. Striking, dismantling and removing the afore said assembly after concreting is over, including all labour and materials complete in all respects and as per direction of Engineer-in-Charge. IN FOUNDATION AND PLINTH : Foundation and plinth in rafts, footings, columns, pedestals, beams, walls, slabs, machine and equipment foundations, pile caps and pipe support foundations, etc.	7185.00	SqM		0.00	0.00	0.00	INR Zero Only
6.02	IN SUPERSTRUCTURE: Columns, pillars, posts, struts, inclined posts, attached anufactu, portals and similar vertical members.	3890.00	SqM		0.00	0.00	0.00	INR Zero Only
6.03	INSUPERSTRUCTURE: Walls of any thickness, height and shape including attached buttresses, anufactu, and their caps and bases, etc.	4680.00	SqM		0.00	0.00	0.00	INR Zero Only
6.04	INSUPERSTRUCTURE: Lintels, beams, portal beams, brackets, girders, cantilever beams, suspended floors, roofs, staircase roofs and their supports, balconies, staircase waist and landing slabs and steps,etc.	850.00	SqM		0.00	0.00	0.00	INR Zero Only
6.05	INSUPERSTRUCTURE: Chajja, vertical and horizontal fins, roof gutters, drop walls, railing, parapet wall, window sills, etc.	345.00	SqM		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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6.06	Providing, fabricating, erecting and fixing in position with bolts and nuts, nails and ties, etc., centring and shuttering materials true to line and level, including strutting, propping, staging etc. with necessary bracing in all axes to give a stable assembly including chamfering the corners of columns and beams etc., wherever required including making joints in the shuttering fully leak-proof, i/c. Striking, dismantling and removing the afore said assembly after concreting is over, including all labour and materials complete in all respects and as per direction of Engineer-in-Charge. IN FOUNDATION AND PLINTH (FOR CIRCULAR WORK) : Foundation and plinth in rafts, footings, columns, pedestals, beams, walls, slabs, machine and equipment foundations, pile caps and pipe support foundations, etc.	250.00	SqM		0.00	0.00	0.00	INR Zero Only
6.07	IN SUPERSTRUCTURE (FOR CIRCULAR WORK): Columns, pillars, posts, struts, inclined posts, attached anufactu, portals and similar vertical members.	250.00	SqM		0.00	0.00	0.00	INR Zero Only
6.08	INSUPERSTRUCTURE (FOR CIRCULAR WORK): Walls of any thickness, height and shape including attached buttresses, anufactu, and their caps and bases, etc.	250.00	SqM		0.00	0.00	0.00	INR Zero Only
6.09	INSUPERSTRUCTURE (FOR CIRCULAR WORK): Lintels, beams, portal beams, brackets, girders, cantilever beams, suspended floors, roofs, staircase roofs and their supports, balconies, staircase waist and landing slabs and steps, etc.	250.00	SqM		0.00	0.00	0.00	INR Zero Only
6.10	INSUPERSTRUCTURE (FOR CIRCULAR WORK): Chajja, vertical and horizontal fins, roof gutters, drop walls, railing, parapet wall, window sills, etc.	250.00	SqM		0.00	0.00	0.00	INR Zero Only
7.0	BRICKWORK							
7.01	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 10 in foundation and plinth in: with Cement mortar 1:6 (1 cement : 6 coarse sand)	50.00	CuM		0.00	0.00	0.00	INR Zero Only
7.02	Providing and constructing Brickwork with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in cement mortar 1 : 6 (1 cement : 6 coarse sand) in walls, etc. at all depths, places and positions including raking out joints, curing, scaffolding etc. complete excluding plastering and painting. Superstructure at all heights.	525.00	CuM		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNPM/PC-183/E/206/NCB

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7.03	Half brick masonry with non modular fly ash bricks of class designation 7.5 in foundations and plinth in cement mortar 1:4.	110.00	SqM		0.00	0.00	0.00	INR Zero Only
7.04	Brick masonry for Ash Dyke- Providing, laying in position brick masonry for brick masonry panel walls on the slopes of ash dyke, toe drains, slope drains, dowel bank etc. in 1:6 (1 Cement : 6 coarse sand) cement sand mortar including all lifts, cost of labour, materials, equipment, mixing, laying, raking joints, curing including transportation and preparation of surface etc. complete as per specifications, drawings and as directed by the Engineer. a) With Burnt Clay bricks (designated class 10 conforming to IS 1077)	20.00	CuM		0.00	0.00	0.00	INR Zero Only
7.05	Dry brick packing- Providing and packing bricks laid flat, moistening with water wherever required, for protection of inside dyke slopes with brick packing within the panel walls (cost of panel walls shall be paid under relevant items) including the cost of labour, materials, transportation all leads and lifts, equipment, etc. complete as per drawings and as directed by the Engineer. a) With Burnt Clay bricks (designated class 10 conforming to IS 1077)	25.00	CuM		0.00	0.00	0.00	INR Zero Only
7.06	Providing, supplying and laying in position 230mm thk. Fly Ash brick work (cement bonded) to be used if approved by Engineer in charge as per specifications. Fly ash conforming to IS 3812 as part replacement of OPC only as approved by the Engineer, in a specified cement mortar 1:5 for Upstream Side Embankment, road side drains, including the cost of all materials, scaffolding, curing, with provision of pipe sleeves, fixing of edge protection angle or groove for drain cover etc as per specification and the direction of Engineer-in-charge.	20.00	CuM		0.00	0.00	0.00	INR Zero Only
8.00	STRUCTURAL STEEL							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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8.01	Supplying, transporting, de-rusting, fabricating, erecting, hoisting and fixing in position with necessary welding and/or bolting with MS bolts conforming to property class 8.8 of IS:1367 at all heights as per approved fabrication drawings of all types of structural steel work in columns, portals, girders, lattice girders, beams, crane girders, M.S rails, monorails, bracings, trusses, purlins, rafters, side runners, sag rods, hand railings, staircase stringers and steps, walkway, toe plates, floor grids, sag rods with M.S. rounds, side walling, conveyor gantries, trestle for pipe and cable racks, gusset plates, etc., either made of rolled steel joists, channels, angles, tees, flats, plates, universal sections or builtup from plates and/or rolled steel sections including necessary site and shop fasteners, complete in all respects as per approved fabrication drawings, standards and direction of Engineer-in-Charge : With providing and applying primer coat, intermediate coats and finish coat after the preparation of surfaces on structural steel work complete in all respects as per technical specifications and direction of Engineer-in-Charge.	510.00	Ton		0.00	0.00	0.00	INR Zero Only
8.02	Supplying, transporting, de-rusting, fabricating, erecting, hoisting and fixing in position structural steel work in cat ladders and cages at all heights including brackets, cleats, plates, rungs, chain, pins, hinges, etc., framed, bolted and/or welded together and fixed in position including necessary plugs and plugging and painting complete in all respects and as per direction of Engineer-in-Charge : With providing and applying primer coat, intermediate coats and finish coat after the preparation of surfaces on structural steel work complete in all respects as per technical specifications and direction of Engineer-in-Charge.	10.00	Ton		0.00	0.00	0.00	INR Zero Only
8.03	Supplying of bolts (from 12 mm. to 52 mm. dia.), nuts, plain and tapper washers for fixing equipments, as per drawings and direction of Engineer-in-Charge : Bolts conforming to property class 4.6 of IS:1367.	15.00	kg		0.00	0.00	0.00	INR Zero Only
8.04	Supplying of bolts (from 12 mm. to 52 mm. dia.), nuts, plain and tapper washers for fixing equipments, as per drawings and direction of Engineer-in-Charge : Bolts conforming to property class 8.8 of IS:1367.	35.00	kg		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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8.05	Supplying, transporting, fabricating as per approved fabrication drawings 25 mm. to 35 mm. thick M.S. grating made out of M.S flats as main members and Tor Steel bars as secondary members, all welded together to form a perfect mesh including getting those grating planks inspected and approved by Client/ Consultant, transporting to site, erecting and fixing in position the segrating planks at all heights with necessary G.I.clips/ G.I.clamps tack welded for making floors, platforms, stair steps, etc., as required at site, providing and applying painting as per drawings and direction of Engineer-in-Charge (The rates shall include cost of G.I. clips/ clamps. The Contractor may procure gratings from grating manufacturer approved by Engineer-in-Charge. The rates shall also include all charges incurred during inspection and testing) : With 86 microns thick hot dip galvanizing coat.	120.00	Ton		0.00	0.00	0.00	INR Zero Only
8.06	Supplying, transporting, de-rusting, cutting and fixing in position at all heights steel work in M.S. chequered plates in floors, steps, landing, covers over trenches, etc., with necessary bolts, nuts, washers, drilling holes, welding, etc., wherever necessary as per drawing including painting complete in all respects and as directed by Engineer-in Charge : Two coats of chlorinated rubber based paint at dry film thickness of 50 microns per coat over two coats of high built zinc phosphate primer compatible to chlorinated rubber based paint at dry film thickness of 50 microns percoat.	35.00	Ton		0.00	0.00	0.00	INR Zero Only

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8.07	Providing and fixing M.S pipe handrailing (medium grade) conforming to IS-1239 consisting of top and middle horizontal rails of 40mm dia. and 32 mm dia. nominal bore respectively, 1050 mm high upright members of 40mm dia. nominal bore at 1500mm maximum distance centre to centre of each member including all joints, bends , elbows, and specials as required and upright members welded or bolted to structural steel work/toe plates or welded to M .S. insert plates with M.S. lugs embedded in R.C.C. works, complete in all respects and as per direction of Engineer-in-Charge. Two coats of chlorinated rubber based paint at dry film thickness of 40 microns per coat over two coats of high built zincphosphate primer compatible to chlorinated rubber based paint at dry film thickness of 25 microns per coat.	35.00	Ton		0.00	0.00	0.00	INR Zero Only
9.0	STEEL AND ALUMINIUM DOORS, WINDOWS AND VENTILATORS							
9.01	Providing, erecting and fixing in position at all heights M.S. rolling shutters rolling shutters up to 10 sq.m. in area with push and pull operation, conforming to IS: 6248 made of 80X1.25 mm M.S.laths, interlocked together through their entire length and joined together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking, including the cost of providing and fixing necessary 27.5 cm long wire springs grade No- 2, M.S., top cover 1.25 mm. Thick and ball bearing, including providing and applying two coats of synthetic enamel paint of approved quality over two coats of red oxide zinc chromate primer conforming to IS: 2074 complete in all respects as per direction of Engineer-in-Charge: Rolling shutters with Mechanical device chain and crank operation	45.00	SqM		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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9.02	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing /paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. Powder coated aluminium (minimum thickness of powder coating 50 micron)	60.00	SqM		0.00	0.00	0.00	INR Zero Only
9.03	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPD M rubber /neoprene gasket required including necessary fittings. Powder coated aluminium (minimum thickness of powder coating 50 micron.	15.00	SqM		0.00	0.00	0.00	INR Zero Only
9.04	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Including aluminium snap beading) :With float glass panes of 4.0 mm thickness	45.00	SqM		0.00	0.00	0.00	INR Zero Only

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9.05	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20mm and 1mm (± 0.1mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic /galvanised M.S. 'U'cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	5.00	SqM		0.00	0.00	0.00	INR Zero Only
10.0	ROOFING							
10.01	Providing and fixing in position at all heights UPVC rain water pipes conforming to BIS :13592 Type A R.C.C. column using plugs and standard holder bat clamps comprising of two semi-circular halves of flat iron and cast iron base screwed on wooden plugs or using clamps welded to structural steel members or M.S. insert plates where pipes are to be fixed on R.C.C. members including all necessary fittings, such as tees, shoes, off-sets, branches, swannecks, elbows, bends, heads, etc. (plate inserts, if any, to be embedded in R.C.C shall be paid separately) :							
10.02	110 mm diameter pipe.	100.00	RM		0.00	0.00	0.00	INR Zero Only
10.03	75 mm diameter pipe.	100.00	RM		0.00	0.00	0.00	INR Zero Only

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Contract No: PNP/PC-183/E/206/NCB

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10.04	Providing & fixing UV stabilised fiber glass reinforced plastic sheet roofing upto any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified. 2mm thick corrugated	10.00	SqM		0.00	0.00	0.00	INR Zero Only
10.05	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete (Refer J-02):							
10.06	Ridges plain (500 – 600 mm)	10.00	Meter		0.00	0.00	0.00	INR Zero Only
10.07	Corrugated Aprons. (Upto 600 mm)	10.00	Meter		0.00	0.00	0.00	INR Zero Only
10.08	Barge board (Upto 300 mm).	10.00	Meter		0.00	0.00	0.00	INR Zero Only
10.09	Gutter. (600 mm over all girth).	10.00	Meter		0.00	0.00	0.00	INR Zero Only
11.0	WATER PROOFING							
11.01	Clearing the roof surface wherever required by manual scrapping / chipping to take out loose mortar, laitance etc. to expose the mother R.C.C roof surface. At the junction between the roof and the vertical face of the parapet wall a fillet 75mm (min.) in radius shall be constructed to receive the waterproofing treatment. In case of RCC parapet walls for taking in the waterproofing treatment a horizontal groove shall be left in the vertical face at the time of construction or made by using electrically operated cutter.	390.00	SqM		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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11.02	Providing and laying water proofing treatment using High solid content, liquid applied Elastomeric Polyurethane Waterproofing Membrane. The two component Solvent free Polyurethane coat shall have the following properties - 1. Solid content ASTM D 2369- ≥ 90% 2. Mixing ratio - 8:1 3. Elongation ASTM D 638 - 700-900% 4. Tensile strength ASTM D 638- 1-2 MPa The coating shall be applied to a minimum thickness of 600 microns (300µX2) thickness with separate wearing course (as per ASTM C 898 & 836) over application of 2 component, solvent free Epoxy Primer of 200 microns with tensile of 20-30 MPa and elongation of 4-5% for smooth surface and act as primer coat at all elevations in vertical and horizontal surface etc including labour, material, equipment handling, preparation of surface, transportation, placing, leveling, curing, testing, etc complete as per specifications, drawing and instruction of the Engineer-in-charge.	390.00	SqM		0.00	0.00	0.00	INR Zero Only
11.03	Providing and laying screed concrete (1:2:4 or as per design) ensuring that the elastomeric coating is not ruptured. A layer of Geo-textile cloth (150 to 200 GSM)to be laid over coated surface as a separating layer between elastomeric coating and screed. The screed concrete is to be laid preferably in a slope of 1in 100 as well as maintaining a thickness of 25mm near the rain water outlet pipe on the entire horizontal ELASTOMERICCOATING applied roof surface . Plastering (in the ratio 1:4 or so) on the entire vertical ELASTOMERIC COATING applied surface. To prevent substantial cracking of screed concrete and plaster, chicken wire mesh / Recron fibre to be used as an added precaution. The total system can also be applied over already laid screed concrete for sloping of original mother RCC roof surface , provided the coating is protected after application as described above, i.e Geo-textile cloth and PCC screed.	390.00	SqM		0.00	0.00	0.00	INR Zero Only
12.0	FLOORS AND BASES:							

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Contract No: PNP/PC-183/E/206/NCB

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12.01	Supplying and laying hard core underfloors including watering, ramming, bliding and well consolidating with broken stone aggregates 90 mm to 45 mm in layers of maximum compacted thickness of 150 mm including filling the voids with smaller stone chips and with blinding materials fine river sand, (Payments hall be made for finished thickness of hardcore) Consolidation by road roller.	700.00	CuM		0.00	0.00	0.00	INR Zero Only
12.02	52 mm thick cement concrete flooring with concrete hardener topping , under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but including the cost of nosing of steps etc. complete.	820.00	SqM		0.00	0.00	0.00	INR Zero Only
12.03	Providing and laying reinforced cement concrete of grade M-20 in pavement floors in plant areas (using 20 mm. nominal gauge graded stone aggregate) machine mixed and mechanically vibrated and finished to a fairface but excluding the cost of centring, shuttering and reinforcement in slabs at ground floor level. Floors are to be cast in the panel of 3 metre x 3metre with broom finish and painting side surfaces with two coats of bitumen paint of approved quality, complete in all respects as per direction of Engineer-in-Charge.	240.00	CuM		0.00	0.00	0.00	INR Zero Only
12.04	Providing, laying and fixing the tiles of approved quality and make in cement mortar 1:3 including 20 mm thick mortar bed, filling joints with cement admixed with matching pigments and cleaning etc. Complete as directed- polished vitrified tiles of min size 600mm X600mm mirror polish 8-10mm thk. Tiles should be first quality full body vitrified tiles of Nitco /Johnson/Kajaria make; Colour and design approved by Engineer-in-charge.	280.00	SqM		0.00	0.00	0.00	INR Zero Only
12.05	Providing and laying non-skid Ceramic glazed floor tiles of size 300x300 mm (thickness to bespecified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make (as per Vendor List) in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cementmortar 1:4 (1Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	250.00	SqM		0.00	0.00	0.00	INR Zero Only

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12.06	Providing and laying in position at all heights 25mm thick Kota stone tiles in flooring and trades over 20 mm (Average) thick base of cementmortar 1:4 (1 cement: 4 coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete.	30.00	SqM		0.00	0.00	0.00	INR Zero Only
12.07	Providing and fixing in position at all heights Kota stone tiles 25 mm thick in risers of steps for skirting/dado laid on 12 mm (Average) thick cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the tiles including rubbing, polishing, etc., complete in all respects.	220.00	SqM		0.00	0.00	0.00	INR Zero Only
13.0	FINISHING							
13.01	Providing at all heights 12 mm thick cement plaster on brickwork, exposed surfaces of RCC lintels, beams, etc., complete in all respects and as directed with cement plaster mix : 1:4 (1 cement: 4 coarse sand)	1245.00	SqM		0.00	0.00	0.00	INR Zero Only
13.02	Providing and laying 12 mm thick plaster in 1:6 (1 Cement : 6 fine sand) cement sand mortar on walls, drains, peripheral drain, steps etc. finished to a smooth finish all complete as per specification and directions of the Engineer	5000.00	SqM		0.00	0.00	0.00	INR Zero Only
13.03	Providing at all heights 15 mm thick cement plaster on roughside of single or half brick walls, etc., complete in all respects and as directed with cement plaster mix :1:4 (1 cement: 4 coarse sand)	1245.00	SqM		0.00	0.00	0.00	INR Zero Only
13.04	Providing at all heights 6mm thick cement plaster to ceiling, etc., complete in all respects and as directed with cement plaster mix: 1:3 (1cement :3finesand).	480.00	SqM		0.00	0.00	0.00	INR Zero Only
13.05	Providing and applying Acrylic Smooth exterior paint of required shade of approved brand n makeon exterior walls (two or more coats New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @2.20kg /10sqm)). The job includes preparation of surface, applying two coat of putty to make good the unevenness of the surfaces including necessary scaffolding etc. complete for all heights. as per and as directed & instructed by engineer-in-charge	915.00	SqM		0.00	0.00	0.00	INR Zero Only

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13.06	Providing and applying distemping with oil bound washable distemper of approved brand and manufacture to give an even shade with good quality acrylic washable distemper (readymade) of approved manufacture's specification. Two or more coats on new work. The job includes preparation of surface, providing and applying manufacture's approved distemperprimer and applying two coat of putty to make good the unevenness of the surfaces including necessary scaffolding etc. complete for all heights. As per and as directed & instructed by engineer-in-charge	1390.00	SqM		0.00	0.00	0.00	INR Zero Only
14.0	SANITARY WORK							
14.01	Providing and fixing oval shape counter top type coloured Vitreous China wash basin of size 630x450 mm of Hindware/cera/parryware/Jaqaar, tato or equivalent incl. The following accessories :Providing and fixing pillar cock of Jaquar or equivalent make all other fittings like CP waste coupling, CP brass bottle trap, CP brass stop cock, tap, as required all connecting arrangement etc. including painting of fittings and brackets, cutting and making good the walls wherever required:	5.00	Each		0.00	0.00	0.00	INR Zero Only
14.02	Providing and fixing coloured vitreous European type water closet with 8-10 ltr flushing cistern of Hindware/cera/parryware or equivalent) with seat and lid ;C.P brass hings and rubber buffers with ;overflow arrangement with specials of standard make and mosquito proof coupling of approved design complete including painting of fitting and brackets cutting and making good the walls and floors wherever required.	2.00	Each		0.00	0.00	0.00	INR Zero Only
14.03	Providing and fixing bevelled edge mirror of superior glass (of approved quality) of 5mm thick of size 1000 x 750 mm of Belgium Glass or equivalent, 6mm wooden ply wood, wooden beads with 3M adhesive around of specified size and Chamfered, fixing with wooden plugs with CP brass crew sand cup washers etc. All complete as per the directions of engineer-In-charge.	5.00	Each		0.00	0.00	0.00	INR Zero Only
14.04	Supplying and fixing white vitreous china flat back large auto flush type gents urinal with concealed censor of Hindware/cera/parryware or equivalent with CP flush valve, CP pipe connections CP wastecoupling CPbrassbottle trap 32mm UPV Cwasteline of required length CP spreader unit and extension pipe all complete as directed.	5.00	Each		0.00	0.00	0.00	INR Zero Only

