

"Schedule of the quantity" cum "Unprice bid format"

Name of the Work: "Construction of site enabling works" for project "1x150 MW BTG package for Hindalco Industries Limited (HIL) Aditya Aluminium at Lapanga, Sambalpur, Odisha.

Tender Ref no. T0AYX00074 dated:29.11.2025

SI No.	Item Description	unit	Quantity	Rate (Rs.)	Amount (Rs)	Weightage %age
	PART A: OPEN YARD WITH FENCING (civil work)					
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	50			0.0031928
2	Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.	Cum	50			0.0168802
3	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge: All kinds of soil	Cum	150			0.0706682
4	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge. All kinds of soil	Cum	200			0.1288010
5	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	Cum	200			0.1888839
6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed as per direction of Engineer-in -charge. Ordinary rock	Cum	75			0.1357580
7	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed as per direction of Engineer-in -charge. Hard rock (Blasting prohibited)	Cum	45			0.2339561
8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	Cum	300			0.2133379

SI No.	Item Description	unit	Quantity	Rate (Rs.)	Amount (Rs)	Weightage %age
9	Supplying and filling sand upto any depth under floors, around foundations, plinths, tank foundations, cable trench filling etc. in layers not exceeding 150 mm thickness and compacted so as to achieve at least 85% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	Cum	150			0.5872026
10	Centering and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases for columns					
10.1	Foundations, footings, bases for columns	Sqm	150			0.2134196
10.2	Columns, piers, abutments, pillars, posts and struts	Sqm	150			0.5231677
11	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	750			0.6156595
12	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.	Sqm	1400			1.1118969
13	Supply and stacking of aggregates					
13.1	Supplying & Stacking at site 90mm to 45mm size coarse aggregate	Cum	350			2.6646923
13.2	Supplying & Stacking at site 63mm to 45mm size coarse aggregate	Cum	300			1.7807730
13.3	Supplying & Stacking at site 53mm to 22.4mm size coarse aggregate	Cum	250			1.6710564
13.4	supply and stacking at site Moorum	Cum	300			0.8362085
14	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled rolled/ vibratory 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening/binding material to fill up interstices of coarse aggregate , watering and compacting to the required density.	Cum	350			1.3294889
15	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, last but one end post and corner post shall be strutted on both sides and end post on one side only and Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm					

SI No.	Item Description	unit	Quantity	Rate (Rs.)	Amount (Rs)	Weightage %age
15.1	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 4 mm)	Sq m	1300			4.8006112
16	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50 m x2.00 m made of 40x40x6 mm angle iron or 50x50x3 mm hollow MS tube posts/horizontal members/bracings covered with 1.63 mm thick MS sheet. The sheet shall be fixed with 30x5 mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5 m. MS channel ISLC 75 @ 5.70 kg/m, 50 cm long shall be provided at the bottom having oval shaped holes of size 50x25 mm at both ends with 50 cm long MS angle 40x40x6 mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250 mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously including shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge. (Note :- One time payment shall be made for providing barricading from start of work till completion of work including shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	metre	60			0.7487508
17	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/ Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. All works upto plinth level					
17.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	Cum	60			1.9233067
17.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	Cum	70			2.2822078
17.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum	65			2.1726327
18	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more	KG	700			0.2739107

Sl No.	Item Description	unit	Quantity	Rate (Rs.)	Amount (Rs)	Weightage %age
19	Supply, fabrication and installing in position and testing MS Gates out of channels, joists, angles, flats, plates, pipes, welded steel wire mesh & sheets including stiffners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, bronze aluminium ball bearing arrangements, castor wheels, paintings etc. all complete. (as per approved design by BHEL Engineer-in-charge)	MT	2			0.5325997
20	Banking excavated earth by mechanical / manual means in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and for all lift : All kinds of soil	Cum	100			0.0718020
21	Filling with available fly ash/Moorum and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer -in-charge, including compacting each layer by rolling/ ramming and watering, all complete as per drawing and direction of Engineer -in - charge.	Cum	300			0.3354630
22	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support Including fittings & fixtures for tank shall be paid separately.	lit	2000			0.0798203
23	Making soak pit 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, 1.8m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1			0.0974602
24	Structural steel works in single section with or without connecting plate, including cutting hoisting and fixing and fixing in position and applying a coat of approved steel primer all complete	MT	1			0.4257688
25	Brick work with common burnt clay modular bricks of class designation N7.5 in foundation and plinth in:					
25.1	Cement mortar 1:4 (1 cement : 4 coarse sand) cum 6504.90	Cum	1			0.0236011
25.2	Cement Mortar 1:6 (1 cement : 6 coarse sand). cum 6295.15	Cum	1			0.0228400
26	Supplying & fixing in position of RCC hume pipe of NP2 450mm dia wherever drain crosses the roads including aligning, levelling etc. complete as per the direction of engineer. including P.C. & including collar joints, encasement with concrete 1:3:6 of 300 mm dia , encasing shall be paid extra under respective items of concrete	metre	70			0.2057187
27	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work					
27.1	15 mm nominal dia Pipes	Metre	25			0.0221955