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14.05	Providing and fixing C.P. brass bibcock (of 15mm nominal bore) of approved quality conforming to IS:8931 : Short body bibcock	2.00	Each		0.00	0.00	0.00	INR Zero Only
14.06	Providing and fixing C.P. Brass stopcock (concealed) of standard design and of approved make conforming to IS:8931.	2.00	Each		0.00	0.00	0.00	INR Zero Only
14.07	Providing and erecting readymade storage tanks of approved manufacturer as per Vendor List and required size for capacity 2500 Lit including connecting necessary supply lines, delivery lines, wash water line and with manhole cover at top of not less than 450mm clear dia, with locking arrangement complete as per drawing and as directed and instructed by Engineer-In-Charge.	3.00	Each		0.00	0.00	0.00	INR Zero Only
14.08	Making soak pit for 50 users, basic details 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. - With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.00	Each		0.00	0.00	0.00	INR Zero Only
14.09	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes, fittings & including all fixtures with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	10.00	R.M.		0.00	0.00	0.00	INR Zero Only
14.10	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes, fittings & including all fixtures with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 25 mm nominal outer dia Pipes	200.00	R.M.		0.00	0.00	0.00	INR Zero Only
14.11	Providing and fixing soil/ waste PVC pipes as required connecting properly with pipe and filling all joints as required at any level (including tees, bends, plain junction, stays & clamps and other fixtures as required complete in all respect. 100 mm dia.	100.00	R.M.		0.00	0.00	0.00	INR Zero Only

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14.12	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	Each		0.00	0.00	0.00	INR Zero Only
14.13	Providing and fixing toilet paper holder C.P. brass of approved make.	5.00	Each		0.00	0.00	0.00	INR Zero Only
14.14	Providing and fixing P.V.C. wastepipe for sink or washbasin including P.V.C. waste fittings complete. Flexible pipe-32 mm dia.	5.00	Each		0.00	0.00	0.00	INR Zero Only
14.15	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	5.00	Each		0.00	0.00	0.00	INR Zero Only
14.16	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 450mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	2.00	Each		0.00	0.00	0.00	INR Zero Only
15.0	MISCELLANEOUS:							
15.01	Providing and laying "SHRINKKOMP- 20" anti-shrinkage grouting in pocket sand base plates of light dynamic machines such as small pump sand compressors as per manufacturer's specifications, complete in all respects as per direction of Engineer-in-Charge.	95.00	CuM		0.00	0.00	0.00	INR Zero Only
15.02	Providing and fixing in position 25 mm thick shalitek board in expansion joints or around machine foundations or in floors with necessary shalitek sealing compound, complete in all respects as per direction of Engineer-in-Charge :	15.00	SqM		0.00	0.00	0.00	INR Zero Only
15.03	Providing and fixing G.I. pipe sleeve including grouting in wall & floor with concrete 1:2:4 (1cement: 2 sand: 4 stone chips 20 mm and down), complete in all respects as per direction of Engineer-in-Charge:	10.00	Kg		0.00	0.00	0.00	INR Zero Only

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15.04	Supplying and filling in under floors, etc., with fine sand at all depths in layers not exceeding 20 cms. in thickness including consolidating and dressing each deposited layer by ramming and watering, etc., complete in all respects as per direction of Engineer-in-Charge	290.00	CuM		0.00	0.00	0.00	INR Zero Only
15.05	Providing and cutting concrete (Rectangle / square) upto 750mm deep using Hilti D-LP 32/ DS-TS32 wall saws or equivalent having diamond saws and central water cooling system for accurate and vibration free cutting. The system should be operated using digital remote control. Suitable & sufficient scaffoldings shall be provided separately for all work that cannot be done safely from ground or other available means of safe support and the payments for this shall be made against respective items. (Approx 20 pieces at different places of plant.)	45.00	SqM		0.00	0.00	0.00	INR Zero Only
15.06	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good thechase with matching concrete, plastering and painting the exposed portion of the clamps complete.	5.00	Each		0.00	0.00	0.00	INR Zero Only
15.07	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. : Acid and alkali resistant tile In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)	77.00	SqM		0.00	0.00	0.00	INR Zero Only
15.08	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. : Acid and alkali resistant tile In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)	10.00	SqM		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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15.09	Providing and fixing in position 12 mm thick bitumen impregnated fibreboard conforming to IS:1838 in expansion joints including sealing the joints at the exposed ends with approved quality sealing compound including application of an approved primer as per manufacturer's specifications and as per direction of the Engineer-in-Charge.	24.00	SqM		0.00	0.00	0.00	INR Zero Only
15.10	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath,parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints withsand and cutting of paver blocks as per required size and pattern, finishing and sweeping extrasand. complete all as per direction of Engineer-in-Charge.: 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	300.00	SqM		0.00	0.00	0.00	INR Zero Only
15.11	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia. 4mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	500.00	R.M.		0.00	0.00	0.00	INR Zero Only

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15.12	Providing, fabricating and fixing in position double leaf gates of any height with one wicket door within the main gate, all made out of structural steel sections such as M.S. Angles, Tees, Channels, Plates, Flats, etc., for all horizontal, vertical and diagonal members, M.S. Gusset plates including providing and fixing in position at all heights hard drawn steel wire fabric mesh of size 75 mm x 25 mm and weight not less than 7.75 kg/sq.m. welded with frames, including providing and fixing necessary lock plate, handles, locking arrangement and other fittings, drilling of holes wherever required, welding etc. including providing necessary hinge plateswelded to insert plates embedded in RCC columns, bolts and nuts for hinge etc. including providing and applying painting, complete in all respects and direction of Engineer-in-Charge: With providing and applying two coats of high build zinc phosphate primer of approved brand and manufacture compatible to chlorinated rubber paint at a dry film thickness of 50 micron per coat on structural steel work after preparation of surfaces including providing and applying two coats of chlorinated rubber based paint of approved colour, brand and manufacture at a dry film thickness of 50 microns per coat	10.00	Ton		0.00	0.00	0.00	INR Zero Only
15.13	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	150.00	Litre		0.00	0.00	0.00	INR Zero Only
15.14	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300mm including excavation channel along the wall & rodding etc. complete: With Chlorpyriphos/ Lindane E.C.20% with 1% concentration	300.00	R.M.		0.00	0.00	0.00	INR Zero Only
15.15	RELEVANT GEO-TECHNICAL TESTS FOR SOIL INVESTIGATION. Note: Minimum Three Numbers of bore holes up to 20-22 m depths and other relevant soil tests such as 2 no.'s of Plate load test, as per design requirement of Ash Dyke, Slurry Pump house. Report shall be submitted to the Owner/PMC for information.	1.00	LS		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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15.16	Turfing- Slope protection with turf sods including collection, conveyance and providing 50 mm thick grass turf sods, ramming and watering for three months or till the grass establishes itself uniformly whichever is later, with all leads, lifts, watering charges, etc. complete as per specifications, drawings and as directed by the Engineer.	11000.00	SqM		0.00	0.00	0.00	INR Zero Only
15.17	Water Bound Macadam Road (Sub-base course)- Providing and laying of sub-base course (water bound macadam) each layers of 100mm finished thickness with 90-40 mm graded aggregate as per specifications, true to camber and slope, including full compensation for furnishing all materials to be incorporated in the work including all lifts and leads, preparation of sub grade, spreading, rolling, providing and applying screenings, sprinkling and grouting, application of binding material, setting and drying, all labour, tools, equipments and incidentals necessary to complete the work as per drawings, specifications and the directions of the Engineer. a) road over embankment top and inspection road along periphery of dyke	1615.00	CuM		0.00	0.00	0.00	INR Zero Only
15.18	Water Bound Macadam Road (Base course)- Providing and laying of base course (water bound macadam) in two layers of 75 mm finished thickness each with 63-40mm and 50-20mm graded stone aggregate, true to camber and slope including full compensation furnishing all materials to be incorporated in the work including all leads and lifts, preparation of sub-base course, spreading, rolling, providing and applying screening sprinkling and grouting, application of binding material setting, and drying, all labour, tools, equipments and incidentals necessary to complete the work as per drawings, specifications and directions of the Engineer. a) road over embankment top and inspection road along periphery of dyke	1200.00	CuM		0.00	0.00	0.00	INR Zero Only

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15.19	Providing and laying of Premix Bituminous Macadam Base Course, with stone aggregates of quality, size and grading as specified in IRC, laid in layers each of 100 mm compacted finished thickness, true to camber and slope, including tack coat, Bitumen of grad 80/100 @4% by weight of total mix, hot mixing of stone aggregate and bitumen in hot mix plant, handling transportation of mixed material, for all leads and lifts, laying with paver, spreading, rolling with road roller of 8-10 ton capacity to achieve required compaction and density, finishing including all labour, material equipment, all complete, as per specifications, drawing and instructions of the Engineer. a) road over embankment top and inspection road along periphery of dyke	800.00	CuM		0.00	0.00	0.00	INR Zero Only
15.20	Providing and laying 6mm thick seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete. (a) road over embankment top and inspection road along periphery of dyke	8000.00	SqM		0.00	0.00	0.00	INR Zero Only
15.21	RCC Hume Pipes- Providing, laying and fixing in position cement concrete pipes, conforming to IS:458 and laying as per IS:783 (excluding cost of excavation/cutting trench, backfilling the trench with specified material & RCC encasement to be measured & paid separately), placing the pipe in position, jointing materials, cost of jointing pipes, transportation, labour, materials, equipments, all leads and lifts, dewatering etc. complete as per specification, drawing and as directed by the Engineer.							
15.22	a) 1000 mm internal dia NP-4 Hume Pipe	100.00	R.M.		0.00	0.00	0.00	INR Zero Only
15.23	b) 600 mm internal dia NP-3 Hume Pipe	50.00	R.M.		0.00	0.00	0.00	INR Zero Only
15.24	c) 450 mm internal dia NP-3 Hume Pipe	50.00	R.M.		0.00	0.00	0.00	INR Zero Only

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15.25	Cut-off collars- Providing cut-off collars around the RCC Hume pipe & MS Pipe with bentonite-soil mix of 1:1 proportion by volume, including the cost of the labour, materials, equipments, transportation, excavating the trenches, disposing/stock piling the excavated materials, mixing the bentonite and soil in dry form, filling and compaction of material in layers of 200 mm thickness, providing temporary protective layers of polyethylene sheets, including all leads and lifts etc. complete as per specifications, drawings and as directed by the Engineer.	30.00	CuM		0.00	0.00	0.00	INR Zero Only
15.26	Diaphragm filters- Providing diaphragm filters around RCC hume pipe & MS pipe with graded coarse sand satisfying filter criteria, including the cost of materials, labour, equipment, transportation, excavating the trenches, disposal of excavated material, laying the fill material in layers, watering, compaction, providing temporary protective layers of polyethylene sheets, including all leads and lifts etc., complete as per specifications, drawings and as directed by the Engineer.	30.00	CuM		0.00	0.00	0.00	INR Zero Only
15.27	Precast cement concrete- Providing and laying all types of pre-cast cement concrete units (reinforced) of grade M 25, in opening of water escape structure, at any RCC structure etc. at all levels, with graded stone chips (20 / 12.5 / 10 mm nominal size), including all labour, material, equipment, handling, transportation, formwork, batching, mixing, casting, compacting, curing, testing, rendering, exposed surface with cement sand mortar 1:3, handling, storing, trans-orting, for all leads and lifts, erection, setting in position with cement sand mortar 1:3, all complete, as per specifications, drawings and instructions of the Engineer, but excluding reinforcement work.	25.00	CuM		0.00	0.00	0.00	INR Zero Only

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15.28	Impervious Liner- Supplying, mixing & spreading of 0.3 m thick compacted to 90% of maximum dry density (standard proctor) with blended soil using soil obtained from within the ash pond area or from borrow area arranged by the contractor and prepared by blending with minimum 4% bentonite (by volume) to achieve a permeability not more than 1X10-6 cm/sec including striping, grading, watering wherever required, subgrade preparation with 2 passes of 8 to 10 tonne capacity roller, transporting unloading, mixing with bentonite all leads & lifts, breaking clods, watering, with all incidental charges, testing of samples in laboratory, cost of labour, equipment, materials etc. complete as per specification, drawings & as directed by the engineer: a) With naturally available Impervious clayey soil (with available good earth)	5.00	CuM		0.00	0.00	0.00	INR Zero Only
15.29	Providing and installing in position porous tube piezometers at specified locations including drilling cased bore holes of 100 mm diameter, cleaning them, assembling porous tube and PVC pipe of about 12M length with couplings, cleaning and driving out air from the pores of porous tube, pouring clean saturated coarse sand around the porous tube, backfilling with cement sand grout (1cement : 4sand) around the PVC pipe, providing removable cover for the PVC pipe and casing, and fabricating and installing protective fence complete with the cost of brass bottom plug, brass adapter, cost of the portion of steel casing pipe to be left in the bore hole, including the cost of all labour, equipment, materials, transportation to site.all leads & lifts etc. complete as per specification, drawings and as directed by the Engineer.	10.00	Each		0.00	0.00	0.00	INR Zero Only

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15.30	Providing and installing in position the surface settlement points of 1.0 metre depth at specified locations, including drilling holes and backfilling with 1:2:4 cement concrete and cost of all labour, equipment, materials, transportation to site all leads & lifts etc. complete as per specification drawing and as directed by the Engineer.	5.00	Each		0.00	0.00	0.00	INR Zero Only
15.31	Water Level Sounder- Providing and supplying water level sounder as per technical specification. The instruments shall be accepted by the Engineer only after all the instruments have been demonstrated to be in working condition and initial set of measurements of PIEZOMETERS have been taken, including the cost of all labour, equipment, materials, transportation to site etc. complete as per specification, drawings and as directed by the Engineer.	1.00	Each		0.00	0.00	0.00	INR Zero Only
15.32	Supplying, laying and heat jointing of Bituminous Geo-membrane (as per technical specifications) on ash pond bed as well as embankments as Hydraulic liner having average thickness 3.2 mm (Minimum thickness 3.0 mm), minimum width 5 m, minimum tensile strength of 18 kN/m and minimum permissible elongation of 30%, including 200 mm overlap, Bituminous Geomembrane Lining shall be laid on the properly prepared subgrade, including wastages, import duties & custom clearances charges, transportation, supply at site, loading/unloading, labour charges excluding embankment work.	58015.00	SqM		0.00	0.00	0.00	INR Zero Only

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15.33	Supplying, laying and heat jointing of Bituminous Geomembrane (as per technical specifications) on structures (RCC or Steel structures) as Hydraulic liner inside Ash Pond having average thickness 3.2 mm (Minimum thickness 3.0 mm), minimum width 5 m, minimum tensile strength of 18 kN/m and minimum permissible elongation of 30%, Bituminous Geomembrane Lining including Bituminous Primer application, clamping, import duties & custom clearances charges, transportation, supply at site, loading/unloading, labour charges excluding structural work.	350.00	SqM		0.00	0.00	0.00	INR Zero Only
15.34	Providing, supplying & Placing of 120 gsm Non-woven Filter Material GeoTextile with required water permeability, filtration etc. as per Technical Specification, Drawing and the direction of Engineer-in-Charge including cost of transportation to site, labour, equipment etc..	100.00	SqM		0.00	0.00	0.00	INR Zero Only
15.35	Providing and laying dry rubble stone soling in layers of 300 mm thick hand set in regular lines, interstices being filled in wit small pieces of stones, thoroughly rammed, consolidated and watered complete as directed and specified & rolling with 10 MT power roller.	50.00	CuM		0.00	0.00	0.00	INR Zero Only
16.00	ELECTRICAL WORKS (SUPPLY & ERECTION) (PART- II)							
17.00	SUPPLY OF ELECTRICAL ITEMS (SUPPLY: PART-A)							
18.00	TRANSFORMERS							
18.01	Supply of Transformers with all accessories, as specified in data sheets, Technical Specification - Electrical, Technical Specification Doc. No. PC183-TS-0802, etc. attached with the NIT.							
18.02	1 MVA, 11/0.433 kV, ONAN, Dyn11, 3 phase, 50 Hz, Oil immersed type transformer with externally operated off circuit tap changer with tapping range of $\pm 5\%$ in steps of 2.5% and Z=6% (zero negative tolerance) with all applicable fittings and accessories.	2	Nos.		0.00	0.00	0.00	INR Zero Only
19.00	DRY TYPE LIGHTING TRANSFORMERS							
19.01	Supply of Dry Type Lighting Transformers with all accessories, as specified in attached Specification Sheet, Technical Specification - Electrical, Technical Specification Doc.No. PC183-TS-0829 attached elsewhere in the tender document.							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
19.02	50 kVA, 433/415 V, AN, Dyn11, 3 phase, 50 Hz, Dry type lighting transformer with externally operated off circuit tap changer with tapping range of ± 5% in steps of 2.5% and Z=4% (zero negative tolerance) with all applicable fittings and accessories.	2	Nos.		0.00	0.00	0.00	INR Zero Only
20.00	HT SWITCH BOARD							
20.01	Supply of 11 KV, 1250 A, 750MVA for 3 sec., indoor type High Voltage switchboard (refer attached SLD) complete with all accessories, as specified in data sheet, SLD, feeder details, Technical Specification - Electrical, Technical Specification Doc. No. PC183-TS-0806, etc. attached with the NIT.	1	Nos.		0.00	0.00	0.00	INR Zero Only
21.0	415V POWER & MOTOR CONTROL CENTER							
21.01	Supply, Handling, including transportation from store to site of installation of 415V, 3 Ph & N, 1600 A, 50kA for 1 sec., Draw out type, Double front, indoor type Low Voltage switchboard (Power & Motor Control Centre, PMCC) complete with all accessories as per data sheets, SLD, schematic diagrams and feeder details including APFC Panel along with capacitor banks (bank size in multiple of 50,25 KVAR) and harmonic filter as per Technical Specification - Electrical, Technical specification Doc. No. PC183-TS-0805, etc. attached with the NIT.,	1	Nos.		0.00	0.00	0.00	INR Zero Only
22.00	CABLES (HT & LT)							
22.01	Supply 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 buried 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 engineer-in-charge.							
22.02	11KV (UE) grade XLPE insulated, PVC inner sheathed, FRLS PVC (ST2) type outer sheath as per Technical specification enclosed with NIT							

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Contract No: PNP/PC-183/E/206/NCB

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22.03	3Cx240 (Al)	3000	Mtr		0.00	0.00	0.00	INR Zero Only
22.04	1.1KV grade, XLPE insulated, PVC inner sheath, FRLS PVC outer sheath cables as per Technical specification enclosed with NIT							
22.05	3.5C x 400 mm ² (Al)	400	Mtr		0.00	0.00	0.00	INR Zero Only
22.06	3.5C x 120 mm ² (Al)	100	Mtr		0.00	0.00	0.00	INR Zero Only
22.07	3.5C x 70 mm ² (Al)	700	Mtr		0.00	0.00	0.00	INR Zero Only
22.08	3.5C x 50 mm ² (Al)	200	Mtr		0.00	0.00	0.00	INR Zero Only
22.09	3.5C x 25 mm ² (Al)	600	Mtr		0.00	0.00	0.00	INR Zero Only
22.10	4C x 4 mm ² (Cu)	1000	Mtr		0.00	0.00	0.00	INR Zero Only
22.11	4C x 6 mm ² (Cu)	400	Mtr		0.00	0.00	0.00	INR Zero Only
22.12	4C x 16 mm ² (Al)	400	Mtr		0.00	0.00	0.00	INR Zero Only
22.13	3C x 120 mm ² (Al)	1500	Mtr		0.00	0.00	0.00	INR Zero Only
22.14	3C x 70 mm ² (Al)	800	Mtr		0.00	0.00	0.00	INR Zero Only
22.15	3C x 25 mm ² (Al)	1000	Mtr		0.00	0.00	0.00	INR Zero Only
22.16	3C x 6 mm ² (Cu)	1200	Mtr		0.00	0.00	0.00	INR Zero Only
22.17	3C x 4 mm ² (Cu)	400	Mtr		0.00	0.00	0.00	INR Zero Only
22.18	3C x 2.5 mm ² (Cu)	5500	Mtr		0.00	0.00	0.00	INR Zero Only
22.19	5C x 2.5 mm ² (Cu)	725	Mtr		0.00	0.00	0.00	INR Zero Only
22.20	7C x 2.5 mm ² (Cu)	6000	Mtr		0.00	0.00	0.00	INR Zero Only
22.21	12C x 2.5 mm ² (Cu)	1200	Mtr		0.00	0.00	0.00	INR Zero Only
22.22	1Cx185 mm ² (Al)	100	Mtr		0.00	0.00	0.00	INR Zero Only
22.23	Supply, laying of 6 Fiber multi mode FO Cable suitable for relay to relay distance of approx 2 KM for line differential protection with all accessories for termination , this also include splicing, jointing as per requiremnt	3000	Mtr		0.00	0.00	0.00	INR Zero Only
23.00	CABLE TRAYS:							

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Contract No: PNP/PC-183/E/206/NCB

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23.01	Supply 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.							
23.02	Straight Run Cable Trays							
23.03	600 mm wide	1500	Mtrs.		0.00	0.00	0.00	INR Zero Only
23.04	450 mm wide	200	Mtrs.		0.00	0.00	0.00	INR Zero Only
23.05	300 mm wide	1500	Mtrs.		0.00	0.00	0.00	INR Zero Only
23.06	150 mm wide	200	Mtrs.		0.00	0.00	0.00	INR Zero Only
23.07	Horizontal Bends							
23.08	600 mm wide, 700 mm radius	20	Nos.		0.00	0.00	0.00	INR Zero Only
23.09	450 mm wide, 700 mm radius	15	Nos.		0.00	0.00	0.00	INR Zero Only
23.10	300 mm wide, 700 mm radius	60	Nos.		0.00	0.00	0.00	INR Zero Only
23.11	150 mm wide	20	Nos.		0.00	0.00	0.00	INR Zero Only
23.12	Vertical Inside Bends							
23.13	600mm wide, 1000mm radius	10	Nos.		0.00	0.00	0.00	INR Zero Only
23.14	450 mm wide, 1000mm radius	10	Nos.		0.00	0.00	0.00	INR Zero Only
23.15	300 mm wide, 1000mm radius	30	Nos.		0.00	0.00	0.00	INR Zero Only
23.16	150 mm wide	20	Nos.		0.00	0.00	0.00	INR Zero Only
23.17	Vertical Outside Bends							
23.18	600 mm wide, 1000 mm radius	10	Nos.		0.00	0.00	0.00	INR Zero Only
23.19	450 mm wide, 1000 mm radius	10	Nos.		0.00	0.00	0.00	INR Zero Only
23.20	300 mm wide, 1000 mm radius	35	Nos.		0.00	0.00	0.00	INR Zero Only
23.21	150 mm wide	20	Nos.		0.00	0.00	0.00	INR Zero Only
23.22	Reducer							

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23.23	600 mm / 450 mm wide	10	Mtrs.		0.00	0.00	0.00	INR Zero Only
23.24	450/300mm wide	10	Nos.		0.00	0.00	0.00	INR Zero Only
23.25	300/150mm wide	10	No.		0.00	0.00	0.00	INR Zero Only
23.26	Regular Tees							
23.27	600 mm wide , 700 mm radius	5	Mtrs.		0.00	0.00	0.00	INR Zero Only
23.28	450 mm wide, 700 mm radius	8	Mtrs.		0.00	0.00	0.00	INR Zero Only
23.29	Cross							
23.30	600 mm wide , 700 mm radius	10	Mtrs.		0.00	0.00	0.00	INR Zero Only
23.31	450 mm wide, 700 mm radius	5	Mtrs.		0.00	0.00	0.00	INR Zero Only
24.00	EARTHING AND LIGHTNING PROTECTION							
24.01	Supply of GI earth strip / Wire conductors of following sizes as per PDS attached with TS 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 500 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 earthen 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 owner / consultant of Hot Dip Galvanized GI earth strips & GI earth wire (with min. coating 610 gm / sq. m) of following sizes: -							
24.02	Note: The conductors shall be laid at a minimum depth of 500 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.							
24.03	75 mm x 10 mm	300	Mtr		0.00	0.00	0.00	INR Zero Only

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24.04	50 mm x 6 mm	200	Mtr		0.00	0.00	0.00	INR Zero Only
24.05	1Cx25 sq. mm Al cable Unarmoured	100	Mtr		0.00	0.00	0.00	INR Zero Only
24.06	GI wire Rope (8 SWG)	30	Kg		0.00	0.00	0.00	INR Zero Only
24.07	Supply of 35x6 GI strip on parapet of surface of wall for lightning conductor as required for vertical run including test link etc & horizontal run along wall,column,prapet etc complete with PVC fasteners,screws,Saddles, and welding/revetting and painting of joints etc as required.	200	Mtr		0.00	0.00	0.00	INR Zero Only
25.00	MISCELLANEOUS ITEMS							
25.01	Supply and Fixing of Caution boards / dangers boards written in ENGLISH & HINDI of the following voltages.							
25.02	11KV	1	Nos		0.00	0.00	0.00	INR Zero Only
25.03	415 V	1	Nos		0.00	0.00	0.00	INR Zero Only
25.04	Supply andFixing of shock treatment chart written in English and Local language duly framed and approved by engineer-in-charge.	1	Nos		0.00	0.00	0.00	INR Zero Only
25.05	Supply andFixing of Do & Don't chart as per Indian Electricity Rules in Aluminum frame with glass	1	Nos.		0.00	0.00	0.00	INR Zero Only
25.06	Supply and Fixing of S/S Single Line Diagram in Aluminum frame with glass.	1	Nos.		0.00	0.00	0.00	INR Zero Only
25.07	Supply and Fixing of CPR (CARDIO PULMONARY RESUSCITATION) Charts.	1	Nos.		0.00	0.00	0.00	INR Zero Only
25.08	Supply andFixing of High Voltage danger signage (Skull & bones).	1	Nos.		0.00	0.00	0.00	INR Zero Only
25.09	Supply and Fixing of Exit Route / Emergency Exit Route Signage.	1	Nos.		0.00	0.00	0.00	INR Zero Only
25.10	Supply and Fixing of First aid boxes.	1	Nos.		0.00	0.00	0.00	INR Zero Only
25.11	Supplying the following Equipment as per directions of Site Engineer / Engineer-in-Charge							
25.12	RUBBER HAND GLOVES : Rubber hand gloves suitable for 11/3.3 KV operation with ISI mark.	2	SET		0.00	0.00	0.00	INR Zero Only
25.13	Supply of 11 KV Discharge Rod	1	SET		0.00	0.00	0.00	INR Zero Only
25.14	INSULATING MATS:							

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25.15	Supply & installation of 2000 mm X 1000 mm and of thickness as mentioned below, approved quality insulating Elastomer mats as per specifications.							
25.16	Insulating Elastomer mats conforming to IS 15652:2006 of thickness 2 mm (Class A)	12	EA		0.00	0.00	0.00	INR Zero Only
25.17	Insulating Elastomer mats conforming to IS 15652:2006 of thickness 2.5 mm (Class B)	8	EA		0.00	0.00	0.00	INR Zero Only
25.18	Supply and fixing of of fully charged portable CO2 fire extinguishers as per specifications (4.5 kg capacity as per IS: 2878 latest)	3	Nos.		0.00	0.00	0.00	INR Zero Only
25.19	Supply and fixing of fire sand buckets mounted on stand	2	Nos.		0.00	0.00	0.00	INR Zero Only
26.00	Spares							
26.01	Supply of spares of following equipments							
27.00	11KV Switchboard							
27.01	1250A VCB, 40KA for 3 sec							
27.02	Shunt trip coil	1	No.		0.00	0.00	0.00	INR Zero Only
27.03	Closing coil	1	No.		0.00	0.00	0.00	INR Zero Only
27.04	Micro Switch for Spring Charging	1	No.		0.00	0.00	0.00	INR Zero Only
27.05	Micro Switch for Service/Test position	1	Set		0.00	0.00	0.00	INR Zero Only
28.00	CONTROL SWITCHES							
28.01	Trip-Neutral-Close Control Switch	1	No.		0.00	0.00	0.00	INR Zero Only
28.02	Local-Remote or Auto-Manual Selector Switch	1	No.		0.00	0.00	0.00	INR Zero Only
28.03	Indication Lamps (1 no. of each colour)	1	set		0.00	0.00	0.00	INR Zero Only
28.04	MINIATURE CIRCUIT BREAKER (OF EACH RATING)	1	Set		0.00	0.00	0.00	INR Zero Only
29.00	RELAYS (OF EACH TYPE)							
29.01	Numerical Relays for line differential	1	No		0.00	0.00	0.00	INR Zero Only
29.02	Numerical Relays for Transformer feeder protection	1	No		0.00	0.00	0.00	INR Zero Only
29.03	Electromechanical Relays-Lockout relay	1	No.		0.00	0.00	0.00	INR Zero Only
29.04	Electromechanical Relays-Trip Circuit supervision	1	No.		0.00	0.00	0.00	INR Zero Only
30.00	METERS							
30.01	Multifunction Meter	1	No.		0.00	0.00	0.00	INR Zero Only
31.00	INSTRUMENT TRANSFORMER							

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31.01	PS class CT for line differential protection in incomer	3	Nos.		0.00	0.00	0.00	INR Zero Only
31.02	5P20 & metering class multi core CT for in incomer	3	Nos.		0.00	0.00	0.00	INR Zero Only
32.00	MISCELLANEOUS							
32.01	Surge Suppressor	1	Nos.		0.00	0.00	0.00	INR Zero Only
32.02	Vacuum Bottle (11KV, 1250A)	1	Nos.		0.00	0.00	0.00	INR Zero Only
32.03	Secondary disconnectiong switch	1	Nos.		0.00	0.00	0.00	INR Zero Only
32.04	11KV, 1250A, 40KA for 3 sec VCB complete with all auxiliaries	1	Nos.		0.00	0.00	0.00	INR Zero Only
32.05	11KV, 3 core PT, suitable for 11KV panel	3	Nos.		0.00	0.00	0.00	INR Zero Only
32.06	PT fuse	1	Set		0.00	0.00	0.00	INR Zero Only
32.07	Anti pumping relay	1	No.		0.00	0.00	0.00	INR Zero Only
33.00	POWER & DISTRIBUTION TRANSFORMER (1000 KVA, 11/0.433 kV Transformer)							
33.01	Bushings complete with accessories for all 3 phase & neutral for all voltage grades.	1	Set		0.00	0.00	0.00	INR Zero Only
33.02	Complete set of gaskets	1	No.		0.00	0.00	0.00	INR Zero Only
33.03	Equaliser pipe and Explosion vent diaphragm	1	Set		0.00	0.00	0.00	INR Zero Only
33.04	PRV with alarm and trip	1	Set		0.00	0.00	0.00	INR Zero Only
33.05	Oil Level Gauge	1	No.		0.00	0.00	0.00	INR Zero Only
33.06	Complete charge of Silica gel with breather	1	Set		0.00	0.00	0.00	INR Zero Only
33.07	Gland packing / O-rings for every valve	1	Set		0.00	0.00	0.00	INR Zero Only
33.08	Buchholz Relay	1	No.		0.00	0.00	0.00	INR Zero Only
33.09	Analogue type OTI	1	No.		0.00	0.00	0.00	INR Zero Only
33.10	Analogue type WTI	1	No.		0.00	0.00	0.00	INR Zero Only
33.11	Radiator(one set of each type)	1	Set		0.00	0.00	0.00	INR Zero Only
33.12	Complte set of valve(1 no. of each type)	1	Set		0.00	0.00	0.00	INR Zero Only
33.13	Support insulator(HV Side)	1	Nos.		0.00	0.00	0.00	INR Zero Only
33.14	Support insulator(LV Side)	1	Nos.		0.00	0.00	0.00	INR Zero Only
33.15	Conservator gauge Glass/Sealing	1	No.		0.00	0.00	0.00	INR Zero Only
33.16	Thermister with space heater for M.B	1	No.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

Name of the Bidder/ Bidding Firm / Company :	
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SCHEDULE OF RATE (Rev. 1) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
33.17	3 Pin switch & socket	1	No.		0.00	0.00	0.00	INR Zero Only
33.18	CT for REF	1	No.		0.00	0.00	0.00	INR Zero Only
33.19	CT for SBEF	1	No.		0.00	0.00	0.00	INR Zero Only
34.00	BATTERY CHARGER							
34.01	Power Thyristor/IGBT(each type and rating)	1	Nos.		0.00	0.00	0.00	INR Zero Only
34.02	Power supply Card(each installed card)	1	No.		0.00	0.00	0.00	INR Zero Only
34.03	Control Card(each installed card)	1	No.		0.00	0.00	0.00	INR Zero Only
34.04	Fuses (each type and rating) and fuse link	1	Nos.		0.00	0.00	0.00	INR Zero Only
34.05	Pulse transformer circuit	1	No.		0.00	0.00	0.00	INR Zero Only
34.06	Fuse fail monitor	1	No.		0.00	0.00	0.00	INR Zero Only
34.07	Blocker diodes	1	Nos.		0.00	0.00	0.00	INR Zero Only
34.08	Contactors(Each type and rating)	1	No.		0.00	0.00	0.00	INR Zero Only
34.09	All discrete type components like capacitors, resistors etc.	1	No.		0.00	0.00	0.00	INR Zero Only
34.10	Indicating lamp assembly	1	Set		0.00	0.00	0.00	INR Zero Only
34.11	Toggle switch	1	No.		0.00	0.00	0.00	INR Zero Only
34.12	DC under voltage/over voltage	1	No.		0.00	0.00	0.00	INR Zero Only
34.13	Battery earth fault	1	No.		0.00	0.00	0.00	INR Zero Only
34.14	Annunciator relays	1	No.		0.00	0.00	0.00	INR Zero Only
34.15	Auto float boost changeover	1	No.		0.00	0.00	0.00	INR Zero Only
34.16	Battery isolator	1	No.		0.00	0.00	0.00	INR Zero Only
35.00	BATTERY							
35.01	Rubber Syringe for tapping cells	1	Nos.		0.00	0.00	0.00	INR Zero Only
35.02	Alkali Resistant Funnel	1	Nos.		0.00	0.00	0.00	INR Zero Only
35.03	Alkali Resistant Jug	1	Nos.		0.00	0.00	0.00	INR Zero Only
35.04	Rubber gloves	1	Pair		0.00	0.00	0.00	INR Zero Only
35.05	Rubber apron	1	Nos.		0.00	0.00	0.00	INR Zero Only
35.06	A-type ladder with alkali resistant coating, 2 ft height	1	No.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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35.07	Complete cells	1	Nos.		0.00	0.00	0.00	INR Zero Only
35.08	Vent plugs	1	Nos.		0.00	0.00	0.00	INR Zero Only
35.09	Inter cell connectors	1	Nos.		0.00	0.00	0.00	INR Zero Only
35.10	Set of nuts, bolts and washers	1	Set		0.00	0.00	0.00	INR Zero Only
36.00	415V LV SWITCHBOARD							
36.01	1600A, 50KA for 1 sec ACB							
36.02	Arc Chute assembly	1	Set		0.00	0.00	0.00	INR Zero Only
36.03	Shunt trip coil.	1	Set		0.00	0.00	0.00	INR Zero Only
36.04	Closing coil	1	Set		0.00	0.00	0.00	INR Zero Only
36.05	Secondary isolating contact blocks.	1	Set		0.00	0.00	0.00	INR Zero Only
36.06	CONTROL SWITCHES							
36.07	Trip-Neutral-Close Control Switch	1	No.		0.00	0.00	0.00	INR Zero Only
36.08	Control Fuse							
36.09	Fuse Link	1	No.		0.00	0.00	0.00	INR Zero Only
36.10	Fuse Fitting	1	No.		0.00	0.00	0.00	INR Zero Only
36.11	Microprocessor based numerical relay used in incomer ACB feeder	1	No.		0.00	0.00	0.00	INR Zero Only
36.12	Microprocessor based numerical relay used in Motor ACB feeder	1	No.		0.00	0.00	0.00	INR Zero Only
36.13	Restricted earth fault numerical relay for Transformer feeder	1	No.		0.00	0.00	0.00	INR Zero Only
36.14	MCB for control circuit	1	No.		0.00	0.00	0.00	INR Zero Only
36.15	2500A, 50KA for 1 sec ACB complete with all auxiliaries	1	No.		0.00	0.00	0.00	INR Zero Only
37.00	LIGHTING FIXTURE							
37.01	2x18W LED Lighting Fixture with LED lamp	2	Nos.		0.00	0.00	0.00	INR Zero Only
37.02	90W LED street light fixture with LED lamp	2	Nos.		0.00	0.00	0.00	INR Zero Only
37.03	200W LED flood light fixture with LED lamp	2	Nos.		0.00	0.00	0.00	INR Zero Only
38.00	AIR PRESSURIZATION SYSTEM							
38.01	Drive belt(motor to fan)	5	Nos.		0.00	0.00	0.00	INR Zero Only
38.02	Set of DE & NDE bearings for all motors	1	Set		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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38.03	Humidity sensor	1	No.		0.00	0.00	0.00	INR Zero Only
38.04	Manometer	1	No.		0.00	0.00	0.00	INR Zero Only
38.05	Damper limit switches	2	Nos.		0.00	0.00	0.00	INR Zero Only
38.06	Power contactors	2	Nos.		0.00	0.00	0.00	INR Zero Only
38.07	Auxilliary contactors	6	Nos.		0.00	0.00	0.00	INR Zero Only
38.08	Overload relays	2	Nos.		0.00	0.00	0.00	INR Zero Only
38.09	Louvers	1	Set		0.00	0.00	0.00	INR Zero Only
38.10	Push button actuator type	4	Nos.		0.00	0.00	0.00	INR Zero Only
38.11	Water level float level	1	No.		0.00	0.00	0.00	INR Zero Only
38.12	Cooling fans for motors	1	No.		0.00	0.00	0.00	INR Zero Only
38.13	Grease, Nipple & Plug	2	Nos.		0.00	0.00	0.00	INR Zero Only
38.14	Fan Cover for Motor	1	No.		0.00	0.00	0.00	INR Zero Only
38.15	Terminal studs/bushing Assembly	1	No.		0.00	0.00	0.00	INR Zero Only
38.16	Set of blower bearings	1	Set		0.00	0.00	0.00	INR Zero Only
38.17	Bellow (of each type)	1	No.		0.00	0.00	0.00	INR Zero Only
38.18	Motor housing DE/NDE side	1	Set		0.00	0.00	0.00	INR Zero Only
38.19	Pre-filter (50% of installed qty.)	1	Lot.		0.00	0.00	0.00	INR Zero Only
38.20	Fine filter (50% of installed qty.)	1	Lot.		0.00	0.00	0.00	INR Zero Only
38.21	Complete water pump with motor & coupling including Complete coupling sets for V-belt mounting at motor & blower end	1	Set		0.00	0.00	0.00	INR Zero Only
38.22	Strainer in suction	1	Set		0.00	0.00	0.00	INR Zero Only
39.00	Dry type lighting transformer (For each rating)							
39.01	Temperature Scanner	1	No.		0.00	0.00	0.00	INR Zero Only
39.02	Bushing with accessories	1	Set		0.00	0.00	0.00	INR Zero Only
39.03	Complete set of gasket	1	Set		0.00	0.00	0.00	INR Zero Only
40.00	INTERLOCKING SWITCH SOCKET & PLUG							
40.01	Switch of each rating	2	Nos.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

NAME OF THE BIDDER/ BIDDING FIRM / COMPANY :								
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40.02	Fuse base of each rating	2	Nos.		0.00	0.00	0.00	INR Zero Only
40.03	Fuse of each rating	2	Nos.		0.00	0.00	0.00	INR Zero Only
40.04	Plug Top	2	Nos.		0.00	0.00	0.00	INR Zero Only
41.00	ERECTION, TESTING & COMMISSIONING OF ELECTRICAL ITEMS (SERVICES: PART-B)							
42.00	HT SWITCHBOARD (11 KV):							
42.01	Handling, storage at site, transportation from store to site of installation, erection, installation, testing and commissioning of HT Switchboard of 11KV etc. consisting of VCB's and other accessories free standing, floor mounting, cubicle type, as per the SLD, data sheets & Technical Specification (Doc. No. PC183-TS-0806) attached with the NIT, including transportation from the store to the site of erection, unpacking, inspection, assembly, fabrication and installation on foundation channels, drilling, cutting, welding, aligning, levelling, grouting, assembling and fitting all accessories/instruments/relays, relay coordination, CT, PT, Numerical Relay, interconnection of shipping sections and inter panel wiring as necessary, inter bus bar jointing and earthing of numerical relay, earthing of HT switch board, operational and functional checking, including termination of all LT/control cables, connection of 240V Supply/battery bank 110V DC supply, making all the interconnections/outgoing/incoming LT power & control cable connections including drilling of gland plate for making holes for cable entries as required, materials along with supply & fixing of WP double compression rolled aluminium cable glands, suitable end cable lugs (Al/Cu/Bimetalic), shrouding, plugging/sealing of all unused cable entries and other holes for making the same dust and vermin proof with all labour, tools and tackles, other consumables etc., as per drawings, specification and directions of Site Engineer/Engineer-in-Charge. Note: Commissioning assistance shall be provided by the supplier (OEM) of the HT Switchboard as and when required at site.							
42.02	11 KV, 1250 A, 750MVA for 3 sec., Switchboard (refer attached SLD) as specified	1	Nos.		0.00	0.00	0.00	INR Zero Only
43.00	415V POWER & MOTOR CONTROL CENTER							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
43.01	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. This shall also include 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, 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 , 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.	1	Nos.		0.00	0.00	0.00	INR Zero Only