Sl No.	Item Description	unit	Quantity	Rate (Rs.)	Amount (Rs)	Weightage %age
27.2	20 mm nominal dia Pipes	metre	25			0.0248804
PART-B	CLOSED STORAGE SHED AND INTEGRATED SITE OFFICE					
1	<p>Supply and fixing of external sheet of Permanent colour coated metal cladding with troughed M.S. sheets manufactured out of 0.55 mm TCT (Total coated thickness) permanently colour coated zincalume sheet (150 gsm zinc-aluminium alloy coating total of both sides as per AS 1397:1993) having 300 Mpa yield strength. The colour coating shall comprise of 20 microns finish coat over a 5-micron primer coat on the exposed side and a black coat of 5 microns over a primer coat of 5 micron on the reverse side. The metal cladding shall have 500 mm cover width, 47 mm high crests at 250 mm centers with special male/female side laps and anti siphoning feature to prevent leakage. The sheet shall be fixed with the help of concealed compatible interlocking clips and wafer head zinc cotted self-drilling fastener/screws 4.2X25 mm long on to the sub-girts. The clips shall be concealed, and no fastener are to be penetrate the external sheeting all complete as per specification. Measurement of cladding shall be of the elevation/plan area of side covered by cladding as per approved drawing. No overlap shall be considered in measurement for the purpose of payment.</p> <p>2-Structural steel to be considered as per basic engineer design</p> <p>3. Supply & Providing & fixing in place 4-nos. each of Fire extinguisher 45 Lit. Foam type, 4.5 kg CO2 type & 25 kg DCP type</p> <p>4. Supply & Providing & fixing in place 4-nos. each of Sand Buckets (Stand with 4 buckets in each set)</p> <p>5. Supply & Providing & fixing Electrical fixrures, cabling & other items</p> <p>For 1 no. PEB of size 15 m. X 30 m.</p> <p>as per Chapter no X of TCC No.HY/PE&SD/Projects/TCC/2025-26/HIL/150MW/ Enabling works/01, Rev. 02</p>	set	1.00			12.5199532