Item Rate BoQ

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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43.02	415V, 3 Ph & N, 1600 A, 50kA for 1 sec., Draw out type, Double front, indoor type Low Voltage switchboard (Power & Motor Control Centre, PMCC) (refer attached SLD) as specified							
44.00	TRANSFORMER							
44.01	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. Note: Commissioning assistance shall be provided by the supplier of the Transformer as and when required at site.							
44.02	1000 KVA, 11/0.433 kV Transformer (ONAN), 50 Hz, Dyn11with off load tap changer	2	Nos.		0.00	0.00	0.00	INR Zero Only
45.00	TRANSFORMER OIL :							
45.01	Centrifuging, filtering and dehydrating of the transformer oil of transformer to improve insulation level to the value recommended as per the relevant ISS and the manufacturer's recommendations and as per specifications and directions of the Site Engineer/Engineer-in-Charge including supply of labour, tools and materials and all services rendered complete.	2500	Ltr		0.00	0.00	0.00	INR Zero Only
46.00	DRY TYPE LIGHTING TRANSFORMERS							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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46.01	Handling, Installation, Testing and Commissioning of Dry Type Lighting Transformers (as indicated in Supply Part-A) excluding power and control cable termination but including transportation of lighting transformer and its accessories from owner's stores, 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 lighting transformer manufacturer.							
46.02	50 KVA, 433/415 V, Dry Type Lighting Transformers	2	Nos.		0.00	0.00	0.00	INR Zero Only
47.00	TESTING & COMMISSIONING of LV MOTORS							
47.01	Testing and commissioning of 3-Phase, 415V, Squirrel Cage, Hoseproof Induction Motors of following ratings excluding cable glanding, cable termination, dehydration of windings but including checking & replenishment/ replacement of bearing grease/ lubricant; checking of IR values between each winding & motor frame & checking of continuity of rotation, if required, by changing supply connections; trial runs on NO LOAD & ON LOAD; supply of approved grease/ lubricant & necessary hardware; all work, labour & materials complete as per specifications, documents, codes & standards & directions of engineer-in-charge. (Contractor to keep proper record of tests on motors for NO LOAD & ON LOAD runs)							
48.00	Hoseproof Motors							
48.01	Rating upto 5.5 KW	15	Nos.		0.00	0.00	0.00	INR Zero Only
48.02	Rating above 5.5 KW but upto 11 KW	6	Nos.		0.00	0.00	0.00	INR Zero Only
48.03	Rating above 11 KW but upto 22 KW	7	Nos.		0.00	0.00	0.00	INR Zero Only
48.04	Rating above 22 KW but upto 45 KW	4	Nos.		0.00	0.00	0.00	INR Zero Only
48.05	Rating above 45 KW but upto 75 KW	2	Nos.		0.00	0.00	0.00	INR Zero Only
48.06	Rating above 75 KW but upto 150 KW	2	Nos.		0.00	0.00	0.00	INR Zero Only
48.07	Dehydration of the following motors to improve the insulation resistance value of the winding to the required level as per direction of the site in-charge.							
48.08	Rating up to 22 KW	1	Nos		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

Name of the Bidder/ Bidding Firm / Company :	
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49.00	CABLES (HT & LT)							
49.01	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 engineer-in-charge.							
50.00	HT (11KV/3.3 KV) Power cables							
50.01	Power cables HT (11 KV) upto 400 sq. mm	3000	Mtrs.		0.00	0.00	0.00	INR Zero Only
51.00	LT (PVC / XLPE / Armoured / Unarmoured / Power / Control / Signalling) Cables							
51.01	3.5C x 400 mm ² (Al)	400	Mtr		0.00	0.00	0.00	INR Zero Only
51.02	3.5C x 120 mm ² (Al)	100	Mtr		0.00	0.00	0.00	INR Zero Only
51.03	3.5C x 70 mm ² (Al)	700	Mtr		0.00	0.00	0.00	INR Zero Only
51.04	3.5C x 50 mm ² (Al)	200	Mtr		0.00	0.00	0.00	INR Zero Only
51.05	3.5C x 25 mm ² (Al)	600	Mtr		0.00	0.00	0.00	INR Zero Only
51.06	4C x 4 mm ² (Cu)	1000	Mtr		0.00	0.00	0.00	INR Zero Only
51.07	4C x 6 mm ² (Cu)	400	Mtr		0.00	0.00	0.00	INR Zero Only
51.08	4C x 16 mm ² (Al)	400	Mtr		0.00	0.00	0.00	INR Zero Only
51.09	3C x 120 mm ² (Al)	1500	Mtr		0.00	0.00	0.00	INR Zero Only
51.10	3C x 70 mm ² (Al)	800	Mtr		0.00	0.00	0.00	INR Zero Only
51.11	3C x 25 mm ² (Al)	1000	Mtr		0.00	0.00	0.00	INR Zero Only
51.12	3C x 6 mm ² (Cu)	1200	Mtr		0.00	0.00	0.00	INR Zero Only
51.13	3C x 4 mm ² (Cu)	400	Mtr		0.00	0.00	0.00	INR Zero Only
51.14	3C x 2.5 mm ² (Cu)	5500	Mtr		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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51.15	5C x 2.5 mm ² (Cu)	725	Mtr		0.00	0.00	0.00	INR Zero Only
51.16	7C x 2.5 mm ² (Cu)	6000	Mtr		0.00	0.00	0.00	INR Zero Only
51.17	12C x 2.5 mm ² (Cu)	1200	Mtr		0.00	0.00	0.00	INR Zero Only
51.18	1Cx185 mm ² (Al)	100	Mtr		0.00	0.00	0.00	INR Zero Only
51.19	Handling,laying of 6 Fiber multi mode FO Cable suitable for relay to relay distance of approx 2 KM for line differential protection with all accessories for termination , this also include splicing, jointing as per requiremnt	3000	Mtr		0.00	0.00	0.00	INR Zero Only
52.0	EARTH STRIP / WIRE / ROPE / CABLE							
52.01	Handling,Installing and testing of earthing strip/wire/rope/cable for completely making the earthing grid system by supplying, laying the GI / Cu strip and making all the necessary welding joints, connecting to the earthing electrodes and existing earthing grid etc., complete as per drawings, specifications and directions of the Site engineer/Engineer-in-charge, including the cost of all labour, tools, materials, etc. complete in all respect.							
52.02	Note: The conductors shall be laid at a minimum depth of 500 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.							
52.03	75 mm x 10 mm	300	Mtr		0.00	0.00	0.00	INR Zero Only
52.04	50 mm x 6 mm	200	Mtr		0.00	0.00	0.00	INR Zero Only
52.05	1Cx25 sq. mm Al cable Unarmoured	100	Mtr		0.00	0.00	0.00	INR Zero Only
52.06	GI wire Rope (8 SWG)	30	Mtr		0.00	0.00	0.00	INR Zero Only
52.07	Handling,Installation, Testing and Commissioning of 35x6 GI strip on parapet of surface of wall for lightning conductor as required for vertical run including test link etc & horizontal run along wall,column,prapet etc complete with PVC fasteners,screws,Saddles, and welding/revetting and painting of joints etc as required.	200	Mtr		0.00	0.00	0.00	INR Zero Only
53.0	CABLE TRAYS:							

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53.01	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.							
53.02	Straight Run Cable Trays							
53.03	600 mm wide	1500	Mtrs.		0.00	0.00	0.00	INR Zero Only
53.04	450 mm wide	200	Mtrs.		0.00	0.00	0.00	INR Zero Only
53.05	300 mm wide	1500	Mtrs.		0.00	0.00	0.00	INR Zero Only
53.06	150 mm wide	200	Mtrs.		0.00	0.00	0.00	INR Zero Only
53.07	Horizontal Bends							
53.08	600 mm wide, 700 mm radius	20	Nos.		0.00	0.00	0.00	INR Zero Only
53.09	450 mm wide, 700 mm radius	15	Nos.		0.00	0.00	0.00	INR Zero Only
53.10	300 mm wide, 700 mm radius	60	Nos.		0.00	0.00	0.00	INR Zero Only
53.11	150 mm wide	20	Nos.		0.00	0.00	0.00	INR Zero Only
53.12	Vertical Inside Bends							
53.13	600mm wide, 1000mm radius	10	Nos.		0.00	0.00	0.00	INR Zero Only
53.14	450 mm wide, 1000mm radius	10	Nos.		0.00	0.00	0.00	INR Zero Only
53.15	300 mm wide, 1000mm radius	30	Nos.		0.00	0.00	0.00	INR Zero Only
53.16	150 mm wide	20	Nos.		0.00	0.00	0.00	INR Zero Only
53.17	Vertical Outside Bends							
53.18	600 mm wide, 1000 mm radius	10	Nos.		0.00	0.00	0.00	INR Zero Only
53.19	450 mm wide, 1000 mm radius	10	Nos.		0.00	0.00	0.00	INR Zero Only
53.20	300 mm wide, 1000 mm radius	35	Nos.		0.00	0.00	0.00	INR Zero Only
53.21	150 mm wide	20	Nos.		0.00	0.00	0.00	INR Zero Only

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53.22	Reducer							
53.23	600 mm / 450 mm wide	10	Mtrs.		0.00	0.00	0.00	INR Zero Only
53.24	450/300mm wide	10	Nos.		0.00	0.00	0.00	INR Zero Only
53.25	300/150mm wide	10	No.		0.00	0.00	0.00	INR Zero Only
53.26	Regular Tees							
53.27	600 mm wide , 700 mm radius	5	Mtrs.		0.00	0.00	0.00	INR Zero Only
53.28	450 mm wide, 700 mm radius	8	Mtrs.		0.00	0.00	0.00	INR Zero Only
53.29	Cross							
53.30	600 mm wide , 700 mm radius	10	Mtrs.		0.00	0.00	0.00	INR Zero Only
53.31	450 mm wide, 700 mm radius	5	Mtrs.		0.00	0.00	0.00	INR Zero Only
54.00	SUPPLY, ERECTION, TESTING & COMMISSIONING OF ELECTRICAL COMPOSITE ITEMS (PART-C)							
55.00	DISTRIBUTION BOARDS:							
55.01	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-0808 and attached SLD, data sheets, drawings, specifications and directions of engineer-in-charge :							

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Contract No: PNP/PC-183/E/206/NCB

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55.02	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 150/1 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 for MLDB enclosed with Technical specification PC183-TS-0808.	1	Nos.		0.00	0.00	0.00	INR Zero Only
56.00	WALL / STRUCTURE MOUNTED SUB DISTRIBUTION BOARDS / FEEDAR PILLAR BOXES							
56.01	Supply,unloading,Handling, Storage,transporation within site, Installation, testing and commissioning of following floor / wall mounted Distribution Boards, including supply and fabrication of epoxy painted MS frame, operational and functional checking, drilling of gland plates with requisite holes, fixing of cable glands, 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 wall / structure mounted Distribution Boards as specified in Technical Specification - Electrical, Technical Specification PC183-TS-0809., Single Line Diagrams, Specification Sheets, Specifications and directions of Engineer-in-Charge.							
56.02	415 V, 12-way, wall / structure mounted Sheet Steel enclosed Industrial Type Hose Proof and weatherproof (IP-65) Lighting Sub Distribution Boards having 1 No. Incoming (63 A 4PMCCB) and 3 nos. feeder circuit of 63A DP RCBO having 12 Nos. outgoing of 16 A DP MCB as indicated in attached SLD along with technical specifications, standards etc. (i.e.4 nos. 16 A DP MCB per circuit).	3	Nos.		0.00	0.00	0.00	INR Zero Only
56.03	415 V, 9-way, wall / structure mounted Sheet Steel enclosed Industrial Type Hose Proof and weatherproof (IP-65) Lighting Sub Distribution Boards having 1 No. Incoming (63 A 4PMCCB) and 3 nos. feeder circuit of 63A DP RCBO having 9 Nos. outgoing of 16 A DP MCB as indicated in attached SLD along with technical specifications, standards etc.(i.e.3 nos. 16 A DP MCB per circuit).	2	Nos.		0.00	0.00	0.00	INR Zero Only

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Contract No: PNP/PC-183/E/206/NCB

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56.04	415V Hose proof and weatherproof industrial type sheet steel enclosed, 18 way Lighting Distribution Board (LSDB) with IP-55 degree of protection having 1 no.(63 A 4PMCCB) and 3 nos. feeder circuit of 63A DP RCBO having 18 nos.16A DP MCBs outgoing as indicated in attached SLD along with technical specifications, standards etc.	3	No.		0.00	0.00	0.00	INR Zero Only
56.05	415 V, 3 Ph & N, IP55, wall/structure mounted sheet steel enclosed Feeder pillar box consisting of 1 nos. incoming 125A TPN MCCB incomer with RYB indications and 4 nos. 63A TPN MCCB outgoing feeders as indicated in attached SLD for feeder pillar box enclosed with Technical specification EM251-TS-0803.	1	No.		0.00	0.00	0.00	INR Zero Only
57.00	PRESSURIZATION SYSTEM							
57.01	Design, engineering, manufacturing, testing & delivery at site (supply), unloading, handling, storage, transporation within site, assembly and erection, testing, commissioning & guarantee test for final acceptance of Pressurization System consisting of Blower, Air filter, Air washer internals, moisture eliminator, Air damper, louvers, vibration isolation pads, motor pump set for water spraying, local control station, supply and fixing of rolled aluminium cable glands and suitable cable lugs (Al/Cu/Bimetalic), termination of power and control cable, plugging of all unused cable entries and other accessories required for completeness of system as specified in Technical Specification (Doc. No. PC183-TS-0839). Note: Installation & Commissioing shall be executed by Pressurization system manufacturer.	1	Lot.		0.00	0.00	0.00	INR Zero Only
58.00	EMERGENCY PUSH BUTTON STATION FOR TRANSFORMER (Weatherproof)							

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58.01	Supply ,erection,testing and commissioning of Weather Proof push button(OFF) control station of approved make for emergency transformer tripping at field including connection and termination of copper control cable, fabricating, earthing the supporting structure,termination of cables painting the same, including supply & installation of cable glands & plugs for sealing all spare entries including the cost of all labour,tools, materials etc. complete in every respect as per the specification and directions of the Engineer-in-charge.	2	Nos.		0.00	0.00	0.00	INR Zero Only
59.00	BATTERY CHARGER WITH BATTERY BANK ALONG WITH DCDB							
59.01	Supply, storage at site, Handling, Transporation from store to site of installation, erection, installation, testing and commissioning of Medium discharge Nickle Cadmium type, 110 V, 80 AH battery bank with 50 A dual Float cum Boost Charger (FCBC) complete with DC distribution board (DCDB) as per SLD and one no. cell booster as per Technical Specification - Electrical, Technical Specification (PC183-TS-0813 & PC183-TS-0814) of approved make only. The item includes batteries, float cum boost charger, DCDB, battery stand, interconnecting copper cables, insulated copper links, earthing of FCBC and battery stand, connection and termination of all power and control cables of battery charger, battery bank and DCDB etc., supply and fxing of double compression cable glands and suitable lugs, plugging of all unused cable entries etc., all consumables, materials, labour, tools and tackles, etc. for the completeness of system as per drawings, specification and directions of Site Engineer / Engineer-in-Charge	1	No.		0.00	0.00	0.00	INR Zero Only
60.00	LIGHTING							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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60.01	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.							
60.02	LED Tube light fitting industrial type of approved make suspension mounting suitable for 240V AC as per Technical specification complete with 2x18 W LED fixture with all accessories such as LED lamp/chip, electronic driver, Refelector, Terminal block etc.The fittings shall be provided with suspension accessory / wall mounting bracket depending upon directions by EIC / Site Engineer. The minimum degree of protection shall be IP 20.	20	Nos.		0.00	0.00	0.00	INR Zero Only
60.03	LED Tube light fitting industrial type of approved make suspension mounting/wall mounting suitable for 240V AC as per Technical specification complete with 1x20 W LED fixture with all accessories such as LED lamp/chip, electronic driver, Refelector Terminal block etc etc.. The fittings shall be provided with suspension accessory / wall mounting bracket depending upon directions by EIC / Site Engineer. The minimum degree of protection shall be IP 20.	2	Nos.		0.00	0.00	0.00	INR Zero Only
60.04	LED Tube light fitting industrial type of approved make wall mounting suitable for 240V AC as per Technical specification complete with 1 x 20 W LED fixture with all accessories such as LED lamp/chip, electronic driver , Refelector , terminal block etc.. The fittings shall be provided with wall mounting bracket depending upon directions by EIC / Site Engineer. The minimum degree of protection shall IP 55.	15	Nos.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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60.05	Corrosion resistant LED Tube light fitting industrial type of approved make wall /ceiling mounting suitable for 240V AC as per Technical specification complete with 1 x 20 W LED fixture with all accessories such as LED lamp/chip,, electronic driver , Refelector,terminal block etc.. The fittings shall be provided with suspension accessory / wall mounting bracket depending upon directions by EIC / Site Engineer. The minimum degree of protection shall IP 65.	18	Nos.		0.00	0.00	0.00	INR Zero Only
60.06	Supply,unloading, storage, handling, transporation within site from store to site of installation, installation, connection, testing and commissioning of pre-wired 240V AC,1-Ph, WP outdoor,LED Lighting fixtures including LED lamp with driver and JB for looping of cables of following type which shall be suitable for use in safe area having IP-65 degree of protection complete with all accessories, double compression Ni-plated brass cable glangs & plugs, blanking plugs etc. as specified in Technical specification and all hardware for fixing the lighting fittings with structure/ lighting pole including cable glanding, crimping of lugs on cable conductor & connecting cables at fixtures, earthing, junction boxes, etc. including supply of all connecting materials like clamps, supports, conduits, down rods etc. as required as well as transportation from store to site of erection with all labour and material to make installation complete in all respect as per approved drawings, specifications and directions of engineer-in-charge. The rates shall be valid for all mounting heights.							
60.07	120 W LED Flood light, WP type lighting fixturesof Philips make or approve equivalent make as per technical specification with led lamp/chip, driver etc. complete with increased safety cable glands, plug suitable for 3 X 2.5mm ² XLPE-A-PVC cable and stopping plug.	12	Nos.		0.00	0.00	0.00	INR Zero Only

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60.08	Bulkhead type LED light fitting type of approved make wall mounting suitable for 110V DC as per Technical specification complete with 1 x 20 W LED fixture with all accessories such as LED lamp/chip, electronic driver , terminal block, Refelector etc.. The fittings shall be provided with suspension accessory / wall mounting bracket depending upon directions by EIC / Site Engineer. The minimum degree of protection shall IP 65.	15	Nos.		0.00	0.00	0.00	INR Zero Only
61.00	Local control station for Motors							
61.01	Supply, Handling, storage at site, transportation from store to site of installation, erection, installation, testing and commissioning of weatherproof Local control station in die cast aluminium alloy (LM-6) enclosure along with suitable rain protection hood of following type as per technical specification, data sheet, codes & standards. For the motor on, off control from field including connection and termination of copper control cable, fabricating, earthing the supporting structure, painting the same. This shall also include transporation of store to site of erection, fixing control stations with nuts and bolts on new support (1.8 mtr height including grouting of 300mm below ground), connecting control cable for start, stop, L/R selector switch, ammeeter and indication lamps as required and testing to make the installation complete in all respect as per approved drawings, specifications & direction of engineer-in-charge							
61.02	Type-1 LCS with Trip Neutral Close Control Switch + Auto / Manual Selector Switch + 3 nos. Indication Lamps + Ammeter for all ACB fed motors.	1	Nos.		0.00	0.00	0.00	INR Zero Only
61.03	Type-2 LCS with Start Stop Push Button + Auto / Manual Selector Switch + 1 no. Indication Lamp + Ammeter for all DOL motor feeders of rating: 30 kW < P < 75 kW	18	Nos.		0.00	0.00	0.00	INR Zero Only
61.04	Type-3 LCS with Start Stop Push Button + Auto / Manual Selector Switch + Ammeter for all DOL motor feeders of rating: 5.5 kW < P < 30 kW	6	Nos.		0.00	0.00	0.00	INR Zero Only
61.05	Type-4 LCS with Start Stop Push Button + Auto / Manual Selector Switch for all DOL motor feeders of rating: P < 5.5 kW	15	Nos.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNPM/PC-183/E/206/NCB

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61.06	Supply, Installation, Testing & Commissioning of following single phase wall fan and exhaust fan with guards / louvres, along with necessary brackets, all required civil works, making good the walls after fixing the fans etc.							
61.07	380 mm sweep heavy duty exhaust fan	4	Nos		0.00	0.00	0.00	INR Zero Only
61.08	Corrosion proof, flameproof 300mm sweep heavy duty exhaust fan for battery room	2	Nos		0.00	0.00	0.00	INR Zero Only
62.00	WP SWITCH CUM SOCKET :							
62.01	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, transporation 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							
62.02	250 V, 15 A switch cum socket with plug (Weatherproof)	4	Nos		0.00	0.00	0.00	INR Zero Only
62.03	415V, 63A, Switch & Socket with Plug (No. of Pins 3P +N+ E), (Weather proof)	3	Nos		0.00	0.00	0.00	INR Zero Only
63.00	EARTHING AND LIGHTNING PROTECTION							

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63.01	Supply, Installation, Testing & Commissioning of 100 NB, 3.8 M long G.I. pipe Earth Electrode in Earth pit as per PDS attached with TS Including handling, transportation to Erection site, Excavation of Earth pit in all types of soil, back filling of pit with common salt, charcoal / coke and loose Earth after installation of Electrode there in, removal of surplus Earth away from Erection site, consolidation of loose Earth on back filled pit, making of bricks work, Inspection chamber on back filled pit and cover of RCC, there of complete with lifting hook, fixing & connecting inside the chamber of G.I. Earth bracket and other accessories of the Earth Electrode, painting of Earth pit No. and Earthing symbol on the cover, supply of salt, charcoal / coke, bricks, sand, cement, stone chips, reinforcement rods, lifting hook, necessary stainless steel hardware, paints etc. (Excluding supply of G.I. Earth Electrode & its accessories), all works, labour & materials complete as per Drawings, specifications, code & standards and direction of consultant / owner.	10	Nos		0.00	0.00	0.00	INR Zero Only
63.02	Supply, Installation & Commissioning of GI Earth Bus bars (size: 390x50x12mm thick) as per PDS attached with TS Including handling, transportation, drilling of necessary holes/enlargement existing holes as required; all associated work for fixing the Bus bars in position e.g. cutting, leveling, aligning, chipping, grouting, welding bolting etc.; making good of broken/chipped portion on walls /columns by cement plastering. Supply of all necessary hardware (GI), paints, civil masonry materials etc. all work,labour complete as per drawings, specifications, codes and standards and directions of consultant /owner.Hot dip galvanized GI earth bus bar of size 390 x 50 x 12 thick (with min. coating 610gm/sq.m of zinc) with fixing materials as per specifications and direction of Engineer in charge	5	Nos		0.00	0.00	0.00	INR Zero Only
63.03	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	4	Nos.		0.00	0.00	0.00	INR Zero Only
64.00	HT CABLE JOINT (11 KV)							

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64.01	Supply, Making straight-through joint on 11 KV Aluminium XLPE insulated armoured screened cable, including the supply of required materials such as cable jointing kit (of heat shrinkable sleeve type of Raychem, materials, labour, tools and tackles, consumables etc., as per drawings, specification and directions of Site Engineer / Engineer-in-Charge. For cables of size upto 3 core x 400 sq. mm Note: Lugs supplied with HT cable joint shall be Al/Cu/Bimetallic (as per cable/bus bar type).							
64.02	11KV (UE) grade XLPE insulated, 3Cx240 (Al)	4	Nos.		0.00	0.00	0.00	INR Zero Only
65.00	HT Cable Termination (11 KV):							
65.01	Supply, termination and connection of following 11KV(UE) Multicore/single core, XLPE cable termination kit (indoor type), heat shrinkable sleeve type of Raychem make with all accessories, including cutting (tools and accessories for termination should meet the selected standards), stripping of cable insulation providing copper cable end lugs and cable glands as required, restoration of insulation, supplying and providing the cable supporting clamps, straps, cable tags connection to the terminals of HT panel, VFDs, Isolators, transformer, DG etc., earthing of armoring, materials, labour, tools and tackles, consumables etc., as per drawings, specification and directions of Site Engineer / Engineer-in-Charge. Note: Lugs supplied with HT cable termination shall be Al/Cu/Bimetallic (as per cable/bus bar type).							
65.02	11KV (UE) grade XLPE insulated, 3Cx240 (Al)	4	Nos.		0.00	0.00	0.00	INR Zero Only
66.00	GI PIPE							
66.01	Supply, erection & installation of cable conduits made up of GI pipes of medium class 'B' subject to owner's approval in trenches (already made), on walls, concrete structure etc., including supply and installation of all the necessary pipe fittings such as bends, sockets, elbows, tees etc., bending, threading, binding, clamping, providing, spacers, plugs, packings, bushings etc., as required Job complete in all respects including the cost of all labour, tools, material etc. and as per specifications and directions of site engineer / Engineer-in-Charge.							

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66.02	100 mm	10	Meter		0.00	0.00	0.00	INR Zero Only
66.03	50 mm	10	Meter		0.00	0.00	0.00	INR Zero Only
67.00	HDPE PIPE							
67.01	Supply, laying of HDPE 32mm dia 3mm thick as per IS 7238 grade 80, Pipe in trenches / walls / concrete structure / panels etc. as per specifications and drawings & blowing / laying of Optical Fibre Cable in HDPE pipe, carrying out end to end testing of laid Optical fibre cables by taking OTDR traces and submitting the OTDR trace printouts to Site Engineer / Engineer-in-charge. The job includes the supply and installation of required materials such as fixing clamps, screws, tags etc. as required to complete the job in all respects as per drawings and directions of Site Engineer / Engineer-in-charge including cost of all labour, tools & tackles, test instruments, materials etc. The job includes handing over the tested cables to the Telecom / Control System Works Contractor in commissioning of Local Area Network.	1200	Mtrs.		0.00	0.00	0.00	INR Zero Only
67.02	Supply, fabrication, erection, installation of steel structural works of any type and shape such as cable raks, cable trays, push button control posts etc., as required job complete in all respects including the cost of all labour, tools, material etc., complete and as per specifications and directions of site engineer/Engineer-in-Charge.	3000	Kg		0.00	0.00	0.00	INR Zero Only
67.03	Supply, Fabrication & installation of 2 mm thick Al sheet for rain protective hood for outdoor equipment e.g. motors, switch sockets, junction boxes etc.	10	M ²		0.00	0.00	0.00	INR Zero Only
67.04	Supply, Fabrication and Installation of 8mm thick chequered plate in flooring, steps, covers over cable trenches in switch board room, painting with one coats of bitumen paint in the 50% thinner with two coats of black bitumen paints including supply of all consumables and paints.	500	Kg		0.00	0.00	0.00	INR Zero Only
68.00	WP JUNCTION BOX							

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68.01	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.							
68.02	240V, 16A, 4 way junction box with 4 cable entries (4 x 3/4") at bottom & 20 nos. terminals.	5	Nos.		0.00	0.00	0.00	INR Zero Only
68.03	Supplying and spreading of approved quality fine dry river sand in cable trenches including the cost of all material, transport, load and lift charges, labour, tools and tackles, consumables etc., as per drawings, specification and directions of Site Engineer / Engineer-in-Charge.	150	M3		0.00	0.00	0.00	INR Zero Only
68.04	Supply laying, sperading of Class B 9"x 4.25" x 3" bricks for cable trenches soling with sand filling in the interstices, in cable trenches for protection including the cost of all brick and sand, labour, load and lift charges, tools and tackles etc., as per drawings, specification and directions of Site Engineer / Engineer-in-Charge.	15000	Nos		0.00	0.00	0.00	INR Zero Only
68.05	Supply, erection & installation of MS cable markers, including excavation, installation of the markers, cement concrete grouting, backfilling, materials, labour, tools and tackles, consumables etc., as per drawings, specification and directions of Site Engineer / Engineer-in-Charge.	50	Nos.		0.00	0.00	0.00	INR Zero Only
69.00	TERMINATION OF CABLES (LT)							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

Name of the Bidder/ Bidding Firm / Company :								
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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
69.01	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.							
69.02	3.5C x 400 mm ² (Al)	16	Nos		0.00	0.00	0.00	INR Zero Only
69.03	3.5C x 120 mm ² (Al)	2	Nos		0.00	0.00	0.00	INR Zero Only
69.04	3.5C x 70 mm ² (Al)	10	Nos		0.00	0.00	0.00	INR Zero Only
69.05	3.5C x 50 mm ² (Al)	2	Nos		0.00	0.00	0.00	INR Zero Only
69.06	3.5C x 25 mm ² (Al)	8	Nos		0.00	0.00	0.00	INR Zero Only
69.07	4C x 4 mm ² (Cu)	10	Nos		0.00	0.00	0.00	INR Zero Only
69.08	4C x 6 mm ² (Cu)	4	Nos		0.00	0.00	0.00	INR Zero Only
69.09	4C x 16 mm ² (Al)	8	Nos		0.00	0.00	0.00	INR Zero Only
69.10	3C x 120 mm ² (Al)	8	Nos		0.00	0.00	0.00	INR Zero Only
69.11	3C x 70 mm ² (Al)	8	Nos		0.00	0.00	0.00	INR Zero Only
69.12	3C x 25 mm ² (Al)	10	Nos		0.00	0.00	0.00	INR Zero Only
69.13	3C x 6 mm ² (Cu)	12	Nos		0.00	0.00	0.00	INR Zero Only
69.14	3C x 4 mm ² (Cu)	4	Nos		0.00	0.00	0.00	INR Zero Only
69.15	3C x 2.5 mm ² (Cu)	50	Nos		0.00	0.00	0.00	INR Zero Only
69.16	5C x 2.5 mm ² (Cu)	58	Nos		0.00	0.00	0.00	INR Zero Only
69.17	7C x 2.5 mm ² (Cu)	110	Nos		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

NAME OF THE BIDDER/ BIDDING FIRM / COMPANY :								
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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
69.18	12C x 2.5 mm ² (Cu)	8	Nos		0.00	0.00	0.00	INR Zero Only
69.19	1Cx185 mm ² (Al)	4	Nos		0.00	0.00	0.00	INR Zero Only
69.20	6 fiber, multi mode optical fiber cable along with all accessories like receiver, converter, transmiitor, patch card etc	4	Set		0.00	0.00	0.00	INR Zero Only
70.00	Supply, Installation , testing and commissioning of 240V, 1-Ph, Wall Mounting Fans / Ceiling Fans (with Electronic Regulator) / Man Cooler Fans etc on wall / Ceiling / Steel Structure including supply, fabricating and grouting of MS Frame / Hooks and other hardware etc.	4	Nos.		0.00	0.00	0.00	INR Zero Only
70.01	Supply,Installation, testing and commissioning of 240V room lighting boards along with required wiring (concealed in PVC conduit / on wall) having following features:-							
70.02	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	4	Nos.		0.00	0.00	0.00	INR Zero Only
70.03	1 no. Switch & Socket for 6 / 16 Amp 5 nos. 6 Amp switches for lighting	4	Nos.		0.00	0.00	0.00	INR Zero Only
71.00	CONTROL & INSTRUMENTATION WORKS (PART- III)							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
71.01	Supply , erection, testing & commissioning of PLC BASED CONTROL PANEL WITH REDUNDANT PROCESSORS AND I/O MODULES with spares as per SEC VI-10.0 elsewhere attached with the tender at the unit including supervision for termination of control cables & erection of panels, looptesting, and commissioning of complete control systems along with support for interfacing with existing/other system and field instrumentation systems for operation of unit in remote & auto mode. This shall include development of control logics, database, MMI screens etc. for commisosing of the system complete as per drawings / specifications and acceptance of system by Owner. Supply of all labour, consumables, tools, services rendered etc. shall be in the contractors's scope.	1	SET		0.00	0.00	0.00	INR Zero Only
71.02	INSTRUMENTATION CABLE with spares as per SEC VI-10.0 elsewhere attached with the tender Supply & Laying of all type of cables LT (PVC / XLPE / Armoured/Unarmoured/Power/ Control/ Signalling) in trenches, in cable racks, in trays, in protective pipes, poles,columns, in conduits, in panels and on structures etc.;including the supply and installation of all required materials such as fixing clamps ,screws, cable straps, tags etc. as required (other than the supply of the conduits, cables, pipes, cable racks, trays, poles, structures and panels) complete in all respect, including cost of all labour, tools, consumable materials etc. and cutting the cables in required lengths as per specification and directions of Site Engineer / Engineer-in-Charge							
71.03	2PX1.5 Sq.mm (F)	1200	Mtrs		0.00	0.00	0.00	INR Zero Only
71.04	2PX1.5 Sq.mm (G)	700	Mtrs		0.00	0.00	0.00	INR Zero Only
71.05	4PX1.5 Sq.mm (G)	2200	Mtrs		0.00	0.00	0.00	INR Zero Only
71.06	8PX1.5 Sq.mm (G)	400	Mtrs		0.00	0.00	0.00	INR Zero Only
71.07	12PX1.5 Sq.mm (G)	600	Mtrs		0.00	0.00	0.00	INR Zero Only
71.08	C&I Instrumentation cable Glands with spares as per SEC VI-10.0 (Supply ,Installation ,Erection & Comissioning)							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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71.09	Cable Gland (Double Compression) CBW01SS	500	No.		0.00	0.00	0.00	INR Zero Only
71.10	Cable Gland (Double Compression) CBW01S	250	No.		0.00	0.00	0.00	INR Zero Only
71.11	Cable Gland (Double Compression) CBW01	250	No.		0.00	0.00	0.00	INR Zero Only
71.12	Cable Gland (Double Compression) CBW03	120	No.		0.00	0.00	0.00	INR Zero Only
71.13	20A, Float Cum Boost (2x100%) 24V DC Battery Charger with Ni-Cd batteries for PLC based Control Panel with spares as per SEC VI-10.0 elsewhere attached with the tender	1	Set		0.00	0.00	0.00	INR Zero Only
71.14	JUNCTION BOX with spares as per SEC VI-10.0 elsewhere attached with the tender(Fibre Glass Reinforced Polyester) Supply,Installation & Testing of junction box, explosion proof / flame proof junction boxes for marshalling of control cables, terminating the cables at field and control panel end, mounting the junction boxes, connecting to earthing grid by supplying and installing all the required materials such as supporting structure, cement concrete, painting, GI wire etc.							
71.15	12 TB's	16	Nos.		0.00	0.00	0.00	INR Zero Only
71.16	24 TB's	12	Nos.		0.00	0.00	0.00	INR Zero Only
71.17	36 TB's	3	Nos.		0.00	0.00	0.00	INR Zero Only
71.18	Supply/Erection / installation/testing and commissioning (Including drilling of blind flange where ever required, impulse piping, glanding, and termination, erection of Statction & Supports Canopy etc) of Pressure Transmitter with spares as per SEC VI-10.0 elsewhere attached with the tender	12	Nos.		0.00	0.00	0.00	INR Zero Only
71.19	Supply/Erection / installation/testing and commissioning (Including drilling of blind flange where ever required, impulse piping, glanding, and termination, erection of Statction & Supports Canopy etc) of Level Transmitterwith spares as per SEC VI-10.0 elsewhere attached with the tender	5	Nos.		0.00	0.00	0.00	INR Zero Only
71.20	Supply/Erection / installation/testing and commissioning (Including drilling of blind flange where ever required, impulse piping, glanding, and termination, erection of Statction & Supports Canopy etc) of Level Switch with spares as per SEC VI-10.0 elsewhere attached with the tender	4	Nos.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNPM/PC-183/E/206/NCB

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71.21	Supply/Erection / installation, testing and commissioning of PRESSURE Gauges (PG) with spares as per SEC VI-10.0. as per drawings, recoomendations of OEM and directions of Engineer in-charge/ Site engineer	25	Nos.		0.00	0.00	0.00	INR Zero Only
71.22	Supply/Erection / installation, testing and commissioning of Diaphragm PRESSURE Gauges (PG) with seal as per drawings, recoomendations of OEM and directions of Engineer in-charge/ Site engineer	3	Nos.		0.00	0.00	0.00	INR Zero Only
71.23	Supply/Erection / installation, testing and commissioning (Including drilling of blind flange where ever required, impulse piping, glanding, and termination, erection of Statction & Supports Canopy etc) of Diaphragm Seal Pressure Transmitter with spares as per SEC VI-10.0.	3	Nos.		0.00	0.00	0.00	INR Zero Only
71.24	Instrument Fittings with spares as per SEC VI-10.0 elsewhere attatched with the tender (Supply ,Installation & Erection)							
71.25	2 Valve Manifold, SS316, 300 LBS, 1/2" NPT (F)	12	Nos.		0.00	0.00	0.00	INR Zero Only
71.26	3 Way Gauge Cock SS316L,300 LBS 1/2" NPT (F)	12	Nos.		0.00	0.00	0.00	INR Zero Only
71.27	Drain Valve, (Ball Valve) CS,300 LBS 1/2" NPT (F)	12	Nos.		0.00	0.00	0.00	INR Zero Only
71.28	Male Connector,SS316,300 LBS,1/2" NPT (M)X1/2" OD	25	Nos.		0.00	0.00	0.00	INR Zero Only
71.29	Needle Valve, SS, 1/2" NPT (F)	25	Nos.		0.00	0.00	0.00	INR Zero Only
71.30	Nipple (150 mm Long) ,SS316,300 LBS 1/2" NPT (M)X1/2" OD	25	Nos.		0.00	0.00	0.00	INR Zero Only
71.31	Snubber SS316,300 LBS,1/2" NPT (F)x(M)	25	Nos.		0.00	0.00	0.00	INR Zero Only
71.32	SS TUBE ,SS316	25	Mtrs		0.00	0.00	0.00	INR Zero Only
71.33	Tee ,SS316, 300 lbs ,1/2" OD	25	Nos.		0.00	0.00	0.00	INR Zero Only
71.34	15 nb MS Socket	25	Nos.		0.00	0.00	0.00	INR Zero Only
71.35	Operator & Engineering Work Station with spares as per SEC VI-10.0 elsewhere attatched with the tender. (Supply , Installation & testing)							
71.36	CPU Including Monitor, UPS, keyboard and Accessories	2	No.		0.00	0.00	0.00	INR Zero Only
71.37	Laser B/W Printer (A4 size)	1	No.		0.00	0.00	0.00	INR Zero Only
72.0	SUPPLY ,ERECTION OF MECHANICAL ITEMS (MOVING MACHINERY/SKID/AGITATOR) - (PART- IV)							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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73.0	SUPPLY, TESTING, COMMISSIONING OF ELECTRIC MOTOR DRIVEN MACHINERY/SKID/AGITATOR WITH ASSOCIATED INSTRUMENTATION AND CONTROL SYSTEM (Supply of Pumps & Its Drive Motor Etc. As per Technical Specification of NIT(PC183/PNMC-SEC VI-5.0).							
73.01	RECOVERY WATER PUMP	2	Nos		0.00	0.00	0.00	INR Zero Only
73.02	RECYCLE WATER PUMP	2	Nos		0.00	0.00	0.00	INR Zero Only
73.03	SLUDGE PUMP	2	Nos		0.00	0.00	0.00	INR Zero Only
73.04	FLASH MIXER	1	Nos		0.00	0.00	0.00	INR Zero Only
74.0	SPARES							
75.0	AGITATOR							
75.01	Complete set of all Bearings	1	Set		0.00	0.00	0.00	INR Zero Only
75.02	Complete set of High speed flexible coupling with bushes / elements.	1	Set		0.00	0.00	0.00	INR Zero Only
75.03	High speed Coupling bushes	3	Sets		0.00	0.00	0.00	INR Zero Only
75.04	Complete set of Low speed flexible coupling with bushes / elements.	1	Set		0.00	0.00	0.00	INR Zero Only
75.05	Low speed Coupling bushes	3	Sets		0.00	0.00	0.00	INR Zero Only
75.06	Complete set of all Oil seal for gear box	1	Set		0.00	0.00	0.00	INR Zero Only
75.07	Complete set of all Oil seal for bearing housing	4	Sets		0.00	0.00	0.00	INR Zero Only
75.08	Complete set of Seal packing.	2	Sets		0.00	0.00	0.00	INR Zero Only
75.09	PUMPS							
75.10	Impeller	1	Set		0.00	0.00	0.00	INR Zero Only
75.11	Impeller locking nut	2	Sets		0.00	0.00	0.00	INR Zero Only
75.12	Wear Rings complete set	1	Set		0.00	0.00	0.00	INR Zero Only
75.13	Shaft with keys	1	No		0.00	0.00	0.00	INR Zero Only
75.14	Shaft Sleeve	1	Set		0.00	0.00	0.00	INR Zero Only
75.15	Complete Set of Mech. Seal	1	Set		0.00	0.00	0.00	INR Zero Only
75.16	Constant level Oiler	2	Sets		0.00	0.00	0.00	INR Zero Only
75.17	Deflectors	2	Sets		0.00	0.00	0.00	INR Zero Only
75.18	Complete set of coupling with element and fasteners	1	Set		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

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Contract No: PNP/PC-183/E/206/NCB

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75.19	Complete set of all Bearings	1	Set		0.00	0.00	0.00	INR Zero Only
75.20	Complete set of Gaskets & 'O' Rings	2	Set		0.00	0.00	0.00	INR Zero Only
75.21	Throat Bushing	1	No		0.00	0.00	0.00	INR Zero Only
75.22	Throttle Bushing	1	No		0.00	0.00	0.00	INR Zero Only
75.23	Complete set of Oil Seals	2	Sets		0.00	0.00	0.00	INR Zero Only
75.24	Leak-off valve-gaskets, 'O' Rings and springs	2	Sets		0.00	0.00	0.00	INR Zero Only
76	ERECTION/INSTALLATION OF PUMPS ALONG WITH COMPLETE ASSEMBLY: Unloading, transportation, Erection, alignment of Equipments/SKID/Machinery/Agitator etc. from Owner/ Consultant's/Contractor's stores/storage yard; reinstatement of structures, building sheets (if required) etc., to facilitate for erection, assembly of parts / sub-assemblies; checking, cleaning, chipping and preparing the top of foundation and cleaning of pockets for erection; placing the equipments, machinery & SKID etc., on foundation or structure; leveling, alignment, bolting, welding, grouting(shall be paid seperatly); first maintenance & carrying out testing / carrying out alignment, trial runs and start up runs and providing manpower for testing, rectifying and defect and completion of works in all respects including earthing protection by way of fixing strips and electrodes as per drawings & specifications, completion of all jobs as per drawings, scope of work & technical conditions as defined in the enquiry specifications, standards, codes and all jobs are to be carried out as per the instruction and to the full satisfaction of the Engineer-in-Charge/Owner. Job also includes supplying of all types of tools, tackles, lifting arrangements, tractor trolley & equipments, machineries all consumables and labour to complete the job in a workman like manner, erection and removal of steel scaffolding wherever required, Grouting shall be paid seperatly.	15	MT		0.00	0.00	0.00	INR Zero Only
77.0	SUPPLY ,ERECTION/INSTALLATION OF EOT CRANE WITH COMPLETE ASSEMBLY:							
77.01	Supply,Loading, Unloading, transportation, Erection, Testing & Commissioning of 02 NOS having 5.0M T capacity each including its drives and all other relevant electrical items as per TS ATTACHED IN TENDER.This shall also include testing, commissioning to complete electrical equipment as required in TS & other associated work if any.	2	Lot		0.00	0.00	0.00	INR Zero Only
77.02	Note:1-01 EOT FOR WATER PUMP HOUSE + 01EOT FOR RECYCLE WATER PUMP HOUSE 2-Handling including lifting, transportation from Owner Stores to CONTRACTOR's site is in scope of erection contractor.							