SI No.	Item Description	unit	Quantity	Rate (Rs.)	Amount (Rs)	Weightage %age
2	<p>Supply and fixing of external sheet of Permanent colour coated metal cladding with troughed M.S. sheets manufactured out of 0.55 mm TCT (Total coated thickness) permanently colour coated zincalume sheet (150 gsm zinc-aluminium alloy coating total of both sides as per AS 1397:1993) having 300 Mpa yield strength. The colour coating shall comprise of 20 microns finish coat over a 5-micron primer coat on the exposed side and a black coat of 5 microns over a primer coat of 5 micron on the reverse side. The metal cladding shall have 500 mm cover width, 47 mm high crests at 250 mm centers with special male/female side laps and anti siphoning feature to prevent leakage. The sheet shall be fixed with the help of concealed compatible interlocking clips and wafer head zinc cotted self-drilling fastener/screws 4.2X25 mm long on to the sub-girts. The clips shall be concealed, and no fastener are to be penetrate the external sheeting all complete as per specification. Measurement of cladding shall be of the elevation/plan area of side covered by cladding as per approved drawing. No overlap shall be considered in measurement for the purpose of payment.</p> <p>2-Structural steel to be considered as per basic engineer design</p> <p>3. Supply & Providing & fixing in place 4-nos. each of Fire extinguisher 45 Lit. Foam type, 4.5 kg CO2 type & 25 kg DCP type</p> <p>4. Supply & Providing & fixing in place 4-nos. each of Sand Buckets (Stand with 4 buckets in each set)</p> <p>5. Supply & Providing & fixing Electrical fixrures, cabling & other items _-</p> <p>6. Supply, providing & fixing storage racks as per details</p> <p>For 1 no. PEB of size 15 m. X 30 m.</p> <p>as per Chapter no X of TCC No.HY/PE&SD/Projects/TCC/2025-26/HIL/150MW/ Enabling works/01, Rev. 02</p>	set	1.00			13.9956005
3	<p>Design, manufacture, supply & installation of Integrated Site Office as Pre-Engineered Building including wooden partitions, doors, windows & ventilators, sitting cubicals, all furnitures (Sitting tables, side credenza, storage cabinets & Almirahs, tables & chairs for office cabins, cubicals and other office areas, conference room, etc.), Airconditioners, fan, electrical light fittings & wiring, electrical & wi-fi switches & Ports, exhaust fans, all sanitary & plumbing fittings & fixtures in toilet/bath areas, flooring & false ceiling, window curtain/blinds, as per specifications & drawings provided in chapter IX of TCC no. HY/PE&SD/Projects/TCC/2025-26/HIL/150MW/ Enabling works/01, Rev. 02, all complete as per direction & instructions of Engineer-in-charge.</p>	sqm.	329			33.3032515
PART - C	<p>Design, manufacture, supply & installation of various components as per specification provided in chapter XIV of TCC No.HY/PE&SD/Projects/TCC/2025-26/HIL/150MW/ Enabling works/01, Rev. 02 all complete as per direction and instructions of Engineer-in-charge for Setting up of Safety Park</p>	sq metre	75			7.5898504
PART-D	ELECTRICAL AND ILLUMINATION WORK					

SI No.	Item Description	unit	Quantity	Rate (Rs.)	Amount (Rs)	Weightage %age
1	Supply, Instalation and Commissioning of 415 volt AC , 3 phase /four wire power feeder pillar board , board shall be comprises of three number and one number aluminium bus bar for phase & neutral respectively. Bus bar rating shall be 125 Amps and shall be mounted on epoxy insulator of 1.1 kV grade, each bus bar shall have drilled hole for connecting incoming / out going cables, provision for earthing the panel enclosure. Panel enclosure shall be made of sheet metal thichnness not less than 1.6 mm and suitable for out door installation, hinged door with locking arragement, base frame, should have slopped canopy, duly painted with first coat with primer and two coats of synthetic enamel paint (interior with white paint and exterior with smoke grey as per IS), suitable stool made out of MS structure of 1.2 meter high for mounting of panel with anchoring arragement at foundation . Note: Suitable foundationarea of side covered by cladding as per approved drawing. No overlap shall be considered in measurement for the purpose of payment. 2-Structural steel to	NOS	1			1.9139623
2	Supply & Fixing of out door tye metal clad lighting distibution board (LDB) having IP:55 protection with double door type and one incomer with 100A TPN MCCB additionally with 3Nos of 32 Amps TPN ELCBs with 30 mA tripping and timer and contactors for Auto On /off steet lights and 3 indicating lamps with fuse for indicating Bus Supply ON, Digital Voltmeter and VSS-0-500V etc.Suitable Busbar arragement for phase and neutral . Sufficient space should be provided in the removable cable gland plate to accomodate incoming power cable and all outgoing cables.	Nos	2			0.3299935
3	Supply&Installation of weather proof LED Street light Fitting of 150 watt of baja,crompton,Philips or equivalent make,complete with one piece of appropriate driver(integral/non integral) and suitable for directly slipping over light mounting bracket made out of 40mm OD pipe and suitable for lamps,JB,Cabling and termination of Items supplied (To be mounted at Boundary fencing Columns/Angles approx height 5M) . It also includes the following : 1- supply & fixing cables between the JB and light luminariaries 2- supply & Installation mounting fixture with hardware for mounting of light luminariaries	NOS	16			0.6335875
4	Supply & Installation of steel tubular swaged poles 9M Long made of sheet steel having ultimate tesile strength 42Kg F/Sq.mm conforming to BIS:2713 (Part II) Complete with 300 X 300X 6mm thick MS base plate for welding at site and size as per condfiguration given in BIS got 410 SP-28 (113 Kg -Pole weight) with all accessories as per direction and instruction of Engineer-in-charge.	NOS.	2			0.3159704
5	1-Supply & Installation of of Electrical junction box (GI/PVC) of good quality to suit the opening available in above lighting pole,/angle suitable for loop in/loop out of 4cx10sqmm lighiting Circuit cable and outgoing 3Cx1.5 sqmm sheathed wire to lighting fixture and one connector block for 3 phase 4 wire incoming and out going cable to next street light pole with 01 no.6A SP MCB for street light and earthing etc 2- Supply & Installation mounting fixture with hardware for mounting of light luminariaries on fencing Poles/Angles	Nos	16			0.1759965
6	Supply & Installation of 400W LED Flood light luminaries of bajaj,Crompton phillips or equivalent,with appropriate JB integral/Non Integral type including cables for inter connection (these lights shall be mounted on 9M lighting pole)	NOS	2			0.1055979
7	Providing and fixing LED tubelight (22W) with frame of standard manufacturer as approved by BHEL. This includes tube light fittings etc. complete.	NOS.	10			0.0109377
8	Providing and fixing of Industrial wall mounted fan of 18" to 24" diameter of approved company as directed by BHEL.	NOS.	4			0.1372773