Item Rate BoQ

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

Name of the Bidder/ Bidding Firm / Company :	
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SCHEDULE OF RATE (Rev. 1) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
77.03	Supply & Installation of Split AC (1.5 TON OF Each) including all its associated work with other relevant electrical items as per TS ATTACHED IN TENDER..	2	Nos		0.00	0.00	0.00	INR Zero Only
77.04	GROUTING:							
77.05	Machineries with ≥500 H.P., Araldite of M/s CIBA Geigy or equivalent or SHRINKOM - 20 or Conbextra GP-2 shall be used. However, for balance equipments / machineries and structurals ordinary 1:1:2 cement grout mix added with anti-shrinkage compound shall be used without any extra cost to Owner.							
77.06	SHRINKOMP-20 Or Conbextra GP-2	10	M ³		0.00	0.00	0.00	INR Zero Only
77.07	EPOXY GROUTING	1	M ³		0.00	0.00	0.00	INR Zero Only
77.08	Clarifier along with dosing system (Package Item)							
77.09	Supply ,Installation & Testing & Pre-Commissioning & Commissioning of above package item as per Process design philosophy & P&ID. The scope of supply for the Package items i.e. Clarifier along with Dosing System" shall include but not limited to the items as listed following. • RCC Clarifier along with Agitator & Scrapper – One nos. • Poly Electrolyte Dosing system (Two RCC Tanks + Two Agitators + Two Pumps) • Alum Dosing system (Two RCC Tanks + Two Agitators + Two Pumps) • Lime Dosing system (Two RCC Tanks + Two Agitators + Two Pumps) • Over head water Tank (FRP) – One nos.	1	Lot		0.00	0.00	0.00	INR Zero Only
78.00	SUPPLY OF PIPING ITEMS							
79.00	FOR PIPING(AG/UG)							
79.01	"Supply of as given piping material as per given specifications/drags/docs, for SLURRY SYSTEM, RECOVERY SYSTEM & for SILO SYSTEM, handling, loading/unloading , transportation, and safe storage including other materials like valve, fittings, flanges, nut/bolt, gasket etc. to Contractor's stock yard/workshop/work-site including preliminary activities, preparation of drawings, wherever required for crossing etc. Handling, stacking, stringing of the piping material, Carrying out inspection of materials including at the time of laying/ installation.							
80.00	SLURRY SYSTEM							
80.01	600 NB (12.5 mm thk.) Motor MS ERW Fe 410 grade pipe as per IS: 3589	24	Mtr		0.00	0.00	0.00	INR Zero Only
80.02	600 NB Elbow 90 degree, 12.5 mm ASTM A234 WPB-WLDD,ASME B16.9	2	Nos		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
80.03	600 dia Motor operated Plug valve for sump isolation (2 sumps) with Limit Switches for motor cut-off.	2	Nos		0.00	0.00	0.00	INR Zero Only
80.04	600 NB Manual operated Knife Gate Vave, rating shall be PN10	1	No		0.00	0.00	0.00	INR Zero Only
80.05	600 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	5	Nos		0.00	0.00	0.00	INR Zero Only
80.06	300 NB (9.52mm thk.) MS ERW Fe 410 grade pipe as per IS: 3589 for Slurry disposal into Ash Dyke	1380	Mtr		0.00	0.00	0.00	INR Zero Only
80.07	300NB, 90 Deg - 3D Radius Alloy Cast Iron Bend with 450 BHN Hardness for above Slurry Disposal Pipe	10	Nos		0.00	0.00	0.00	INR Zero Only
80.08	300NB, Alloy Cast Iron Lateral with 450 BHN Hardness for above Slurry Diposal Pipe	4	Nos		0.00	0.00	0.00	INR Zero Only
80.09	300 NB sleeve coupling (Followers and Sleeves shall be MS Fabricated, the fasteners shall be Galvanized and the gasket shall be Neoprene)	129	Nos		0.00	0.00	0.00	INR Zero Only
80.10	300NB Motor operated Knife Gate Valve, Uni Direction type at Slurry Pump Suction suitable slurry duty and the rating shall be PN10.	2	Nos		0.00	0.00	0.00	INR Zero Only
80.11	300NB Motor operated Knife Gate Valve, bi-directional type at Slurry Pump discharge suitable for slurry duty and the rating shall be PN10.	2	Nos		0.00	0.00	0.00	INR Zero Only
80.12	300NB Manual operated Knife Gate Valve, bi-directional type at Slurry Pump discharge interconnection suitable for slurry duty and the rating shall be PN10.	5	Nos		0.00	0.00	0.00	INR Zero Only
80.13	300NB Manual operated Knife Gate Valve, bi-directional type at Slurry line discharge at dyke end suitable for slurry duty and the rating shall be PN10.	4	Nos		0.00	0.00	0.00	INR Zero Only
80.14	100 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	20	Mtr		0.00	0.00	0.00	INR Zero Only
80.15	100 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	10	Nos		0.00	0.00	0.00	INR Zero Only
80.16	100 NB Blind Flanges, 150#, ASME B16.5, ASTM A105	2	Nos		0.00	0.00	0.00	INR Zero Only
80.17	100 NB X 80 NB REDUCER CONC., Heavy thick X Heavy thick, ASTM A234 WPB-WLDD,ASME B16.9	2	Nos		0.00	0.00	0.00	INR Zero Only
80.18	100 NB Manual operated Knife Gate Vave / Plug Valve for Drain Pump discharge.	2	Nos		0.00	0.00	0.00	INR Zero Only
80.19	100 NB Non Return Valve for Drain Pump Discharge.	2	Nos		0.00	0.00	0.00	INR Zero Only
80.20	50 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	100	Mtr		0.00	0.00	0.00	INR Zero Only
80.21	65 NB Cast Iron Body Gate Valve for Seal Water Pump Suction,	2	Nos		0.00	0.00	0.00	INR Zero Only
80.22	50 NB Gun Metal Body Gate Valve for Seal Water Pump Discharge,	2	Nos		0.00	0.00	0.00	INR Zero Only
80.23	50 NB Gun Metal Body Non Return Valve for Seal Water Pump Discharge	2	Nos		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

Name of the Bidder/ Bidding Firm / Company :	
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SCHEDULE OF RATE (Rev. 1) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
80.24	25 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	50	Mtr		0.00	0.00	0.00	INR Zero Only
80.25	25 NB Gun Metal Body Globe Valve	4	Nos		0.00	0.00	0.00	INR Zero Only
80.26	25 NB Gun Metal Body Gate Valve.	2	Nos		0.00	0.00	0.00	INR Zero Only
80.27	25 NB Gun Metal Body Non Return Valve	2	Nos		0.00	0.00	0.00	INR Zero Only
80.28	25 NB SS 316 body Two way Solenoid Valve suitable for 24V DC Supply	2	Nos		0.00	0.00	0.00	INR Zero Only
80.29	Miscellaneous Pipe supports for above specified system pipings	4	Ton		0.00	0.00	0.00	INR Zero Only
80.30	GI Bolts and nuts as per IS-1363 and 3mm thk. minimum Rubber Gasket	2	Ton		0.00	0.00	0.00	INR Zero Only
80.31	20 NB Nipple (P-P)	40	Nos		0.00	0.00	0.00	INR Zero Only
80.32	20 NB Blind Flange	20	Nos		0.00	0.00	0.00	INR Zero Only
80.33	20 NB Flange SW	20	Nos		0.00	0.00	0.00	INR Zero Only
80.34	20 NB Manual operated Gate Vave	20	Nos		0.00	0.00	0.00	INR Zero Only
80.35	15 NB Nipple (P-P)	2	Nos		0.00	0.00	0.00	INR Zero Only
80.36	15 NB Nipple (P-THD)	2	Nos		0.00	0.00	0.00	INR Zero Only
80.37	15 NB Manual operated Gate Vave	2	Nos		0.00	0.00	0.00	INR Zero Only
80.38	15 NB Blind Flange	2	Nos		0.00	0.00	0.00	INR Zero Only
80.39	15 NB Flange SW	2	Nos		0.00	0.00	0.00	INR Zero Only
80.40	25 NB Manual operated Gate Vave	10	Nos		0.00	0.00	0.00	INR Zero Only
80.41	25 NB Nipple (P-P)	20	Nos		0.00	0.00	0.00	INR Zero Only
80.42	25 NB Blind Flange	10	Nos		0.00	0.00	0.00	INR Zero Only
80.43	25 NB Flange SW	10	Nos		0.00	0.00	0.00	INR Zero Only
81.00	RECOVERY SYSTEM							
81.01	900 NB 17.5 mm thk MS ERW Fe 410 grade pipe as per IS: 3589	100	Mtr		0.00	0.00	0.00	INR Zero Only
81.02	900 NB Motor optd. Butterfly Valve at recovery water sump inlet	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.03	900 NB Flanges, SORF, 150#, ASME B16.47 Seiries B, ASTM A105	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.04	600 NB, 8 thk. MS ERW Fe 410 grade pipe as per IS: 3589 (Rubber lined inside) enclosed with RCC from Flash mixer to Clarifier	60	Mtr		0.00	0.00	0.00	INR Zero Only
81.05	200 NB, 6.35 thk. MS ERW Fe 410 grade pipe as per IS: 3589 enclosed with RCC / CI Class D Pipe from Clarifier to Sludge Sump	60	Mtr		0.00	0.00	0.00	INR Zero Only

Item Rate BoQ

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
81.06	300 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589 for Pump Suction from Water Sumps	60	Mtr		0.00	0.00	0.00	INR Zero Only
81.07	300 NB Elbow 90 degree, 6.4 mm ASTM A234 WPB-WLDD,ASME B16.9	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.08	300 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	12	Nos.		0.00	0.00	0.00	INR Zero Only
81.09	300 NB X 300 NB TEE, 6.4 mm X 6.4 mm, ASTM A234 WPB-WLDD,ASME B16.9,	3	Nos.		0.00	0.00	0.00	INR Zero Only
81.10	300 NB X 250 NB REDUCER ECC., 6.4 mm X 6.4 mm, ASTM A234 WPB-WLDD,ASME B16.9,	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.11	300 NB X 200 NB REDUCER ECC., 6.4 mm X 6.4 mm, ASTM A234 WPB-WLDD,ASME B16.9,	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.12	250 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589	6	Mtr		0.00	0.00	0.00	INR Zero Only
81.13	250 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	3	Nos.		0.00	0.00	0.00	INR Zero Only
81.14	200 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589 for Pump discharge up to the discharge point	1100	Mtr		0.00	0.00	0.00	INR Zero Only
81.15	200 NB Elbow 90 degree, 6.4 mm ASTM A234 WPB-WLDD,ASME B16.9	10	Nos.		0.00	0.00	0.00	INR Zero Only
81.16	200 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	26	Nos.		0.00	0.00	0.00	INR Zero Only
81.17	200 NB Blind Flanges, 150#, ASME B16.5, ASTM A105	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.18	200 NB X 200 NB TEE, 6.4 mm X 6.4 mm, ASTM A234 WPB-WLDD,ASME B16.9,	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.19	200 NB X 150 NB REDUCER CONC., 6.4 mm X 6.4 mm, ASTM A234 WPB-WLDD,ASME B16.9,	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.20	200 NB X 25 NB, SOCKOLET, CS ASTM A105,MSS SP 97,	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.21	300 NB, Manually operated Cast Iron body Gate Vave at Recovery / Recycle Water Pump Suction suitable for water duty and the rating shall be PN10	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.22	200 NB, Manually operated Cast Iron body Butterfly Vave at Recovery / Recycle Water Pump discharge suitable for water duty and the rating shall be PN10	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.23	200 NB Cast Iron body Non Return Vave at Recovery / Recycle Water Pump discharge suitable for water duty and the rating shall be PN10	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.24	300 Dia suction strainers (SS) (Mesh Size 1mm) for Recovery Water and Recycle water pump Suction	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.25	200NB Manually operated PN 10 Class Cast Iron Body Gate Valve with 2m extended Spindle	1	No.		0.00	0.00	0.00	INR Zero Only
81.26	150 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	6	Mtr		0.00	0.00	0.00	INR Zero Only
81.27	150 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.28	Pipe sleeves - SS 316 fabricated - 40NB x 500mm long with ANSI B 16.5 150 Class flange on one side along with matching flange	18	Nos.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
81.29	150 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	4	Nos.		0.00	0.00	0.00	INR Zero Only
81.30	50 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I) with same rating fittings from FRP tank to Dosing Baskets, Sludge sumps	120	Mtr		0.00	0.00	0.00	INR Zero Only
81.31	50 NB Elbow 90 degree, 6.4 mm ASTM A234 WPB-WLDD,ASME B16.9	22	Nos.		0.00	0.00	0.00	INR Zero Only
81.32	80 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	12	Mtr		0.00	0.00	0.00	INR Zero Only
81.33	50 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	40	Nos.		0.00	0.00	0.00	INR Zero Only
81.34	50 NB X 50 NB TEE, Heavy thick X Heavy thick, ASTM A234 WPB-WLDD,ASME B16.9,	9	Nos.		0.00	0.00	0.00	INR Zero Only
81.35	50 NB X 40 NB REDUCER CONC., Heavy thick X Heavy thick, ASTM A234 WPB-WLDD,ASME B16.9	5	Nos.		0.00	0.00	0.00	INR Zero Only
81.36	40 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I) with same rating fittings from FRP tank to Dosing Baskets, Sludge sumps	50	mtr		0.00	0.00	0.00	INR Zero Only
81.37	40 NB Flanges, SORF, 150#, ASME B16.5, ASTM A105	10	Nos.		0.00	0.00	0.00	INR Zero Only
81.38	40 NB Blind Flanges, 150#, ASME B16.5, ASTM A105	10	Nos.		0.00	0.00	0.00	INR Zero Only
81.39	50NB PN 6 CPVC Pipe with same rating Fittings & Flanges as required from Chemical tanks to Recovery water sump	150	mtr		0.00	0.00	0.00	INR Zero Only
81.40	40NB PN 6 CPVC Pipe with same rating Fittings & Flange as required from Chemical tanks to Flash mixer / Parshall flume / Drain	150	mtr		0.00	0.00	0.00	INR Zero Only
81.41	25 NB PN 6 CPVC Pipe with same rating Fittings & Flanes as required	250	mtr		0.00	0.00	0.00	INR Zero Only
81.42	50 NB Manual operated Gun Metal body Gate Vave for isolation of FRP tank, agitator water tanks, sludge sumps and Chemical line flushing connection	11	Nos.		0.00	0.00	0.00	INR Zero Only
81.43	40NB PN 6 class Ebonite lined Diaphargm valves for chemical tank outlet, chemical pump discharge and tank drain connection, along with companion Flanges	24	Nos.		0.00	0.00	0.00	INR Zero Only
81.44	40NB PN 6 class Ebonite lined Non Return valves for chemical pump discharge, along with companion Flanges	6	Nos.		0.00	0.00	0.00	INR Zero Only
81.45	100 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	20	Mtr.		0.00	0.00	0.00	INR Zero Only
81.46	100 NB Elbow 90 Heavy Grade, ASTM A234 WPB-WLDD,ASME B16.9	5	Nos.		0.00	0.00	0.00	INR Zero Only
81.47	100 NB Elbow 45 Heavy Grade, ASTM A234 WPB-WLDD,ASME B16.9	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.48	100 NB Manual operated Knife Gate Vave / Plug Valve for Sludge Pump discharge,	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.49	100 NB Non Return Valve for Sludge Pump Discharge	2	Nos.		0.00	0.00	0.00	INR Zero Only
81.50	GI Bolts and nuts as per IS-1363 and 3mm thk. minimum Rubber Gasket	2	Ton		0.00	0.00	0.00	INR Zero Only

Item Rate BoQ

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

Name of the Bidder/ Bidding Firm / Company :	
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SCHEDULE OF RATE (Rev. 1) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
82.00	SILO SYSTEM							
82.01	300 NB manually optd. Knife gate valve - Ash Silo (PN 6 Class)	2	Nos.		0.00	0.00	0.00	INR Zero Only
82.02	300 NB cyld. optd. Knife gate valve - Ash Silo (PN 6 Class),	1	Nos.		0.00	0.00	0.00	INR Zero Only
82.03	300 NB manually optd. Knife gate valve - Slag Silo (PN 6 Class)	2	Nos.		0.00	0.00	0.00	INR Zero Only
82.04	300 NB cyld. optd. Knife gate valve - Slag Silo (PN 6 Class)	1	Nos.		0.00	0.00	0.00	INR Zero Only
82.05	25NB SS 304 Sch 40 pipe from IA terminal point at LSTK Silo Area to Dyke Area Silo Area Air receiver and Air Receiver to Knife Gate Valve with SS fittings as required	500	m		0.00	0.00	0.00	INR Zero Only
82.06	25NB SS forged Ball Valve, along with companion Flanges as required	4	Nos.		0.00	0.00	0.00	INR Zero Only
82.07	SS 316 body 5/4 way - 1/4" Solenoid Valve suitable for 24V DC power Supply with SS fittings for connection with Pneumatic Cylinder	2	Set		0.00	0.00	0.00	INR Zero Only
83.00	SAFETY / FIRE FIGHTING SYSTEM							
83.01	Safety Shower and Eyewash	2	Set		0.00	0.00	0.00	INR Zero Only
83.02	Fire water Piping system including Hydrants, Monitors, Valves, Hose Boxes, Hoses, Nozzles, Hose reels, couplings and accessories as per TAC /NFPA/NBC requirements for yard areas and buildings, as applicable	1	Lot		0.00	0.00	0.00	INR Zero Only
83.03	Fire Extinguishers as per TAC /NFPA/NBC requirements, as applicable	1	Lot		0.00	0.00	0.00	INR Zero Only
83.04	Fire water spray/sprinkler system alongwith accessories as per TAC /NFPA/NBC requirements, as applicable	1	Lot		0.00	0.00	0.00	INR Zero Only
83.05	Gas flooding system, as applicable	1	Lot		0.00	0.00	0.00	INR Zero Only
83.06	Fire fighting system Personnel Protection Equipments, as applicable	1	Lot		0.00	0.00	0.00	INR Zero Only
83.07	Fire alarm & detection system as per tender requirements, as applicable	1	Lot		0.00	0.00	0.00	INR Zero Only
83.08	Note: 1-Quantities mentioned in SOR are indicative and not exhaustive in nature.Payment shall be made as per actual quantity used/certified at site.2-Piping Spares shall be considered as per Section 10.0 of NIT(Part-ii) rate to be quoted accordingly in above mentioned qty as applicable.							
84.00	FABRICATION & ERECTION OF PIPING:							
85.00	FABRICATION & ERECTION OF PIPING(AG)							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
85.01	Transportation of all piping materials from Contractor (Own) storage point to work site/shop including from shop to work site, cleaning, stacking, surface preparation/shot blasting of piping, supply & application of paints and primers (including all coats-primer, intermediate & final coats), for piping and equipments as per enclosed painting specification in NIT(TS-2001), prefabrication / fabrication at shop and/or site including rubber lining (as per NIT spec), RCC on pipes as per spec, marking, cutting, edge preparation, beveling, bending, etc., providing all branch connections, re-enforcement pads, threading etc., welding of all fitting and specials, erection including lifting, placing, installing of supports etc. at all levels and locations (payment shall be made seperatly), leveling, aligning, jointing of flanges including insertion of gaskets, orifice plates, spectacle blinds etc., bolting, joining by threading or welding, ,connecting the system to the required other system, equipments, pumps, including hook up of new lines with existing lines, and welding of Tie-in points as per tie-in list, installation of all in line fittings / all type of valves / Instruments / strainers / filters / spray nozzles / traps, safety / control valves rapture disc, flow meters, flow orifice etc. as applicable including shifting to & collection from painting contractor's shop for erection, hydro testing, flushing and blowing, seal/leak testing and making ready for commissioning as per drawings, specification ,standards ,codes, instructions of Owner/Consultant and scope of work defined in NIT. Welding shall include all the examination and testing required such as but not limited to DP, radiography, ultrasonic, magnaflux /dye check etc and pre and post heat treatment wherever required.The cost towards radiography only shall be paid separately as per given in SOR . Unit rates shall include the cost of supervision, labour, overheads/profits, consumables, and other associated arrangements required to execute all the related activities.The quoted rates shall include seal welding of thermocouples, Orifice flange plug, nipple, and hydro testing drain and vents caps.							
86.00	SLURRY SYSTEM, RECOVERY SYSTEM & SILO SYSTEM :							
86.01	PIPE: MS, ERW PIPE AS PER GIVEN SPECIFICATION.							
86.02	25 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	60	Mtr.		0.00	0.00	0.00	INR Zero Only
86.03	40 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I) with same rating fittings from FRP tank to Dosing Baskets, Sludge sumps	55	mtr		0.00	0.00	0.00	INR Zero Only
86.04	50 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	120	Mtr.		0.00	0.00	0.00	INR Zero Only
86.05	80 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	12	Mtr		0.00	0.00	0.00	INR Zero Only
86.06	100 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	30	Mtr.		0.00	0.00	0.00	INR Zero Only
86.07	150 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	6	Mtr		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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SCHEDULE OF RATE (Rev. 1) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
86.08	200 NB, 6.35 thk. MS ERW Fe 410 grade pipe as per IS: 3589 enclosed with RCC / CI Class D Pipe from Clarifier to Sludge Sump	65	Mtr.		0.00	0.00	0.00	INR Zero Only
86.09	200 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589 for Pump discharge up to the discharge point	1200	Mtr.		0.00	0.00	0.00	INR Zero Only
86.10	250 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589	6	Mtr.		0.00	0.00	0.00	INR Zero Only
86.11	300 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589 for Pump Suction from Water Sumps	65	Mtr.		0.00	0.00	0.00	INR Zero Only
86.12	300 NB (9.52mm thk.) MS ERW Fe 410 grade pipe as per IS: 3589 for Slurry disposal into Ash Dyke	1400	Mtr.		0.00	0.00	0.00	INR Zero Only
86.13	600 NB, 8 thk. MS ERW Fe 410 grade pipe as per IS: 3589 (Rubber lined inside) enclosed with RCC from Flash mixer to Clarifier	65	Mtr.		0.00	0.00	0.00	INR Zero Only
86.14	600 NB (12.5 mm thk.) Motor MS ERW Fe 410 grade pipe as per IS: 3589	30	Mtr.		0.00	0.00	0.00	INR Zero Only
86.15	900 NB 17.5 mm thk. MS ERW Fe 410 grade pipe as per IS: 3589	120	Mtr.		0.00	0.00	0.00	INR Zero Only
86.16	PIPE: SMLS,ASTM A312TP304/ EFW,STR.WELD,ASTM A312 TP304							
86.17	25NB SS 304 Sch 40 pipe from IA terminal point at LSTK Silo Area to Dyke Area Silo Area Air receiver and Air Receiver to Knife Gate Valve with SS fittings as required	520	Mtr.		0.00	0.00	0.00	INR Zero Only
86.18	PIPE: CPVC PIPE AS PER GIVEN SPECIFICATION.							
86.19	25 NB PN 6 CPVC Pipe with same rating Fittings & Flanes as required	250	mtr		0.00	0.00	0.00	INR Zero Only
86.20	40NB PN 6 CPVC Pipe with same rating Fittings as required from Chemical tanks to Flash mixer / Parshall flume / Drain	160	Mtr.		0.00	0.00	0.00	INR Zero Only
86.21	50NB PN 6 CPVC Pipe with same rating Fittings as required from Chemical tanks to Recovery water sump	160	Mtr.		0.00	0.00	0.00	INR Zero Only
87	UNDER GROUND(U-G) PIPING WORKS:							
88	EARTHWORK							
88.01	Excavation of trenches for pipelines in all kinds of soil including soft and hard rock mixed in nature both dry and wet conditions including dressing of sides and bottom getting out excavated material in the approved dump yard in all leads of 100 meter including spreading and leveling as per instruction of owner	100	M ³		0.00	0.00	0.00	INR Zero Only
88.02	Same as above but lift from 1.5 Mtr.to 3.0 Mtr.	300	M ³		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
88.03	Providing and filling with fine river sand in trenches a layer of 150 mm from BOP(Bottom of pipe) and 200 mm top of pipes(In case of pipe size>24" NB) and for pipe<24" filling of sand in trenches shall be 150mm from BOP and 100 mm from top of pipe including watering, ramming, consolidating and complete dressing.	300	M ³		0.00	0.00	0.00	INR Zero Only
88.04	Filling with available earth excavated without stones & unwanted materials in the trenches in layer other than Sr. No. 88.03. In depth consolidation each deposited layer by ramming and watering all complete.	400	M ³		0.00	0.00	0.00	INR Zero Only
88.05	Removal or excess excavated materials after back filling of trenches from site of work to other area in factory premises, as directed by owner and spreading and leveling the same.	600	M ³		0.00	0.00	0.00	INR Zero Only
88.06	Cutting and disposal of RCC, PCC and paved surface at all level other than Sr. No. 88.01 & Sr. No. 88.02.	400	M ³		0.00	0.00	0.00	INR Zero Only
89	FABRICATION & ERECTION OF UNDERGROUND PIPING							
89.01	Transportation of materials to work site such as pipes, valves, fittings, etc., from Contractor's shop/site. Piping fabrication, Primer/Painting, rubber lining as per NIT spec, Pickling & Passivation, consumables, laying of U/G piping, laying of U/G piping inclusive of Casing pipes for Road Crossing, Casting of civil sleeper supports/Padestel, inter-connection with the existing system/unit, RCC cutting, PCC dismantling/cutting, excavation, backfilling, sand filling, compaction, NDT except RT as per given in SOR, hydro test of piping & other works related to UG piping to complete the system in all respect is in scope of contractor. The cost towards radiography only shall be paid separately as per SOR. Unit rates shall include the cost of supervision, labour, overheads/profits, consumables, and other associated arrangements required to execute all the related activities.							
89.02	200 NB, 6.35 thk. MS ERW Fe 410 grade pipe as per IS: 3589 enclosed with RCC / CI Class D Pipe from Clarifier to Sludge Sump	24	Mtr		0.00	0.00	0.00	INR Zero Only
89.03	300 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589 enclosed with RCC for Pump Suction from Water Sumps	24	Mtr		0.00	0.00	0.00	INR Zero Only
90.0	PRE-FABRICATED PIPING (VENDOR SUPPLIED):							
91	ERECTION OF PRE-FABRICATED PIPING (VENDOR SUPPLIED)							

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
91.01	Transportation of prefabricated spools from Owner/ Consultant's storage point to work site/shop including from shop to work site, cleaning, stacking, collecting from painting Contractor's shop, erection by bolting/screwing, making necessary scaffoldings at all elevations, welding, primer and painting, supporting , hydro-testing/pneumatic testing, flushing & blowing, seal/leak testing and ready for commissioning as per drawings, specifications, standards, codes, instructions of Owner/Consultant and scope of work defined in Tender.							
91.02	Bidders shall quote the erection rate in Rupees per M.T. include the cost of labour, supervision, overheads/profits, and temporary supports, primer & painting wherever required. Materials which are in Contractor's scope, consumables, conditions listed in preamble to Schedule of Rates and other associated arrangements required to execute all the related activities. However, piping with field joint connection payment shall be made on No. of joint basis as per SOR Cl.No. 8.2							
91.03	The prefabricated spools may be supplied in 100 mm extra at each field weld joints for adjustments.Cutting of extra length on prefabricated spools as per site requirement,beveling and edge preparation as per standard shall also be included as part of this activity.							
91.04	A. PIPING ≤ 2" SIZE							
91.05	Carbon Steel	1.0	MT.		0.00	0.00	0.00	INR Zero Only
91.06	Stainless Steel	0.2	MT.		0.00	0.00	0.00	INR Zero Only
91.07	B.PIPING > 2" SIZE							
91.08	Carbon Steel	1.0	MT.		0.00	0.00	0.00	INR Zero Only
91.09	Stainless Steel	0.2	MT.		0.00	0.00	0.00	INR Zero Only
91.10	FIELD WELDING OF PRE-FABRICATED PIPING JOINTS(VENDOR SUPPLIED):							
91.11	The field welds for piping shall be as indicated below and in the scope of this contract shall be done as per markings on drawings. Making necessary scaffoldings at all elevations & Welding shall include all examination and inspection required, such as but not limited to DP, radiograph, ultrasonic, magnaflux/dye check etc. and pre and post weld heat treatment wherever required.							

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
91.12	Rates shall also include the cost of supervision, labour, overloads/profits, primer/painting, NDT, materials which are in the Contractor's scope. Consumables, conditions listed in preamble to Schedule of Rates and other associate arrangements required executing all the related activities. The rates quoted shall be per joint basis.							
91.13	PIPE MATERIAL: CARBON STEEL							
91.14	25 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	5	No. of joints		0.00	0.00	0.00	INR Zero Only
91.15	50 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	10	No. of joints		0.00	0.00	0.00	INR Zero Only
91.16	100 NB MS ERW Heavy Grade Pipe as per IS: 1239 (Part I)	5	No. of joints		0.00	0.00	0.00	INR Zero Only
91.17	200 NB, 6.35 thk. MS ERW Fe 410 grade pipe as per IS: 3589 enclosed with RCC / CI Class D Pipe from Clarifier to Sludge Sump	5	No. of joints		0.00	0.00	0.00	INR Zero Only
91.18	200 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589 for Pump discharge up to the discharge point	10	No. of joints		0.00	0.00	0.00	INR Zero Only
91.19	300 NB, 6.4 thk. MS ERW Fe 410 grade pipe as per IS: 3589 for Pump Suction from Water Sumps	5	No. of joints		0.00	0.00	0.00	INR Zero Only
91.20	300 NB (9.52mm thk.) MS ERW Fe 410 grade pipe as per IS: 3589 for Slurry disposal into Ash Dyke	10	No. of joints		0.00	0.00	0.00	INR Zero Only
91.21	600 NB, 8 thk. MS ERW Fe 410 grade pipe as per IS: 3589 (Rubber lined inside) enclosed with RCC from Flash mixer to Clarifier	5	No. of joints		0.00	0.00	0.00	INR Zero Only
91.22	PIPE MATERIAL : STAINLESS STEEL							
91.23	1" 33.4 Sch.40S	30	No. of joints		0.00	0.00	0.00	INR Zero Only
91.24	1 1/2" 48.3 Sch.40S	10	No. of joints		0.00	0.00	0.00	INR Zero Only
91.25	2" 60.3 Sch.10S	10	No. of joints		0.00	0.00	0.00	INR Zero Only
91.26	PIPE: CPVC PIPE AS PER GIVEN SPECIFICATION.							
91.27	40NB PN 6 CPVC Pipe	10	No. of joints		0.00	0.00	0.00	INR Zero Only

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Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNPM/PC-183/E/206/NCB

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91.28	50NB PN 6 CPVC Pipe	10	No. of joints		0.00	0.00	0.00	INR Zero Only
92	ERECTION OF VALVES(SPECIFICATION AS GIVEN IN SUPPLY ITEMS)							
92.01	Transportation from Owner/ Consultant's storage points to shop/site, (including testing of all kind of valves/ PSV/TSV and setting of safety valves but excluding testing of control valves which shall be issued from Owner/ Consultant's stores or instrument contractor's shop/stores), making necessary scaffoldings at all elevations, installation in position by threading, bolting or welding as per drawings, specifications, standards / codes, instructions of Owner/Consultant and scope of work defined in NIT. Welding shall include all the examination and inspection required such as but not limited to radiography, ultrasonic, magnaflux, dye check etc, pre and post heat-treatment wherever required.							
92.02	The cost towards radiography shall be paid separately as per Cl. 11.0 of Schedule of Rates, whereas the cost of all other tests is included in the rates quoted as per Schedule of Rates. Rates shall also include the cost of supervision, labour, Overhead / profits, consumables, statutory approval and conditions listed in preamble to Schedule of Rates and other associated arrangements required to execute all the related activities. The quoted rates shall also include tightening of gland packing, lapping and bonnet flange of valves if required during hydro-testing of piping. If any leakage or pressure drop found during testing in Valves/PSV,s then contractor will replace the Valves/ PSV's with repair without any extra cost to owner.							
92.03	FLANGED/SCREWED VALVES							
92.04	Up to 1.5"	40	No		0.00	0.00	0.00	INR Zero Only
92.05	2" to 4"	50	No		0.00	0.00	0.00	INR Zero Only
92.06	6" to 8"	5	No		0.00	0.00	0.00	INR Zero Only
92.07	10" to 12"	20	No		0.00	0.00	0.00	INR Zero Only
92.08	14" to 16"	2	No		0.00	0.00	0.00	INR Zero Only
92.09	24" to 36"	10	No		0.00	0.00	0.00	INR Zero Only
92.10	SW/BW VALVES							
92.11	Up to 3/4"	20	No		0.00	0.00	0.00	INR Zero Only
92.12	1" TO 1 1/2"	10	No		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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92.13	2" to 4"	10	No		0.00	0.00	0.00	INR Zero Only
92.14	6" to 8"	10	No		0.00	0.00	0.00	INR Zero Only
92.15	10" to 12"	10	No		0.00	0.00	0.00	INR Zero Only
93.00	NOTES:							
93.01	WAFER TYPE VALVES shall be treated as flanged valves							
93.02	Above includes valves of all materials, rating, IBR/Non IBR.							
93.03	Above includes all types of valves.							
93.04	Rates are inclusive of Installation/Removal of Control valves or any other type of valve during Pressure Testing/Testing. No extra payment will be made for the same.							
94	PIPE SUPPORTS							
95	SUPPLY, FABRICATION & ERECTION OF PIPE SUPPORTS							
95.01	Supply & Fabrication & Erection of pipe supports as per drawings, standards, Specifications, NIT conditions & instructions of Owner/Consultant. The rate shall include the cost of materials consumables, surface preparation & application of primer and painting, labour & overheads/profits etc.The rate shall include cost of erection as part of piping, welding (including dissimilar welding), labour, consumables, application of finish paint, casting of civil padstel for trunion supports, casting of civil sleeper supports for piping, overheads/profits etc to complete all related activities as per NIT and instruction of Owner/ Consultant.							
96	MATERIAL OF CONSTRUCTION							
96.01	PS 1 - Means carbon steel supports.							
96.02	PS 2 - Means alloy steel supports (Alloy steel parts of supports only)Material supplied by clients							
96.03	PS 3 - Means stainless steel supports (SS parts of Support only) Material supplied by clients							
96.04	PS 4 - PUF supports							
96.05	PS 5 - Means Turn buckles (Forged)							
96.06	PS 6 - Means Spring support							
96.07	PS 1	6	MT		0.00	0.00	0.00	INR Zero Only
96.08	PS 3	1	MT		0.00	0.00	0.00	INR Zero Only
96.09	PS 5	0.5	MT		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNPM/PC-183/E/206/NCB

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97	Note :							
97.01	Irrespective of whether pipe supports and/or pipe support materials are supplied by Contractor or Vendor, all fasteners such as bolts, studs, nuts, washers etc., are to be supplied by Contractor at his own cost.							
97.02	Welding for supports shall include preheating and all tests (excluding radiography , which shall be paid separately) such as dye- penetrent test, hardness test etc. as required by standards, codes, specifications and instructions of Owner/Consultant.							
97.03	Turn buckles shall be as per Engineering Standard							
98	STRUCTURAL STEEL WORKS							
98.01	All structural work under this enquiry has been divided in to two categories:							
98.02	CATEGORY-A : Equipment platforms , valve operating platforms, ladders and hand railing (but excluding gratings) and any other additional equipment supports, if required , to be fabricated including primer and final painting as per clour coding at site.							
98.03	CATEGORY-B : Galvanized Gratings (35 mm)							
98.04	The rates for above items shall be quoted for supply, fabrication and Erection as per the format below.							
99	Supply, Fabrication & Erection of Steel Structure							
99.01	Structural steel is also to be arranged and supplied by CONTACTOR.							
99.02	The rate shall include cost of preparation, submission and obtaining approval of fabrication drawings from CONSULTANT, labour, materials, consumables, surface preparation & application of primer and final painting, tools & tackles and other associated arrangement required to execute all the related activities. The cost shall also include cost of bolts, nuts, washers and anchor bolts. The rate shall include cost of withdrawal and transportation from OWNER/CONSULTANT'S stores /storage yard (if prefabricated structurals issued by OWNER/CONSULTANT) or from his own stores/ shop to place of erection, grouting etc.							
99.03	CATEGORY-A	2	MT		0.00	0.00	0.00	INR Zero Only

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Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNPM/PC-183/E/206/NCB

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99.04	CATEGORY-B	1	MT		0.00	0.00	0.00	INR Zero Only
100	Note:							
100.01	Prior approval shall have to be obtained from OWNER/CONSULTANT, in writing for making a change in sections due to non-availability of certain sections or using built-up section, compound sections, for fabrication of built-up compound sections either recommended by CONSULTANT or CONTRACTOR, no extra payment shall be made.							
100.02	For hand railing under clause 10.b.1 pipes shall also be supplied by CONTRACTOR including primer & final painting as per colour coding.							
100.03	During execution of piping etc. gratings may have to be cut and the same shall be repaired by cold galvanization (Zinc spray) of thickness 80 microns after proper surface preparation. This activity shall be deemed covered within the unit rate of erection of grating and nothing extra shall be paid for this.							
101	RADIOGRAPHY (GAMMA RAY) :							
101.01	The unit rate shall include cost of radiograph viewer and films, consumables, scaffolding, manpower, overheads/profits etc. Payment shall be made only for those films after examination for joints found acceptable as per codes, standards & NIT. Films for defective joints shall not be paid. Overlapping Length of radiography film is not payable.							
101.02	At outside, the place of erection using film size							
101.03	3" wide film	100	Inches		0.00	0.00	0.00	INR Zero Only
101.04	4" wide film	100	Inches		0.00	0.00	0.00	INR Zero Only
101.05	In-situ (Erected position) using							
101.06	3" wide film	100	Inches		0.00	0.00	0.00	INR Zero Only
101.07	4" wide film	100	Inches		0.00	0.00	0.00	INR Zero Only
102	NOTES:							