SI No.	Item Description	unit	Quantity	Rate (Rs.)	Amount (Rs)	Weightage %age
9	Supply & fixing of Turbo Vent 600 mm Dia. all complete as per specification	NOS.	12			0.1360735
10	Supply of cables 3 -1/2 core x 95 sqmm aluminium armoured PVC insulated cable of approved make confirming to IS 1554 (part -I)/IS 7098(Part -1) respectively along with double compression type brass cable glands, required nos of termination lugs, Jointing kits, straight throughs and suitable glands.	RM	600			0.6673260
11	Supply of cables 4 core x 10 sqmm aluminium armoured pvc insulated cable of approved make confirming to is 1554 (Part -I)/IS 7098(Part -1) respectively along with double compression type brass cable glands, required nos of termination lugs, Jointing kits, straight throughs and suitable glands.	RM	1200			0.4943039
12	Installation of cables 3 -1/2 core x 95 sqmm aluminium armoured PVC insulated cable confirming to IS 1554 (part -I) including laying of cable below ground, excavation of trench of 600 mm depth in all kind of soil, termination of cables cores with crimp type lugs, providing sand layer below/ above the cable, brick laying both side /above the above the cable and back filling etc complete. Cables are to be laid from 415 volt AC distribution board to feeder pillar board.	RM	600			0.4880736
13	Installation of cables 4core x 10 sqmm aluminium armoured pvc insulated cable confirming to is 1554 (Part -I) including laying of cable below ground, excavation of trench of 600 mm depth (minimum) in all kind of soil, termination of cables cores with crimp type lugs, providing sand layer below & above the cable, brick laying both side & above the cable and back filling etc complete.	RM	1000			0.7720528
14	Providing and fixing 8 SWG dia For earthing	RM	100			0.0162031
15	Providing earthing pits with 40 mm dia, 4.5 m long GI earth pipes with flange & GI wires with charcoal, salt and as per the standard practice for electrical connection. Rate shall be inclusive of all materials, labours, etc complete. (as per relevant IS code)	NOS.	2			0.0253754
	Total exculing GST					100.00
Note-1	Bidder to confirm having quoted their price in BHEL NIC portal (https://eprocurebhel.co.in) in the manner described in below, by writing "QUOTED" here					
Note-2	Bidder no need to quote the price here, lumsum Price quoted by bidder in (excel sheet) price bid format in BHEL NIC portal (https://eprocurebhel.co.in) shall be cosidered as the total price of this tender SOQ. Rate and amount against each line item shall be derived from the corresponding weightage assigned against each line item of this SOQ.					
Note-3	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, clause no. 13.0 of the SCC will be					
Note-4	Details of SOQ items shall be read in conjunction with the corresponding specifications, drawings and other tender terms.					