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Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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102.01	Length and width of film to be used which shall be decided by Owner before execution of radiography.							
102.02	As a guide line the radiography film shall be used as below: -							
102.03	3" wide film shall be used up to 4" dia pipes							
102.04	4" wide film shall be used above 4" dia pipes							
102.05	Payment shall be made on the basis of weld length radiographed & for those joints which are found acceptable.							
102.06	Length of radiographed film shall be calculated (O.D. x 3.14) in inch.							
103	DELETED							
104.00	MATERIAL HANDLING WORKS (SUPPLY & ERECTION) (PART- V)							
105.00	PART-A : SUPPLY OF MATERIAL HANDLING ITEMS							
106	Motors							
106.01	Supply of Motors with all accessories, as specified in data sheets, Technical Specification - Electrical, Technical Specification attached with the NIT - 37 kW Motor for Conveyor # BC-1/1A	2	Nos.		0.00	0.00	0.00	INR Zero Only
106.02	Supply of Motors with all accessories, as specified in data sheets, Technical Specification - Electrical, Technical Specification attached with the NIT - 18 kW Motor For Movable Conveyor # MBC-1/1A	2	Nos.		0.00	0.00	0.00	INR Zero Only
107	Gear Box with intergral holdback							
107.01	Supply of Bevel Helical Type gear Box for 37kw motor.	2	Nos.		0.00	0.00	0.00	INR Zero Only
107.02	Supply of Bevel Helical Type gear Box for 18kw motor.	2	Nos.		0.00	0.00	0.00	INR Zero Only
108	Coupling & Brake							
108.01	LS Coupling	4	Nos.		0.00	0.00	0.00	INR Zero Only
108.02	HS Coupling for LT Motor	4	Nos.		0.00	0.00	0.00	INR Zero Only
108.03	Hydraulically operated Thrustor Brakes	4	Nos.		0.00	0.00	0.00	INR Zero Only
109	Belting							
109.01	HD NN-400/3 (M-24) for 650mm belt width Top Cover: 5mm and Bottom Cover: 2mm	715	mtr		0.00	0.00	0.00	INR Zero Only

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110	Pulley with Lagging / Bearing & Plummer Block							
110.01	Drive Pulley (Φ 400mm x 750 Face width x 1200 Bearing Crs. X 12 thk. shell) with Lagging 10mm (4mm ceramic+6mm rubber)	4	Nos.		0.00	0.00	0.00	INR Zero Only
110.02	Non Pulley (Φ 315mm x 750 Face width x 1200 Bearing Crs. X 10 thk. shell) with lagging 10 mm (plain) natural rubber	14	Nos.		0.00	0.00	0.00	INR Zero Only
110.03	Deflector Pulley (Φ 189mm x 750 Face width x 1200 Bearing Crs. X 6 thk. shell) with lagging 6 mm (plain) natural rubber	4	Nos.		0.00	0.00	0.00	INR Zero Only
111	Idlers							
111.01	Carrying Idlers for 650mm belt width	248	Nos.		0.00	0.00	0.00	INR Zero Only
111.02	S.A.C Idler for 650mm Belt	30	Nos.		0.00	0.00	0.00	INR Zero Only
111.03	10° Tr. Transition idler for 650mm Belt	4	Nos.		0.00	0.00	0.00	INR Zero Only
111.04	20° Tr. Transition idler for 650mm Belt	4	Nos.		0.00	0.00	0.00	INR Zero Only
111.05	Impact Idlers for 650mm belt width	16	Nos.		0.00	0.00	0.00	INR Zero Only
111.06	Flat Return Idlers for 650mm belt width	90	Nos.		0.00	0.00	0.00	INR Zero Only
111.07	S.A.C Return Idler for 650mm Belt width	10	Nos.		0.00	0.00	0.00	INR Zero Only
111.08	Self-cleaning type rubber disc for 650mm Belt width	2	Nos.		0.00	0.00	0.00	INR Zero Only
112	Belt Scraper							
112.01	Primary Belt Cleaner	4	Nos.		0.00	0.00	0.00	INR Zero Only
112.02	Multi bladed Type Secondary Belt	4	Nos.		0.00	0.00	0.00	INR Zero Only
112.03	V-Plow type cleaner	4	Nos.		0.00	0.00	0.00	INR Zero Only
113	Safety Switches							
113.01	Pull Cord Switches	10	Nos.		0.00	0.00	0.00	INR Zero Only
113.02	Belt Sway Switches	6	Nos.		0.00	0.00	0.00	INR Zero Only
113.03	Zero Speed switch	2	Nos.		0.00	0.00	0.00	INR Zero Only
113.04	Electronic Hooter with flash light	4	Nos.		0.00	0.00	0.00	INR Zero Only

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Contract No: PNP/PC-183/E/206/NCB

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114	Conveyor Technological Structure							
114.01	Head Frame	4	Nos.		0.00	0.00	0.00	INR Zero Only
114.02	Tail Frame	4	Nos.		0.00	0.00	0.00	INR Zero Only
114.03	Bend Frame	4	Nos.		0.00	0.00	0.00	INR Zero Only
114.04	Drive Base Frame	4	Nos.		0.00	0.00	0.00	INR Zero Only
114.05	Take-up frame & Support with counter weight (C.I.)	2	Nos.		0.00	0.00	0.00	INR Zero Only
114.06	Stringer & Short Support	47250	Kg		0.00	0.00	0.00	INR Zero Only
114.07	Safety Guard	4	Nos.		0.00	0.00	0.00	INR Zero Only
114.08	Skirt Board	4	Nos.		0.00	0.00	0.00	INR Zero Only
114.09	Chute	4	Nos.		0.00	0.00	0.00	INR Zero Only
114.10	Interconnecting Chute	4	Nos.		0.00	0.00	0.00	INR Zero Only
114.11	Hardware	10	kg		0.00	0.00	0.00	INR Zero Only
115	Hydraulic Cylinder (Cap. 1.5 ton x 2800mm stroke x 180 bar Pressure)	2	Nos.		0.00	0.00	0.00	INR Zero Only
116	Structure Tyre mounted Movable belt conveyor with hydraulic cylinder	2	Nos.		0.00	0.00	0.00	INR Zero Only
117	Front End Loader (Min. 2.7cum bucket)	2	Nos.		0.00	0.00	0.00	INR Zero Only
118	Electric Hoist (1.5T capacity)	4	Nos.		0.00	0.00	0.00	INR Zero Only
119	Manual Hoist (1.0T capacity)	2	Nos.		0.00	0.00	0.00	INR Zero Only
120	SILO SYSTEM							
120.01	Pressure Relief Access Door - Ash Silo	2	Nos.		0.00	0.00	0.00	INR Zero Only
120.02	Silo Adaptor for Ash Silo - MS plate (IS: 2062 Grade A/B) fabricated from 10mm thk.	5	Nos.		0.00	0.00	0.00	INR Zero Only
120.03	Vibrating Feeder - Ash Silo	1	No.		0.00	0.00	0.00	INR Zero Only
120.04	Pressure Relief Access Door - Slag Silo	2	Nos.		0.00	0.00	0.00	INR Zero Only
120.05	Silo Adaptor for Slag Silo - MS plate (IS: 2062 Grade A/B) fabricated from 10mm thk.	5	Nos.		0.00	0.00	0.00	INR Zero Only
120.06	Vibrating Feeder - Slag Silo	1	No.		0.00	0.00	0.00	INR Zero Only
120.07	1 Cum cap MS Fabricated Air Receiver as per Indian Code / American Code	1	No.		0.00	0.00	0.00	INR Zero Only

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121	LIFTING SYSTEM							
121.01	3 T Elec. hoist for silo top - Lift 20 mtrs.	2	Nos.		0.00	0.00	0.00	INR Zero Only
121.02	2 T Elec. hoist for Chemical House	1	Nos.		0.00	0.00	0.00	INR Zero Only
121.03	2 T manual hoist for silo platform - Lift 10 mtrs.	2	Nos.		0.00	0.00	0.00	INR Zero Only
121.04	50 Sq. Bar	250	m		0.00	0.00	0.00	INR Zero Only
121.05	DSL for EOT Cranes - Length of buildings	250	m		0.00	0.00	0.00	INR Zero Only
121.06	Current Collector - 1 Set per EOT Crane	2	Nos.		0.00	0.00	0.00	INR Zero Only
121.07	Trailing Cable for Electric Hoist - 3 Hoists with 15 mtr travel length of each hoist	60	m		0.00	0.00	0.00	INR Zero Only
122	SPARE							
123.00	Supply of spares of following equipments							
124	Conveyors System							
124.01	Pulleys							
124.02	Head Pulley for conveyors	1	No.		0.00	0.00	0.00	INR Zero Only
124.03	Tail Pulley for conveyors	1	No.		0.00	0.00	0.00	INR Zero Only
124.04	Snub Pulley for conveyors	1	No.		0.00	0.00	0.00	INR Zero Only
124.05	Bend Pulley for conveyors	1	No.		0.00	0.00	0.00	INR Zero Only
124.06	Take-up Pulley for conveyors	1	No.		0.00	0.00	0.00	INR Zero Only
124.07	Plummer Blocks							
124.08	Plummer block with bearing for Head Pulley	2	Nos.		0.00	0.00	0.00	INR Zero Only
124.09	Plummer block with bearing for Tail Pulley	2	Nos.		0.00	0.00	0.00	INR Zero Only
124.10	Plummer block with bearing for Snub Pulley	2	Nos.		0.00	0.00	0.00	INR Zero Only
124.11	Plummer block with bearing for Bend Pulley	2	Nos.		0.00	0.00	0.00	INR Zero Only
124.12	Plummer block with bearing for Take-up Pulley	2	Nos.		0.00	0.00	0.00	INR Zero Only
124.13	Rollers							
124.14	Carrying Rollers for conveyors	30	Nos.		0.00	0.00	0.00	INR Zero Only
124.15	Return Rollers for conveyors	10	Nos.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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SCHEDULE OF RATE (Rev. 1) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)								
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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
124.16	Impact Rollers for conveyors	10	Nos.		0.00	0.00	0.00	INR Zero Only
124.17	Guide roller for self-aligning idler	10	Nos.		0.00	0.00	0.00	INR Zero Only
124.18	Idlers (complete set with bracket)							
124.19	Carrying Idlers for conveyors	25	Nos.		0.00	0.00	0.00	INR Zero Only
124.20	Return Idlers for conveyors	10	Nos.		0.00	0.00	0.00	INR Zero Only
124.21	S.A Carrying Idlers for conveyors	6	Nos.		0.00	0.00	0.00	INR Zero Only
124.22	10° Tr. Transition idler	1	No.		0.00	0.00	0.00	INR Zero Only
124.23	20° Tr. Transition idler	1	No.		0.00	0.00	0.00	INR Zero Only
124.24	S.A Return Idlers for conveyors	2	Nos.		0.00	0.00	0.00	INR Zero Only
124.25	Impact Idlers for conveyors	5	Nos.		0.00	0.00	0.00	INR Zero Only
124.26	Self-cleaning type rubber disc idler	1	No.		0.00	0.00	0.00	INR Zero Only
124.27	Couplings							
124.28	Coupling	2	Each		0.00	0.00	0.00	INR Zero Only
124.29	Gear Box							
124.30	Gear Box	1	Each		0.00	0.00	0.00	INR Zero Only
125	ERECTION, TESTING & COMMISSIONING OF MATERIAL HANDLING ITEMS (PART-B)							
126	Motors -Loading, Unloading, transportation, Erection, Testing & Commissioning and all other relevant electrical items as per TS ATTACHED IN TENDER.& other associated work if any.							
126.01	Erection of Motors with all accessories, as specified in data sheets, Technical Specification - Electrical, Technical Specification attached with the NIT - 37 kW Motor for Conveyor # BC-1/1A (2 nos)	900	kg.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
126.02	Erection of Motors with all accessories, as specified in data sheets, Technical Specification Electrical, Technical Specification attached with the NIT - 18 kW Motor For Movable Conveyor # MBC-1/1A (2 nos)	600	kg.		0.00	0.00	0.00	INR Zero Only
127	Gear Box with intergral holdback -Loading, Unloading, transportation, Erection, Testing & Commissioning and all other relevant electrical items as per TS ATTACHED IN TENDER.& other associated work if any.							
127.01	Erection of Bevel Helical Type gear Box for 37kw motor. (2 nos)	1600	kg.		0.00	0.00	0.00	INR Zero Only
127.02	Erection of Bevel Helical Type gear Box for 18kw motor. (2 nos)	1200	kg.		0.00	0.00	0.00	INR Zero Only
128	Coupling & Brake -Loading, Unloading, transportation, Erection Testing & Commissioning							
128.01	LS Coupling (4 nos)	800	kg.		0.00	0.00	0.00	INR Zero Only
128.02	HS Coupling for LT Motor (4 nos)	1000	kg.		0.00	0.00	0.00	INR Zero Only
128.03	Hydraulically operated Thrustor Brakes (4 nos)	600	kg.		0.00	0.00	0.00	INR Zero Only
129	Belting -Loading, Unloading, transportation, Erection, Testing & Commissioning and all other relevant as per TS ATTACHED IN TENDER.& other associated work if any.							
129.01	HD NN-400/3 (M-24) for 650mm belt width Top Cover: 5mm and Bottom Cover: 2mm (715 mtr)	10010	kg.		0.00	0.00	0.00	INR Zero Only
130	Pulley with Lagging / Bearing & Plummer Block -Loading, Unloading, transportation, Erection, Testing & Commissioning and all other relevant as per TS ATTACHED IN TENDER.& other associated work if any.							
130.01	Drive Pulley (Φ 400mm x 750 Face width x 1200 Bearing Crs. X 12 thk. shell) with Lagging 10mm (4mm ceramic+6mm rubber) (4 nos)	1000	kg.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST @ 18% in RS. P	TOTAL AMOUNT Incl. All taxes & duties (Excl. GST) in Rs. P	TOTAL AMOUNT Incl. All taxes , duties and GST in Rs. P	TOTAL AMOUNT Incl. All taxes, duties and GST In Words
130.02	Non Pulley (Φ 315mm x 750 Face width x 1200 Bearing Crs. X 10 thk. shell) with lagging 10 mm (plain) natural rubber (14 nos)	2520	kg.		0.00	0.00	0.00	INR Zero Only
130.03	Deflector Pulley (Φ 189mm x 750 Face width x 1200 Bearing Crs. X 6 thk. shell) with lagging 6 mm (plain) natural rubber (4 nos)	480	kg.		0.00	0.00	0.00	INR Zero Only
131	Idlers -Loading, Unloading, transportation, Erection, Testing & Commissioning and all other relevant as per TS ATTACHED IN TENDER.& other associated work if any.							
131.01	Carrying Idlers for 650mm belt width (248 nos)	10463.12	kg.		0.00	0.00	0.00	INR Zero Only
131.02	S.A.C Idler for 650mm Belt (30 nos)	1925.70	kg.		0.00	0.00	0.00	INR Zero Only
131.03	10° Tr. Transition idler for 650mm Belt (4 nos)	168.76	kg.		0.00	0.00	0.00	INR Zero Only
131.04	20° Tr. Transition idler for 650mm Belt (4 nos)	168.76	kg.		0.00	0.00	0.00	INR Zero Only
131.05	Impact Idlers for 650mm belt width (16 nos)	773.28	kg.		0.00	0.00	0.00	INR Zero Only
131.06	Flat Return Idlers for 650mm belt width (90 nos)	2131.20	kg.		0.00	0.00	0.00	INR Zero Only
131.07	S.A.C Return Idler for 650mm Belt width (10 nos)	616.80	kg.		0.00	0.00	0.00	INR Zero Only
131.08	Self-cleaning type rubber disc for 650mm Belt width (2 nos)	47.36	kg.		0.00	0.00	0.00	INR Zero Only
132	Belt Scraper -Loading, Unloading, transportation, Erection, Testing & Commissioning and all other relevant as per TS ATTACHED IN TENDER.& other associated work if any.							
132.01	Primary Belt Cleaner (4 nos)	400	kg.		0.00	0.00	0.00	INR Zero Only
132.02	Multi bladed Type Secondary Belt (4 nos)	480	kg.		0.00	0.00	0.00	INR Zero Only
132.03	V-Plow type cleaner (4 nos)	480	kg.		0.00	0.00	0.00	INR Zero Only
133	Safety Switches							
133.01	Pull Cord Switches (10 nos)	300	kg.		0.00	0.00	0.00	INR Zero Only
133.02	Belt Sway Switches (6 nos)	180	kg.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

Name of Work: TENDER FOR SUPPLY AND CONSTRUCTION OF ASH POND AND ALLIED SERVICES AT TALCHER FERTILIZERS LTD., ANGUL, ODISHA

Contract No: PNP/PC-183/E/206/NCB

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)**

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133.03	Zero Speed switch (2 nos)	60	kg.		0.00	0.00	0.00	INR Zero Only
133.04	Electronic Hooter with flash light (4 nos)	120	kg.		0.00	0.00	0.00	INR Zero Only
134	Conveyor Technological Structure-Loading, Unloading, transportation, Erection, Testing & Commissioning and all other relevant as per TS ATTACHED IN TENDER.& other associated work if any.							
134.01	Head Frame (4 nos)	600	kg.		0.00	0.00	0.00	INR Zero Only
134.02	Tail Frame (4 nos)	480	kg.		0.00	0.00	0.00	INR Zero Only
134.03	Bend Frame (4 nos)	400	kg.		0.00	0.00	0.00	INR Zero Only
134.04	Drive Base Frame (4 nos)	1200	kg.		0.00	0.00	0.00	INR Zero Only
134.05	Take-up frame & Support with counter weight (2 nos)	2000	kg.		0.00	0.00	0.00	INR Zero Only
134.06	Stringer & Short Support (Lot)	47250	kg.		0.00	0.00	0.00	INR Zero Only
134.07	Safety Guard (4 nos)	320	kg.		0.00	0.00	0.00	INR Zero Only
134.08	Skirt Board (4 nos)	1200	kg.		0.00	0.00	0.00	INR Zero Only
134.09	Chute (4 nos)	4000	kg.		0.00	0.00	0.00	INR Zero Only
134.10	Interconnecting Chute (4 nos)	4000	kg.		0.00	0.00	0.00	INR Zero Only
134.11	Hardware (Lot)	10	kg.		0.00	0.00	0.00	INR Zero Only
135	Hydraulic Cylinder (Cap. 1.5 ton x 2800mm stroke x 180 bar Pressure) (2 nos)	900	kg.		0.00	0.00	0.00	INR Zero Only
136	structure for Tyre mounted Movable belt conveyor with hydraulic cylinder (2 nos)	16000	kg.		0.00	0.00	0.00	INR Zero Only
137	Front End Loader (Min. 2.7cum bucket) (2 nos)	30000	kg.		0.00	0.00	0.00	INR Zero Only
138	Electric Hoist (1.5T capacity) (4 nos)	1680	kg.		0.00	0.00	0.00	INR Zero Only
139	Manual Hoist (1.0T capacity) (2 nos)	700	kg.		0.00	0.00	0.00	INR Zero Only
140	SILO SYSTEM							
140.01	Pressure Relief Access Door - Ash Silo	2	Nos.		0.00	0.00	0.00	INR Zero Only
140.02	Silo Adaptor for Ash Silo - MS plate (IS: 2062 Grade A/B) fabricated from 10mm thk.	5	Nos.		0.00	0.00	0.00	INR Zero Only
140.03	Vibrating Feeder - Ash Silo	1	No.		0.00	0.00	0.00	INR Zero Only

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Tender Inviting Authority: Projects & Development India Limited, Noida

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Contract No: PNPM/PC-183/E/206/NCB

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140.04	Pressure Relief Access Door - Slag Silo	2	Nos.		0.00	0.00	0.00	INR Zero Only
140.05	Silo Adaptor for Slag Silo - MS plate (IS: 2062 Grade A/B) fabricated from 10mm thk.	5	Nos.		0.00	0.00	0.00	INR Zero Only
140.06	Vibrating Feeder - Slag Silo	1	No.		0.00	0.00	0.00	INR Zero Only
140.07	1 Cum cap MS Fabricated Air Receiver as per Indian Code / American Code	1	No.		0.00	0.00	0.00	INR Zero Only
141	LIFTING SYSTEM							
141.01	3 T Elec. hoist for silo top - Lift 20 mtrs.	2	Nos.		0.00	0.00	0.00	INR Zero Only
141.02	2 T Elec. hoist for Chemical House	1	Nos.		0.00	0.00	0.00	INR Zero Only
141.03	2 T manual hoist for silo platform - Lift 10 mtrs.	2	Nos.		0.00	0.00	0.00	INR Zero Only
141.04	50 Sq. Bar	250	m		0.00	0.00	0.00	INR Zero Only
141.05	DSL for EOT Cranes - Length of buildings	250	m		0.00	0.00	0.00	INR Zero Only
141.06	Current Collector - 1 Set per EOT Crane	2	Nos.		0.00	0.00	0.00	INR Zero Only
141.07	Trailing Cable for Electric Hoist - 3 Hoists with 15 mtr travel length of each hoist	60	mtr		0.00	0.00	0.00	INR Zero Only
Total in Figures						0.00	0.00	INR Zero Only
Quoted Rate in Words				INR Zero Only				